





Designed for the future

# What's new?



#### **BLUEVOLUTION**



#### RXYSA-AV1 / AY1

#### p. 37 Designed for the future

- > Maximum flexibility allowing installation in rooms down to 10 m<sup>2</sup> thanks to Shîrudo technology
- > Top sustainability over the entire lifecycle thanks to low GWP R-32 refrigerant and market-leading real life seasonal efficiency
- > Ergonomic serviceability and handling, thanks to wide access area to easily reach components within low-profile single fan casing
- > Best-in-class design versatility with five sound pressure levels down to 39 dB(A) and automatic ESP setting up to 45 Pa allowing ductwork
- > No leak check needed as in most applications total refrigerant charge is below 7.4 kgs



#### Sound enclosure for VRV5

#### p. 32 EKLN140A

- > Sound reduction up to -10 dB(A) on Sound Power values
- > Dedicated Daikin option for VRV 5 RXYSA
- > Fully optimized and tested in Daikin Factory for guaranteed
- > Very low capacity and pressure drop thanks to separated air intake and discharge
- > Fast and easy installation & servicing



L∞P by Daikin extended to all VRV units produced and sold in Europe\*

#### NEW Reuse refrigerant to avoid more then 250,000 kg p. 6 of virgin gas being produced each year

- > Support the circular economy of refrigerants
- > Make a sustainable choice by promoting units with Certified Reclaimed Refrigerant Allocation
- > Has zero impact on F-gas quota, as reclaimed and reused within Europe
- > Is administratively allocated to VRV units produced and sold in Europe

\*EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



#### Online controller for VRV

#### **NEW** Intuitive online and voice control

- > Can integrate with Amazon Alexa and Google assistant voice control
- > Interfaces with home control systems
- > Available on all new VRV R-32 indoor units









# Maximum flexibility, minimum concern. As it should be.



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#### BLUEVOLUTION

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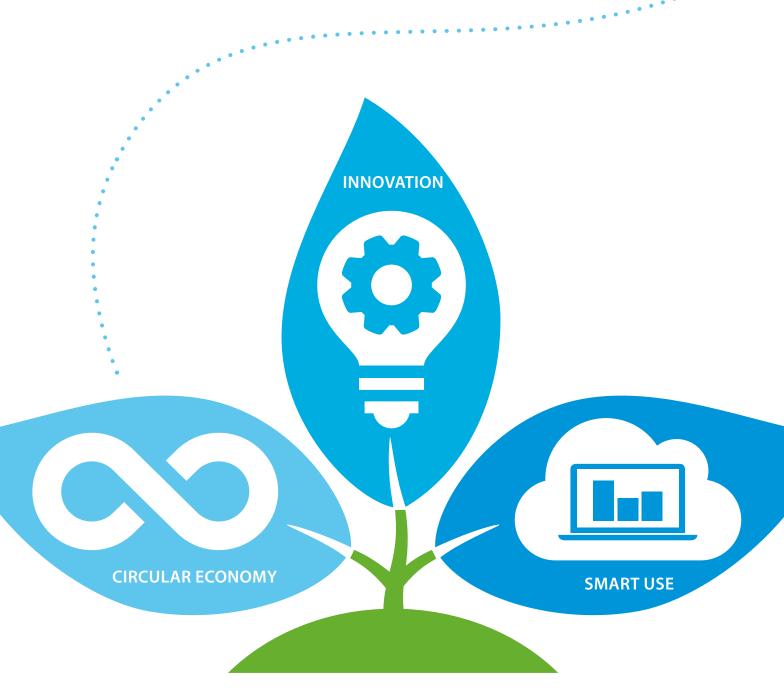
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# Creating a sustainable future together

Determined to reduce our environmental footprint, we aim to be  $CO_2$ -neutral by 2050. A circular economy, innovation and smart use – these are the stepping stones on our path.

The time to act is now. Join us in creating a sustainable future for HVAC-R.



www.daikin.eu/building-a-circular-economy



# Circular economy



#### Towards a circular economy of For VRV units produced and refrigerants

With L∞P by Daikin we want to step away from producing more waste. Instead we will reuse what is already available, in a qualitative way.

In this way we use reclaimed refrigerant and avoid already 250,000 kg of virgin gas being produced each year!

## sold in Europe\*

- > Exclusive to Daikin reclaimed gas is now used in our units
- > Administratively allocated to VRV produced and sold in Europe\*



#### Join us to recover refrigerant and turn waste into an asset

What we have achieved with L∞P by Daikin so far is great and unique in our business, but it is not enough ...

We invite you, our installer network, to recover more so we can roll out L∞P by Daikin towards more refrigerants and more product ranges. There is huge potential in existing installations to make a big leap in the years to come.



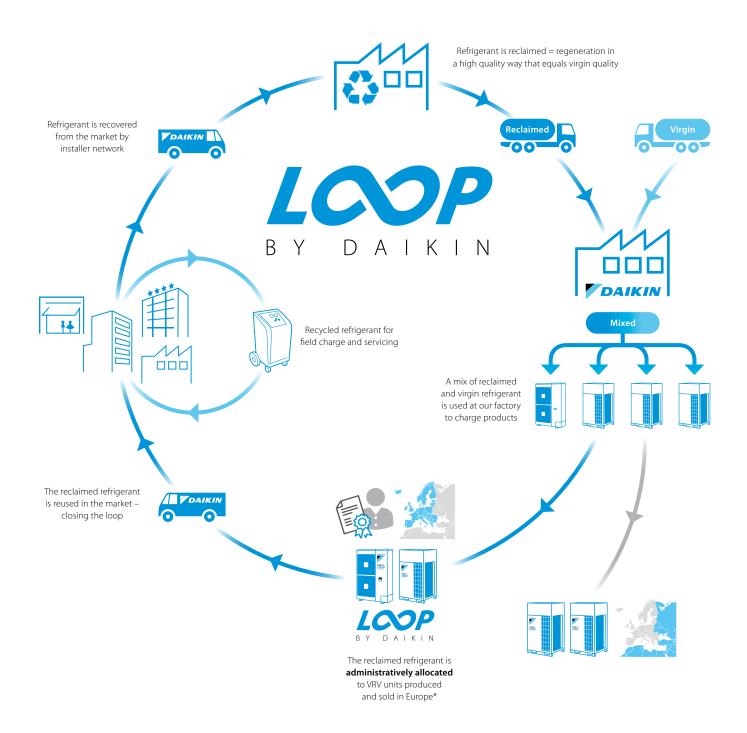
#### Create your own circular economy

We invite you as well to use our refrigerant recovery machine to create your own circular economy for field charge and servicing!

- > Portable unit for easy transport
- > Optimum purification
- > Reuse your refrigerant locally
- \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

# L∞P by Daikin The principle

"L∞P by Daikin means reusing refrigerant and avoids more than 250,000 kg of virgin gas being produced each year."



 $<sup>{\</sup>tt *EU\ member\ states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North\ Macedonia, Iceland, Norway, Switzerland, Montenegro, Mon$ 

#### Reusing certified reclaimed refrigerant

#### External Certified Quality

Reclaimed refrigerant meets AHRI700 certified standards, assessed by an independent laboratory, and so is the same quality as virgin refrigerant.

#### Reclaimed and reused within Europe\*

Reclaimed means the refrigerant is regenerated in a high quality way, in line with the F-gas regulation definition. This means that units with reclaimed refrigerant support the F-gas regulation by recovery and reclaim within the European Union.



#### Certified Allocated Quantity

Virgin and reclaimed refrigerant are used in the Daikin Europe factory. Through an audit process we ensure the reclaimed refrigerant is administratively allocated to the factory charge of VRV units produced and sold in Europe\*.

#### Reclaiming R-410A is just the start

With a huge potential of R-410A available in existing installations, we invite you to join our mission in creating this circular economy. Today for R-410A and for other refrigerants in future.

#### Do these units have 100% Inspired? Here is how you reclaimed refrigerant?

It's not guite that simple. Because when refrigerant is supplied to the factory, the reclaimed refrigerant is mixed with virgin refrigerant on one production line, as they are both of identical quality. Therefore the gas is administratively allocated to VRV units sold in Europe\*.

Meaning that for a VRV unit produced and sold in Europe\*, we use the equivalent amount of certified reclaimed refrigerant to charge units at the factory. This is comparable to a green electricity contract, where you use a mix of conventional as well as renewable produced electricity and the provider allocates administratively 100% renewable produced electricity to your contract.

## can help

- > Make a sustainable choice by promoting L∞P by
- > Raise the awareness and share your expertise to other stakeholders, to build a circular economy
- > **Send your recovered gas** from existing installation to reclaim. Your Daikin contact can support you
- > Use our refrigerant recycling machine to reuse recovered refrigerant for field charge

Find out about Daikin's initiatives to help building a circular economy and visit:

www.daikin.eu/loop-by-daikin

<sup>\*</sup> EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland





# Striving to become the lowest CO<sub>2</sub> equivalent manufacturer





R-410A R-32

R-32

Operation of the state of

100%

#### Introducing the lower GWP refrigerant R-32 on VRV 5

- Offer high real-world seasonal efficiencies
- Variable Refrigerant Temperature for high seasonal efficiency





#### Maximise efficiency 24/7 by deploying unique auto cleaning filters

- Available on the Round flow cassette and concealed ceiling units
- Automatic filter cleaning ensures high efficiencies and low maintenance costs because the filter is always clean

#### 10 class unit for well insulated and smaller rooms

 Minimised energy use and maximum comfort as the indoor is adjusted to the room's capacity need





# Control, monitor and optimize 24/7



#### Rigorously follow up on energy consumption via the Daikin Cloud Service

- > Direct control over your energy use
- Compare with different sites to track abnormalities



# Factor in experts' advice to continuously optimise system efficiency

 Enable predictive maintenance to ensure optimum operation and uptime



#### Stay in control no matter where you are

- > Prevent unneccessary energy use by remote control of your system
- > Intuitve voice control

# reasons why VRV is unique in the market



#### Leader in sustainability

- NEW > VRV 5: Completely new and dedicated R-32 mini VRV design
  - Less refrigerant charge
  - · Higher efficiency
  - Lower CO<sub>2</sub> equivalent
  - > L∞P by Daikin: the creation of a circular economy of refrigerants
  - Saves over 250,000 kgs of virgin refrigerant being produced every year
  - For all VRV units produced and sold in Europe\*

\* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland







#### **Efficiency**

- > Variable Refrigerant Temperature for high seasonal efficiency
- > Round flow cassette and concealed ceiling units with auto cleaning filter
- > The best partner for your BREEAM, LEED or Well project







#### Comfort

- > Provide high Indoor Air Quality though seamless integration of AHU's
- > Variable Refrigerant Temperature preventing cold draughts in cooling thanks to high outblow temperatures
- > True continuous heating during defrost
- > Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
- > Auto cleaning filters to ensure optimum air quality



#### Reliability

- > Refrigerant cooled PCB
- > Most extensive testing before new units leave the factory
- > Widest sales network with all spare parts available in Europe
- > Preventive maintenance via Daikin Cloud Service
- > Auto cleaning filters to further enhance reliability thanks to clean air-filters
- > True technical cooling





#### Design

- > Widest ever range of cassette panels
- Available in white and black
- Sleek designer panel range
- > Daikin Emura, unique iconic design
- > Fully flat cassette, fully integrated in the ceiling



#### Controls

- NEW > Voice control via Amazon Alexa and Google Assistant through BRP069C51 online controller
  - > Madoka: a sleek wired remote controller with intuitive touch button control
  - > Intelligent Touch manager: A cost-effective mini BMS integrating all Daikin products
  - > Easy integration in third party BMS via BACnet, LonWorks, Modbus, KNX
  - > Dedicated control solutions for applications such as technical cooling, shops, hotels, ...
  - > Daikin Cloud Service for online control, energy monitoring, comparison of multiple sites and predictive maintenance



#### Installation

- > Automatic refrigerant charge and refrigerant containment check
- > Unique 4-way blow ceiling suspended cassette (FXUQ)
- > Plug & play Daikin Air Handling Unit
- > VRV configurator software for the fastest commissioning, configuration and customisation
- > Outdoor unit display for quick on-site settings and detailed error readouts for improved customer support





7-segment display

#### Inventor of VRV with nearly 40 years of history

- > Market leader of VRV systems since 1982
- > Over 90 years of expertise in heat pump technology
- > Designed for and produced in Europe
- > Innovator setting the market standard with technologies such as Variable Refrigerant Temperature, continuous heating, Shîrudo technology, ...





#### For every application a solution

- > Heat recovery for simultaneous cooling and heating
- > Maximum flexibility for geothermal applications with water-cooled systems
- > Hot and cold climate solutions offering efficient cooling up to 52°C and heating down to -25°C
- > Space saving mini VRV solutions, offering the most compact VRV
- > The invisible VRV, a unique solution when the outdoor unit must be compact and completely invisible
- > Replacement solutions to replace existing systems in the most cost-effective way



## Which VRV

#### system offers me the best solution?

#### Heat recovery or heat pump? VRV Heat recovery

**Additional** credits for green building certificate



Extracted heat is used to deliver free hot water and heating



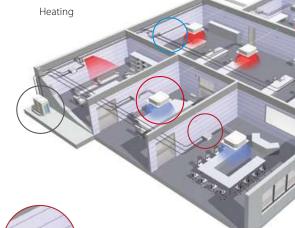






> Simultaneous heating AND cooling from one

- > "Free" heating and hot water production by transferring heat from areas requiring cooling
- > Maximum individual comfort in all areas
- > Technical cooling down to -20°C
- > Running costs of VRV IV heat recovery system can be 30 to 40% lower compared to water fan coil system\*



North

#### **Components:**



Outdoor unit



Indoor unit



3-pipe refrigerant piping



Single and multi BS boxes: allows the individual switching of indoor units between heating and cooling

#### VRV Heat pump

> For either heating **OR** cooling operation from one system

#### **Components:**



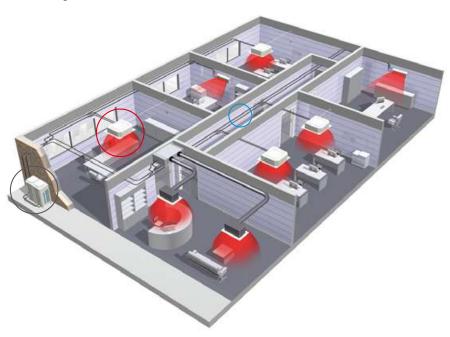
Outdoor unit



Indoor unit



2-pipe refrigerant piping



<sup>\*</sup> According to the Franklin + Andrews construction economics

#### Air cooled or water cooled? Air Cooled

- > Fast and easy to install; no need for additional components
- > Low maintenance costs
- > Operation range from 25°C~52°C
- > Can be installed both outdoors and indoors
- > Up to 54HP capacity for one system

#### Components:



Outdoor unit



Indoor unit



Refrigerant piping



#### Water Cooled

- Suitable for high rise and large buildings because of the nearly unlimited possibilities of water piping
- > Not affected by outdoor temperature/climate conditions
- > Reduce CO<sub>2</sub> emmisions thanks to the use of geothermal energy as a renewable energy source
- > Allows heat recovery in the entire building thanks to the storage of energy in the water circuit
- > Lower refrigerant levels thanks to the limited distance between outdoor and indoor units

#### Components:



Indoor unit



Refrigerant piping



Outdoor unit



(Geothermal) water loop



# VRV total solution

Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into

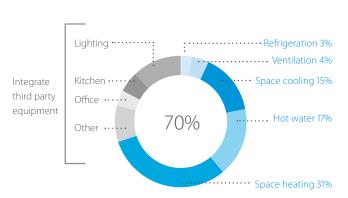
#### a total solution managing up to

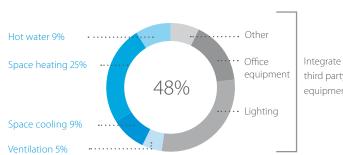
#### of a buildings energy consumption giving large potential to cost saving

- > Heating and cooling for year round comfort
- > Hot water for efficient production of hot water
- > Underfloor heating /cooling for efficient space heating/cooling
- > Fresh air ventilation for high quality environments
- > Air curtains for optimum air separation
- > Controls for maximum operating efficiency
- > Cooling for server rooms, telecom shelters, ... via VRV heat recovery or Sky Air units
- > Refrigeration via our VRV based refrigeration units

#### Average hotel energy consumption

#### Average office energy consumption





# Offices Efficiency in the workplace

"Leading edge design in harmony with the construction and interior design."

Architect



#### Hotel

Energy efficient hospitality for every guest

"With Daikin we could perfectly combine the authenticity of the hotel with the latest technology and comfort."

Owner of a 5-star hotel



# Shops Reducing retail costs

"Together with Daikin's technical team we have optimised the design of our HVAC system, reducing investment levels and operational costs. Daikin has offered us access to the most up to date technology."

Retail shop representative



# Residential

There is no place like home

"A cost effective, low energy consumption heat pump system for home owners, offering maximum comfort"





# benefits & technologies

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Drastically reducing your running costs	18
Top reliability	22
Comfort guaranteed at all times	24
Great design flexibility	26
Fast installation and commissioning, easy servicing	28

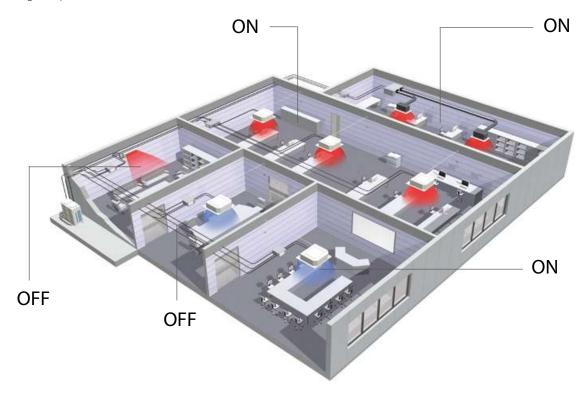
# Drastically reducing running costs

- (+) Innovative technologies to offer market-leading efficiencies
- (+) Flexibility to meet the building load at the highest efficiency

#### Precise zone control

VRV systems have low running costs because it permits each zone to be controlled individually.

That is, only those rooms that require air conditioning will be heated or cooled, while the system can be shut down completely in rooms where no air conditioning is required.



#### **BLUEVOLUTION**

#### Introducing R-32 refrigerant on VRV

- Lower Global Warming Potential (GWP): only 1/3rd of R-410A
- > Lower refrigerant charge: 15% less compared to R-410A
- > Higher energy efficiency
- Single component refrigerant, easy to handle and recycle





#### Variable refrigerant temperature

#### The biggest leap since the inverter compressor

Thanks to its revolutionary variable refrigerant temperature technology (VRT), VRV IV $^+$  continuously adjusts both the inverter compressor speed and the refrigerant temperature in cooling AND heating, providing the necessary capacity to meet the building load with the highest efficiency at all times!

- > Seasonal efficiency increased by 28%
- > The first weather accommodating control on the market
- Customer comfort is assured thanks to higher outblow temperatures (preventing cold draughts)

#### How does it work?

#### **VRF** standard

Capacity is controlled only with the variation of the inverter compressor.

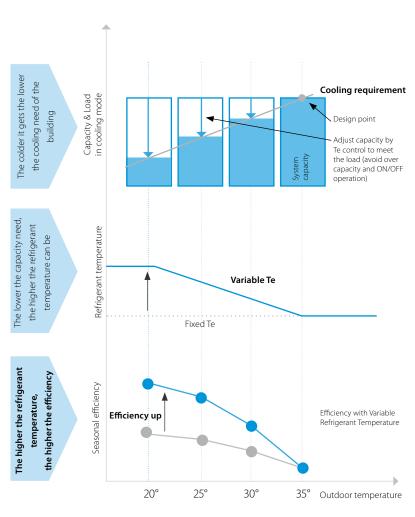
#### Daikin VRV IV+

Variable Refrigerant Temperature control for energy saving in partial load condition.

The capacity is controlled by the inverter compressor and variation of the evaporating (Te) and condensing (Tc) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

Evaporating temperature can vary between 3 and 16° which is the widest on the market.





#### Success story Real test: up to 46% less energy consumed

A field trial was carried out in a shop of a fashion chain in Germany and showed that the innovative Daikin VRV IV delivers dramatically better energy efficiency compared with previous models.

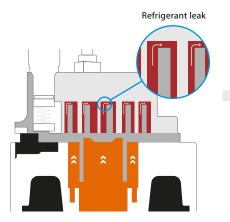
The trial results showed that the new VRV IV system consumed up to 60% less energy than the VRV III system, particularly during cooling. Overall energy savings during heating averaged 20%.

# 37 patents

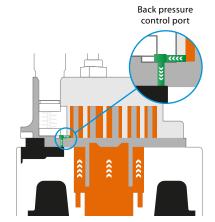
# Inverter scroll compressor with back pressure control

- > Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak from the high to low pressure side
- > Increased partial load efficiency





During low load, weak pressure is applied resulting in refrigerant leakage.

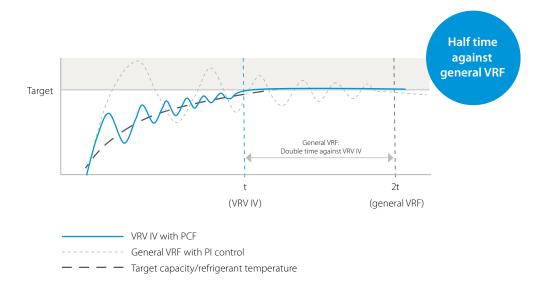


The back pressure control port sends high pressure refrigerant to the back of the scroll ensuring optimum pressure on the scroll.

#### Predictive Control Function (PCF)

- > Reaching targets faster
- > Reaching targets without overshooting, so there is no waste, resulting in improved efficiency

The large number of Daikin systems already in operation and which are monitored by our i-Net software put us in the unique position of being able to analyse this data and develop the predictive control function.



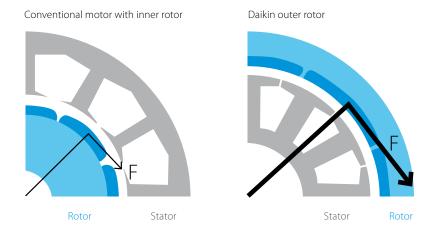
#### DC fan motor

#### Outer rotor DC motor for higher efficiency

- > Larger rotor diameter results in greater force for the same magnetic field, leading to better efficiency
- > Better control, resulting in more fan steps to match the actual capacity

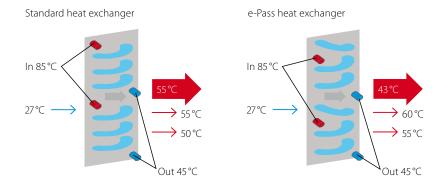
#### Sine wave DC inverter

Optimizing the sine wave curve results in smoother motor rotation and improved motor efficiency.



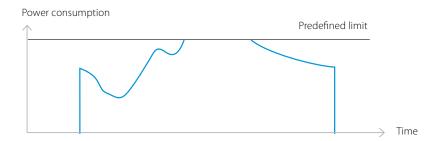
#### E-Pass heat exchanger

Optimising the heat exchanger's path layout prevents heat being transferred from the overheated gas section to the sub-cooled liquid section which is a more efficient way to use the heat exchanger.



#### I-demand function

Limit maximum power consumption. The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.



# Top reliability

- + Most extensive testing before new units leave the factory
- + Designed to perform

# Duty Cycling extends operation life

The cyclical start-up sequence of multiple outdoor units systems equalises compressor duty and extends operating life.



#### Back-up function

In the event of a compressor malfunction another compressor or outdoor unit will take over in order to maintain 8 hour interim capacity, allowing time for maintenance or repair while comfort remains guaranteed.



#### Auto-cleaning filters

Auto cleaning filters enhance reliability thanks to clean air filters all the time.

Additionally clean filters reduce running costs and improve indoor air quality.



#### Refrigerant-cooled PCB

- Reliable cooling because it is not influenced by ambient air temperature
- Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%



#### Sequential Start

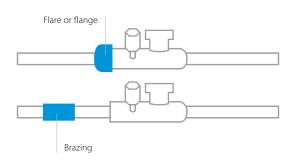
Up to 3 outdoor units can be connected to 1 power supply and can be turned on sequentially. This allows the number of breakers and their capacities to remain small and simplifies wiring (for models of 10HP or less).



#### Only brazed connections

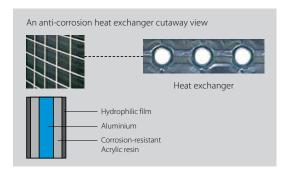
All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment.

Also the connection of the outdoor in the main pipe is brazed.



#### Anti Corrosion Treatment

Special anti corrosion treatment of the heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion. The provision of rust proof steel sheet on the underside of the unit gives additional protection.

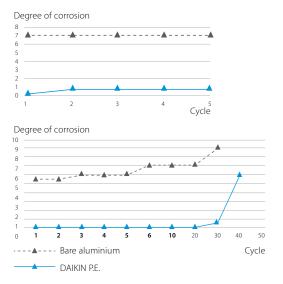


#### Performed tests:

- > VDA Wechseltest
- > Contents of 1 cycle (7 days):
- > 24 hours salt spray test SS DIN 50021
- > 96 hours humidity cycle test KFW DIN 50017
- > 48 hours room temperature & room humidity testing period: 5 cycles

#### Kesternich test (SO2)

- > contents of 1 cycle (48 hours) according to DIN50018 (0.21)
- > testing period: 40 cycles



# Comfort guaranteed

#### at all times

#### Continuous heating during defrost mode

VRV IV<sup>+</sup> continues to provide heating even when in defrost mode, providing an answer to any perceived disadvantages of specifying a heat pump as a monovalent heating system.

- > Continuous indoor comfort ensured by the heat accumulating element and alternate defrost
- > An innovative alternative to traditional heating systems

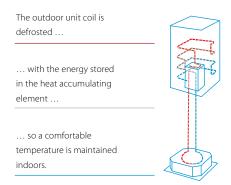


#### How does it work? UNIQUE Heat accumulating element

For the VRV IV+ heat pump single unit systems a unique heat-accumulating element is used. This element, based upon phase change material, provides the energy to defrost the outdoor unit.

#### Alternate defrost

On all our multi unit systems only 1 outdoor coil is defrosted at a time, ensuring continuous comfort during the whole process.



Available on: RYYQ8-20U Water cooled VRV has no defrost cycles







the outdoor unit coil is defrosted ...

- ... one at the time .
- ... so a comfortable temperature is maintained indoors

Available on: RYYQ16-54U, REYQ10-54U, RX-YQQ16-42U and RQCEQ280-848P3

#### Smart Control brings comfort

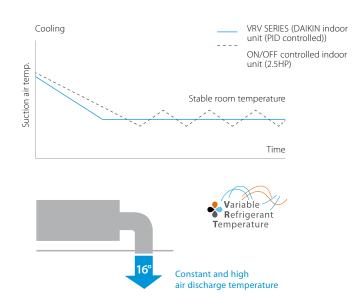
#### Stable room temperature

An electronic expansion valve continuously adjusts the refrigerant volume in respond to load variations of the indoor units. The VRV system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations typical of conventional ON/OFF control systems.

Note: the graph shows the data, measured in a test room assuming actual heating load. The thermostat can control stable room temperature at  $\pm~0.5^{\circ}\text{C}$  from set point.

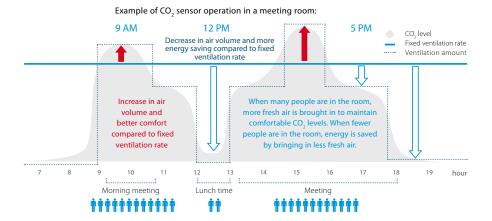
#### No more cold draught

Automatic or manual adjustment of refrigerant temperature leads to higher outblow temperatures which avoid the cold draught coming from the indoor unit.



# Ensure optimal IAQ using CO<sub>2</sub> sensors

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO<sub>2</sub> sensor regulates the ventilation system to provide the needed fresh air to the room, avoiding over-ventilation and saving energy.



#### Low operation sound level



#### Whisper quiet indoor units

Daikin indoor units have very low sound operation levels, **down to 19dB(A)**, making them ideal for sound sensitive area's as hotel bedrooms, etc.



Connectable to VRV IV+, VRV IV C+series and VRV IV W+series

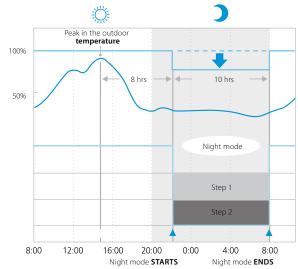
Connectable to all VRV heat pumps

#### Outdoor unit sound reduction

For areas where there are stringent limitations to sound levels, the outdoor unit sound level can be automatically reduced to meet the requirement.

To manually set set the time for low noise operation you can use the external control adaptor DTA104A61/62/53.





Example for VRV IV heat pump, factory setting.

#### Sound enclosure for VRV5

#### EKLN140A

- > Sound reduction up to -10 dB(A) on Sound Power values
- > Dedicated Daikin option for VRV 5 RXYSA
- > Fully optimized and tested in Daikin Factory for guaranteed performance
- Very low capacity and pressure drop thanks to separated air intake and discharge
- > Fast and easy installation & servicing

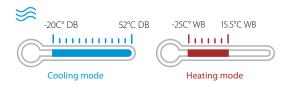


# Great design flexibility

#### Wide operation range

#### Air cooled

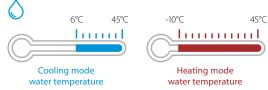
The VRV system can be installed practically anywhere. VRV air cooled outdoor units can cool between -20°C BD and +52°C DB outdoor ambient and can be used as monovalent heating system between -25°C WB and +15.5°C WB.



With the technical cooling function, the operation range in cooling of the heat recovery system is extended from -5°C to -20°C, making it perfect for integrating server rooms.

#### Water cooled

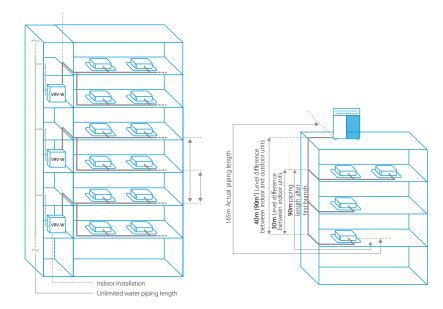
Standard water cooled outdoor units operation between 10°C and 45°C for both heating and cooling. In geothermal mode, the operation range is extended to -10°C\* during heating and 6°C during cooling. These units are not influenced by external conditions and function well in extreme climates.



\* Ethylene glycol should be added to the water when the water inlet temperature is below 5°C.

#### Flexible piping design

The long piping lengths, high level differences and small refrigerant piping allows for a design with little limitations and leaving maximum space for lettable space.



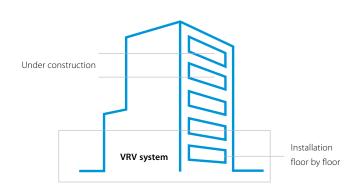
#### **VRV IV example**

	Air cooled	Water cooled
Total piping length	1000 m	500 m
Longest length actual (Equivalent)	165 m (190 m)	165 m (190 m)
Longest length after first branch	90 m <sup>1</sup>	40 m (90 m <sup>1</sup> )
Level difference between indoor and outdoor units	90 m <sup>1</sup>	50 m (40 m²)
Level difference between indoor units	30 m	30 m

<sup>&</sup>lt;sup>1</sup>Contact your local dealer or consult technical literature for more information and restrictions

#### Phased installation

Installation of the VRV system can be implemented floor by floor, so that sections of the building can be put into use very quickly, or enabling the air conditioning system to be commissioned and operated in stages, rather than on final completion of the project.



<sup>&</sup>lt;sup>2</sup> In case outdoor unit is located below indoor units

#### Indoor installation

#### Air cooled

#### Standard outdoor unit installed indoors

The VRV optimised fan blade shape increases output and reduces pressure loss. Together with the **high ESP setting (up to 78.4 Pa)**, it makes VRV outdoor units ideal for indoor installation using ducts.

#### VRV IV i-series heat pump for indoor installation

The ultimate and unique solution from Daikin is to use the VRV IV i-series. This unit is optimised for indoor installation and is the most flexible solution, without the need for a large technical room to put the outdoor unit and it is complete invisible!



More details on page 60

#### Water cooled

- Seamless integration in the surrounding architecture as you cannot see the unit
- Highly suited for sound sensitive areas as there is no external operation sound
- Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation







#### Multiple tenants, one outdoor unit

The multi tenant function ensures that the entire VRV system does not shut down when the main power supply of an indoor is switched off.

This means that the indoor unit's main power supply can be turned off when a part of the building is closed or is being serviced without affecting the rest of the building.

#### 2 solutions according to the needs:

- Service setting, without additional hardware: for service execution within 24 hours
- > PCB option: when tenants leave for a longer period (holiday) and the main power supply is shut down



#### Compact and light

#### No structural reinforcement necessary

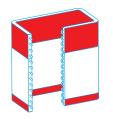
Thanks to the vibration-free and sufficient light construction of the outdoor units, floors do not need to be reinforced, reducing the overall cost of the building when **compared to a chiller**.



maximum **398 kg** for a 20HP unit

#### 4-sided, 3-row heat exchanger

Thanks to the large surface of the heat exchanger (up to 235 m<sup>2</sup>) VRV units are compact, light and highly efficient.



surface up to 235 m<sup>2</sup>

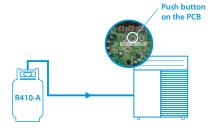
# Fast installation and commissioning

#### Easy servicing

#### Automatic charging & testing



After charging, pushing the test operation button initiates a check on the wiring, shut off valves, sensors and refrigerant volume.



If the temperature drops below 20°C\* manual charging is necessary.

- \* 10°C for heat pump for cold regions
- \* Available on REYQ-U, RYYQ-U, RXYQ-U, RQYQ-P, RXYQQ-U, RQCEQ-P3



#### Easy compliance to F-gas regulation

#### No leak check requirement

#### Remote refrigerant containment check



For the majority of VRV 5 R-32 systems no leak check is needed as the total CO<sub>2</sub> eq. of the system is below 5 tonnes (total charge up to 7.4 kgs).

For systems with a total CO<sub>2</sub> eq. above 5 tonnes the refrigerant containment check can be done remotely via the intelligent Touch Manager.



Remotely set the time and start the refrigerant containment check when it is most convenient for you.



Connect to customer site via internet or 3G increasing customer satisfaction as there is no disruption to the air conditioning during business hours.



Check the report once the check has been done

Available on REYQ-U, RYYQ-U, RXYQ-U. Next to remote checking, the function can also be activated on-site via a push button on the PCB.

When activating the refrigerant containment check, the unit switches into cooling mode and duplicates certain reference conditions based on memory data. The result indicates whether or not refrigerant leakage has occurred.

The refrigerant volume of the complete system is calculated based on the following data:

- > Outdoor temperature
- Reference system temperatures
- > Reference system pressures
- > Refrigerant density
- > Types and number of indoor units

#### 7-segment display

#### for quick and accurate error diagnosis

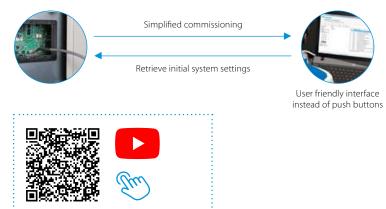
Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.



#### **VRV** Configurator

#### Software for simplified commissioning, configuration and customisation

- > Graphical interface
- Manage systems over multiple sites in exactly the same way
- > Retrieve initial settings



7 segment display and configurator available on: REYQ-U, RYYQ-U, RXYQ-U, RXYQQ-U. Only configurator available on: RXYSA-AV1/AY1, RXYSCQ-TV1, RXYSQ-TV9/TY9/TY1, SB.RKXYQ-T(8).

#### Compact design

The compact design of the outdoor units is sufficient to allow them to be taken up to the top of a building in a commercial elevator, overcoming site transportation problem, particularly when outdoor units need to be installed on each floor.

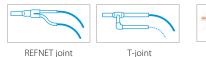




#### Daikin unified REFNET piping

The unified Daikin REFNET piping system is designed for simple installation. Compared to regular T-joints, where refrigerant distribution is far from optimal, the Daikin REFNET joints have specifically been designed to optimise refrigerant flow.

Daikin Europe N.V. advises only to use Daikin REFNET piping system.





#### Easy wiring - "Super Wiring" System

#### Simplified wiring

Shared use of wiring between indoor units, outdoor units and centralised remote control

- > Easy retrofit of centralised remote control
- > Impossible to make incorrect connections thanks to non polarity wiring
- > Sheated wire can be used
- > Unique total wiring length up to 2,000 m

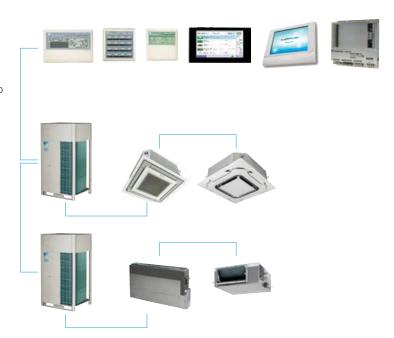
#### Cross wiring check

The cross wiring check function warns operatives of connection errors in inter unit wiring and piping.

#### **Auto Address Setting Function**

Allows wiring between indoor and outdoor units, as well as group control wiring of multiple indoor units, to be performed without the bothersome task of manually setting each address.

\* auto adress setting fuction is not available for centralized operation





#### **BLUEVOLUTION**

# VRV 5

	VRV 5	31
	Product overview	32
	Outdoor units	37
UNIQUE	RXYSA-AV1/AY1	37
	Indoor units	38
UNIQUE	FV7AA F II O	38 39 41
UNIQUE 10 CLASS UNIT	Concealed ceiling units Auto cleaning filter for concealed ceiling units FXDA-A - Slim concealed ceiling unit FXSA-A - Concealed ceiling unit with medium ESP	42 42 43 44
	Wall mounted units FXAA-A - Wall mounted unit	45 45



#### **2nd Prize**

for Daikin's VRV 5 that utilizes R32 as refrigerant and it's factory integrated refrigerant containment measures – Shîrudo Technology.



#### VRV 5 outdoor unit overview

Capacity class (kW)

	Model		Product name		4	5	6	VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	AHU connection	Air curtains	Remarks
heat pump	UNIQUE	Lower CO2 equivalent and market-leading flexibility  Compact single fan design saves space and is easy to install  Market-leading serviceability and handling		1~	•	•	•	0	×	×	0	O*	O*	> Standard total system connection ratio limit: 50 ~ 130%
Air – cooled	VRV 5 S-series	<ul> <li>Reduced CO2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge</li> <li>Tackle small room applications without any additional measures, thanks to Shîrudo technology</li> </ul>	RXYSA-AV1 / AY1	3~	•	•	•	0	×	×	0	0*	0*	> Standard total system connection ratio limit: 50 ~ 130%

<sup>\*</sup> For sales availability refer to your local sales representative





#### VRV 5 indoor unit overview

Capacity class (kW)

Type	Model	Proc	duct name	10	15	20	25	32	40	50	63	71	80	100	125	140	
ited cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort  > Auto cleaning function ensures high efficiency  > Intelligent sensors save energy and maximize comfort  > Flexibility to suit every room layout  Lowest installation height in the market!  > Widest choice ever in decoration panel designs and colors	FXFA-A			•	•	•	•	•	•		•	•	•		
Ceiling mounted	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling  > Perfect integration in standard architectural ceiling tiles  > Blend of iconic design and engineering excellence    Intelligent sensors save energy and maximize comfort  > Small capacity unit developed for small or well-insulated rooms  > Flexibility to suit every room layout	FXZA-A	>	•	•	•	•	•	•							Black and designer panels
d ceiling	Slim concealed ceiling unit	Slim design for flexible installation  Compact dimensions enable installation in narrow ceiling voids  Medium external static pressure up to 44Pa  Only grilles are visible  Small capacity unit developted for small of well-insulated rooms  Reduced energy consumption thanks to DC fan motor	FXDA-A	UNIQUE FOR R-32	•	•	•	•	•	•	•						
Concealed	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market!  Slimmest unit in class, only 245mm  Low operating sound leve!  Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths  Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSA-A		•	•	•	•	•	•	•		•	•	•	•	Auto cleaning filter option
Wall mounted	Wall mounted unit	For rooms with no false ceilings nor free floor space  > Flat, stylish front panel is more easy to clean  > Small capacity unit developted for small of well-insulated rooms  > Reduced energy consumption thanks to DC fan motor  The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAA-A		•	•	•	•	•	•	•						
Cooling	g capacity (kW	/)¹		1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
Heating	g capacity (kV	/) <sup>2</sup>		1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	

- (1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m
- (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

#### Sound enclosure for VRV 5



Very low capacity and pressure drop

**✓** Fully optimized and tested in Daikin Factory



Fast & easy installation & servicing



Outdoor unit sound reduction up to -10 dB(A) on Sound Power values





₹V 5	indoor unit	t benefit overview	Ceiling r cassett	mounted e units	Concealed	ceiling units	Wall mounted unit
			FXFA-A	FXZA-A	FXDA-A	FXSA-A	FXAA-A
			•				
	Home leave operation	During absence, indoor comfort levels can be maintained.	•	•	•	•	•
	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating.	•	•	•	•	•
*	Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	(optional)		(optional)		
***	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	•	•			
2	Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.	•	•			
	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.	•	•	•	•	
[A]	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	•	•	•	•	•
treatment	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	G1(2) (G3 (2) in case of auto cleaning panel)	G1(2)	•	G1(2)	•
Contro	Dry programme	Allows humidity levels to be reduced without variations in room temperature.	•	•	•	•	•
	Ceiling soiling prevention	The air discharge of the indoor unit is specially designed to prevent air being blown against the ceiling to prevent ceiling stains.	•	•			
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.	•	•			•
S	Fan speed steps	Multiple fan speeds to select, to optimize comfort levels.	5 + auto	3 + auto	3	3 + auto	3
×	Individual louver control	Individual louver control via the wired remote controller makes it simple to fix the position of each louver individually, to suit any new room configuration. Optional closure kits are available as well.	•	•			
FOAIKIN	Daikin residential controller (BRP069C51)	Can control and monitor the status of your Daikin heating or air conditioning system.	•	•	•	•	•
24/7	Weekly timer	Timer can be set to start and stop operation anytime on a daily or weekly basis.	•	•	•	•	•
	Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit.	• (1)	• (1)	•(1)	•(1)	• (1)
3 💇	Wired remote control	Wired remote control to remotely control your indoor unit.	0	nly connect	able to new	BRC1H52W/S	5/K
		Centralised control to to control several indoor units from one single	•	•	•	•	•
	Centralised control	point.					
# Auto	Centralised control  Auto-restart		•	•	•	•	•
# Auto		point.	•	•	•	•	•
	Auto-restart	point.  The unit restarts automatically at the original settings after power failure.  Simplifies maintenance by indicating system				Standard	Option

<sup>(1)</sup> Must be combined with Madoka wired remote controller.

<sup>(2)</sup> Filter grade category are an indication, filters are not certified.

# Did you know ...

#### different standards regarding F-gas safety regulations exist?

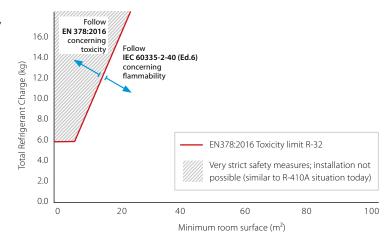
Two standards are applied to cover the safety regulations of refrigerants:

- > EN378:2016: the generic standard on refrigerants covering the toxicity of the refrigerant (class A or B)
- > IEC60335-2-40 (Ed.6): the specific heat pump product standard covering the flammability of the refrigerant (1, 2L, 2, 3)

#### When is which standard applicable?

IEC60335-2-40 (Ed.6), being a specific product standard, prevails over any generic product standard, like EN378:2016 is.

Considering also that limitations for flammability for A2L refrigerants are stricter than the ones for toxicity, the application area of VRV 5 is covered by IEC60335-2-40 (Ed.6)!



#### How to get the most of an R-32 VRV under IEC60335-2-40 (Ed.6)?

The product standard IEC60335-2-40 (Ed.6) specifies the following:

- > The minimum room surface that needs to be respected, in function of the total refrigerant quantity of the system.
- > The measures that can be implemented to relax limitations on minimum room surface in relation to the system's total refrigerant charge.

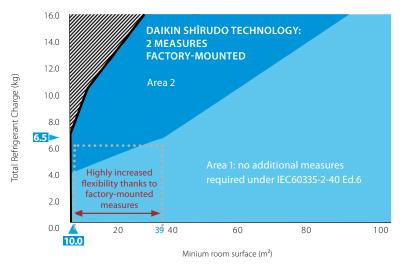
#### Possible measures towards flammability

- > Manufacturers have the choice to implement zero, one or two measures
- > 3 types of measures are allowed:
  - > Ventilation (natural or mechanical)
  - > Shut-off valves
  - > Alarm (local and supervisor)

The true flexibility of a system is highly depending on keeping the considerations needed to select, install and maintain a system to the minimium. Daikin has 2 factory-integrated measures, undertaking full responsibility about compliance to product standard and offering maximum flexibility if some simple installation requirements are respected.

#### Overview of room area limitation by EN378:2016 and IEC60335-2-40 (Ed.6)

Overview of minimum room surface in function of applied measures under IEC60335-2-40 (Ed.6), considering units are installed at minimum 1.8 m height and above the lowest underground floor.



#### Area 1: application area without any measures

- > Typically split and Sky Air systems fall in this area thanks to very low refrigerant charges.
- A typical mini VRV installation, with 6.5 kgs of refrigerant would require a minimum room surface of 39 m<sup>2</sup>

#### Area 2: application area with 2 measures integrated

 Daikin Shîrudo technology enables to use the VRV system to it's full potential with a minimum room surface down to 10 m² (1)

(1) For applications below 10 m² contact your local Daikin representative.



# Taking care



#### of every room in your building

With Shirudo technology your VRV 5 system takes are of any room down to 10 m<sup>2</sup>, without the need for time consuming selections and additional measures to be taken in the field.

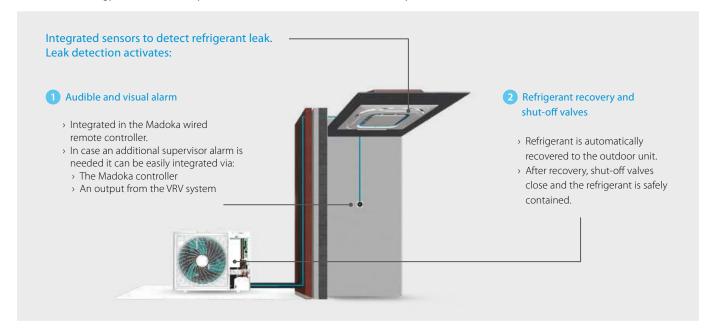
With all measures factory-integrated, VRV 5 is the most flexible and quick to design, fully compliant to the latest product standards.

#### Maximum flexibility out of the box

- > Install in rooms down to 10 m<sup>2</sup> (1).
- > Flexible design as any other VRV system.
- > WebXpress selection software ensures compliance to the latest product standards.

#### All refrigerant control measures factory-integrated

Shîrudo technology includes 2 factory measures and sensors built into a VRV 5 system.



#### Compliance taken care of for you

- > No study or calculations needed, where and how to install outdoor unit, indoor units or piping.
- > No need to design and install flammability measures.
- > Third party CB certified by a Notified Body (SGS CEBEC).

No liability is transferred on consultant or installer side!

# Automatic, real time leak detection and refrigerant recovery

- > No leak check requirement for majority of installations (up to 7,4 kg of refrigerant charge).
- > Fully compliant to product standard (IEC60335-2-40), minimizing the risk of direct CO₂ eq. impact from a refrigerant leak.
- > Continuously self monitored system immediately detects any refrigerant leak. When a leak is detected, an alarm is activated to notify tenants and refrigerant is automatically recovered.



### Next generation **JRJ**



#### New asymmetric fan design

- > Two high ESP settings
- > Low sound levels

#### Compact dimensions

Easy to transport thanks to compact size and single-fan design



New casing design with 4 handles for

#### Specially designed grille

- > Low pressure drop
- > No risk for accidental reach of the fan

easy carrying



Unique 3-row heat exchanger Contributes to top seasonal efficiency

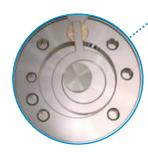
#### Refrigerant cooled PCB

With integrated:

- > cool/heat selector input
- 7-segment display for quicker and more precise error and setting reading

#### New stop valves

- Repositioned to allow front or side connection
- > Brazed for increased reliability



#### Unique Daikin swing compressor

- > No abrasion possible
- > No refrigerant leak possible
- > High seasonal efficiencies



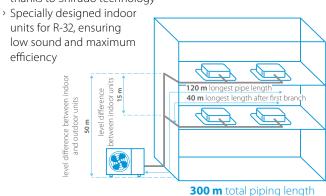




# **VRV 5 S-series**

# Lower CO<sub>2</sub> equivalent and market-leading flexibility

- Reduced CO<sub>2</sub> equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- > Low-height single fan range
- > Easy to transport thanks to lightweight and compact design
- > Wide access area to easily reach all key components
- > Tackle small room applications without any additional measures, thanks to Shîrudo technology











Already fully compliant to LOT 21 - Tier 2

**Click** or **scan** the code to access all technical information







Reduced CO<sub>2</sub> equivalent

Flexibility to take care of every room

Published data with real-life indoor units

Outdoor unit					RXYSA4AV1	RXYSA5AV1	RXYSA6AV1	RXYSA4AY1	RXYSA5AY1	RXYSA6AY1
Capacity range				HP	4	5	6	4	5	6
Cooling capacity	Prated,c			kW	12.1	14.0	15.5	12.1	14.0	15.5
Heating capacity	Prated,h			kW	8.4	9.7	10.7	8.4	9.7	10.7
	Max.	6°CWB		kW	14.2	16.0	18.0	14.2	16.0	18.0
Recommended con	nbination				3xFXSA25A2VEB+	4xFXSA32A2VEB	2xFXSA32A2VEB +	3xFXSA25A2VEB+	4xFXSA32A2VEB	2xFXSA32A2VEB+
					1xFXSA32A2VEB		2xFXSA40A2VEB	1xFXSA32A2VEB		2xFXSA40A2VEB
ηs,c				%	324.5	306.1	301.0	312.5	294.8	289.9
ηs,h				%	200.5	185.7	183.6	193.1	178.8	176.8
SEER					8.2	7.7	7.6	7.9	7.4	7.3
SCOP					5.1	4.7	4.7	4.9	4.5	4.5
Maximum number	of connecta	ble indoor	units		13 (1)	16 (1)	18 (1)	13 (1)	16 (1)	18 (1)
Indoor index	Min.				50	62.5	70	50	62.5	70
connection	Nom.				100	125	140	100	125	140
	Max.				130	162.5	182	130	162.5	182
Dimensions	Unit	HeightxW	idthxDepth	mm			869x1,1	00x460		'
Weight	Unit		•	kg			10	02		
Sound power level	Cooling	Nom.		dBA	67	68.1	69	67	68.1	69
•	Heating	Nom.		dBA	68	69.2	70	68	69.2	70
	Heating	According	to ENER LOT21		57	59	60	57	59	60
Sound pressure level	Cooling	Nom.		dBA	49	51	51	49	51	51
•	Heating	Nom.		dBA	50	52	52	50	52	52
Operation range	Cooling	Min.~Max		°CDB			-5.0 ~	~ 46.0		
., 3.	Heating	Min.~Max		°CWB			-20.0	) ~ 16		
Refrigerant	Type/GWP						R-32	2/675		
•	Charge			kg/TCO2Eq			3.40	/ 2.30		
Piping connections	Liquid	OD		mm			9.	52		
	Gas	OD		mm			15	5.9		
	Total piping length	system	Actual	m			30	00		
	Height Difference	OU-IU	Outdoor unit in highest position	m			5	0		
			Indoor unit in highest position	m			4	0		
Power supply	Phase/Fred	uency/Vol	tage	Hz/V		1~/50/220-240			3~/50/380-415	
Current - 50Hz	Maximum			A		32			16	



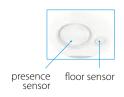
# New round flow cassette



- > Bigger louvers and new sensor logic further improves equal air distribution in the room
- > Widest ever choice in panels for cassette units, with up to 8 different panels



Comes with the known benefits: 360° air flow discharge
 and intelligent sensors



> Auto cleaning panels available in black and white





# Auto cleaning filter

Dust can simply be removed using a vacuum cleaner without opening the unit.

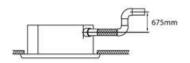
\* Available as an option



# Round flow cassette

# 360° air discharge for optimum efficiency and comfort

- > Optimised design for R-32 refrigerant
- > Optional automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs.
- > Two optional intelligent sensors improve energy efficiency and comfort
- > Widest choice ever in decoration panels: Designer, standard and autocleaning panels in white (RAL9010) and black (RAL9005)
- > Bigger louvers and unique swing pattern improve equal air distribution
- > Individual louver control: flexibility to suit every room layout without changing the location of the unit!
- > Lowest installation height in the market: 214mm for class 20-63
- > Optional fresh air intake
- > Standard drain pump with 675mm lift increases flexibility and installation speed













White panel

White auto cleaning panel

Black panel

Black design panel

## Click or scan the code to access all technical information





Indoor unit			FXFA	20A	25A	32A	40A	50A	63A	80A	100A	125A
Cooling capacity	Total capacity	at high fan speed	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	at high fan speed	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Power input - 50Hz	Cooling	at high fan speed	kW		0.	04		0.05	0.06	0.09	0.12	0.19
	Heating	at high fan speed	kW		0.	04		0.05	0.06	0.09	0.12	0.19
Dimensions	Unit	HeightxWidthxDepth	mm			204x84	40x840			246x84	40x840	288x840x840
Weight	Unit		kg		18		19	2	21	2	.4	26
Casing	Material						Galva	nised steel	plate			
Decoration panel	Model			Standard	panels: BYC	Q140E - wh	ite with gre	y louvers /	BYCQ140E\	N - full whit	e / BYCQ140	DEB - black
					Auto	cleaning p	oanels BYCQ	140EGF - w	hite / BYCC	)140EGFB - I	olack	
					l	Designer pa	anels: BYCQ1	140EP - whi	te / BYCQ14	0EPB - blac	k	
	Dimensions	HeightxWidthxDepth	mm	Standard	panels: 65x	950x950 / A	Auto cleanin	g panels: 1	48x950x95	0 / Designe	r panels: 10	6x950x950
	Weight		kg				5.5 / Auto cl	eaning pan	els: 10.3 / D	esigner par	nels: 6.5	
Fan	Air flow rate -	Cooling H/MH/M/ML/L	m³/min	12.8/ 11.8/	12.8/ 11.8/	12.8/11.8/	14.8/ 13.7/	15.1/14.0/12.8/	16.6/15.0/	23.3/ 21.7/ 19.3/	28.8/25.1/	33.0/ 30.2/ 27.4/
	50Hz			10.7/ 9.8/ 8.9	10.7/ 9.8/ 8.9	10.7/ 9.8/ 8.9		11.8/10.7	13.3/12.0/10.7		21.2/ 17.5/ 13.8	24.0/ 20.6
		Heating H/MH/M/ML/L	m³/min	12.8/ 11.8/	12.8/ 11.8/	12.8/11.8/	14.8/ 13.7/	15.1/14.0/12.8/	16.6/15.0/	23.3/ 21.7/ 19.3/	29.0/ 25.1/	33.0/ 30.2/ 27.4/
				10.7/ 9.8/ 8.9	10.7/ 9.8/ 8.9	10.7/ 9.8/ 8.9	12.6/11.5/10.4	11.8/10.7	13.3/12.0/10.7	16.5/ 13.8	21.2/ 17.5/ 13.8	24.0/ 20.6
Air filter	Туре							Resin net				
<u> </u>	Cooling	At high fan speed	dBA		49 (4)		51	(4)	53 (4)	55 (4)	60 (4)	61 (4)
Sound pressure	Cooling	L/ML/M/MH/H	dBA	31/3	30/29/29.5/2	8 (4)	33/32/31/	/30/29(4)	35/34/	38/36/34/	43/41/37/	45/43/41/
level									33/32/30 (4)		34/30(4)	39/36 (4)
	Heating	L/ML/M/MH/H	dBA	31/3	30/29/29.5/2	8 (4)	33/32/31/	/30/29 (4)	35/34/33/	38/36/34/	43/41/37/	45/43/41/
									32/30(4)	32/30(4)	34/30 (4)	39/36 (4)
Refrigerant	Type/GWP							R-32 / 675				
Piping connections		OD	mm				6.35					.52
	Gas	OD	mm		9.52			12	2.7		15	5.9
	Drain						VP25	(O.D. 32 / I.	D. 25)			
Power supply	Phase/Freque	, ,	Hz/V				1~/50	/60/220-24	0/220			
Current - 50Hz		e amps (MFA) (1)	A					6				
Control systems	Infrared remot							RC7FA532F	` '			
	Wired remote	control					BI	RC1H52W/S	/K			

<sup>(1)</sup> MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing | (2) Must be combined with Madoka wired remote controller. | (3) L/ML/M/MH/H are the different fan speeds availble. L= low; ML= medium low; M= medium; MH= medium high; H= high | (4) Sound of designer panel: +3dB | Contains fluorinated greenhouse gases



# **Fully flat cassette**

# Unique design in the market that integrates fully flat into the ceiling

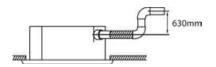
- > Optimised design for R-32 refrigerant
- > Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- > Two optional intelligent sensors improve energy efficiency and comfort
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Individual louver control: flexibility to suit every room layout without changing the location of the unit!



> Optional fresh air intake



> Standard drain pump with 630mm lift increases flexibility and installation speed

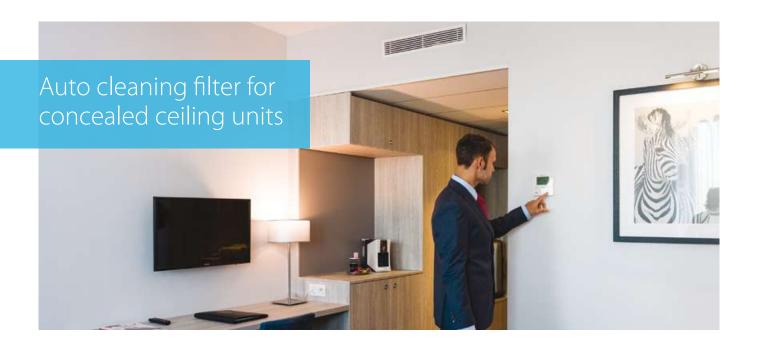


# **Click** or **scan** the code to access all technical information





Indoor unit			FXZA	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fan speed	kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fan speed	kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan speed	kW		0.043		0.045	0.059	0.092
	Heating	At high fan speed	kW		0.043		0.045	0.059	0.092
Dimensions	Unit	HeightxWidthxDepth	mm			260x5	75x575		
Weight	Unit		kg		15.5		16	5.5	18.5
Casing	Material					Galvanised	l steel plate		
Decoration panel	Model					BYFQ60	C4W1W		
	Colour					White	(N9.5)		
	Dimensions	HeightxWidthxDepth	mm			46x62	0x620		
	Weight		kg			2.	.8		
Decoration panel 2	Model					BYFQ60	OC4W1S		
	Colour					SIL	VER		
	Dimensions	HeightxWidthxDepth	mm			46x62	0x620		
	Weight		kg			2.	.8		
Decoration panel 3	Model				B	YFQ60B3W1 + wi	re harness EKRS	23	
	Colour					WHITE (F	RAL9010)		
	Dimensions	HeightxWidthxDepth	mm			55x70	0x700		
	Weight		kg			2	.7		
Fan	Air flow rate -	Cooling H/M/L fan speed	m³/min	8.5 / 7.0 / 6.5	8.7 / 7.5 / 6.5	9.0 / 8.0 / 6.5	10.0 / 8.5 / 7.0	11.5 / 9.5 / 8.0	14.0 / 12.5 / 10.0
	50Hz	Heating H/M/L fan speed	m³/min	8.5 / 7.0 / 6.5	8.7 / 7.5 / 6.5	9.0 / 8.0 / 6.5	10.0 / 8.5 / 7.0	11.5 / 9.5 / 8.0	14.0 / 12.5 / 10.0
Air filter	Туре					Resir	n net		
Sound power level	Cooling	At high fan speed	dBA	4	.9	50	51	54	60
Sound pressure	Cooling	Low/medium/high fan speed	dBA	25.5/28.0/31.5	25.5/29.5/32.0	25.5/30.0/33.0	26.0/30.0/33.5	28.0/32.0/37.0	33.0/40.0/43.0
level	Heating	Low/medium/high fan speed	dBA	25.5/28.0/31.5	25.5/29.5/32.0	25.5/30.0/33.0	26.0/30.0/33.5	28.0/32.0/37.0	33.0/40.0/43.0
Refrigerant	Type/GWP					R-32	/ 675		
Piping connections	Liquid	OD	mm			6.	35		
	Gas	OD	mm		9.	52		1:	2.7
	Drain					VP20 (I.D. 2	20/O.D. 26)		
Power supply	Phase/Frequer	icy/Voltage	Hz/V			1~/50/60/2	20-240/220		
Current - 50Hz	Maximum fuse	amps (MFA)	Α			(	5		
Control systems	Infrared remot	e control		BRC7EB530	OW (standard pa	nel) / BRC7F530V	V (white panel) /	BRC7F530S (gre	y panel) (1)
•	Wired remote	control					52W/S/K		



The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs

12 months

# Reduce running costs

 Automatic filter cleaning ensures low maintenance costs because the filter is always clean

Efficiency profile change for duct indoor unit during operation

Up to 20%

Energy saved thanks to automatic filter cleaning

6 months

# UNIQUE Patents pending

### Minimal time required for filter cleaning

- > The dust box can be emptied with a vacuum cleaner for fast and easy cleaning
- > No more dirty ceilings

### Improved indoor air quality

start

> Optimum airflow eliminates draft and insulates sound

### Superb reliability

> Prevents clogged filters for seamless operation

### Unique technology

 Unique and innovative filter technology inspired by the Daikin auto cleaning cassette



# Combination table

	S	plit/	Sky A	ir				VRV			
		FDX	M-F9			F	XDA-	A/FX	DQ-A	3	
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

# How does it work?

- 1 Scheduled automatic filter cleaning
- 2 Dust collects in a dust box that's integrated into the unit
- 3 The dust can easily be removed with a vacuum cleaner





Specifications	BAE20A62	BAE20A82	BAE20A102
Heigth (mm)		210	
Width (mm)	830	1,030	1,230
Depth (mm)		188	

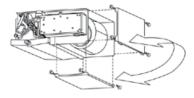
# Slim concealed ceiling unit

# Slim design for flexible installation

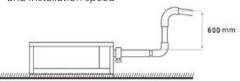
- > Optimised design for R-32 refrigerant
- > 10 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm



- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Optional auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



Standard drain pump with 600mm lift increases flexibility and installation speed



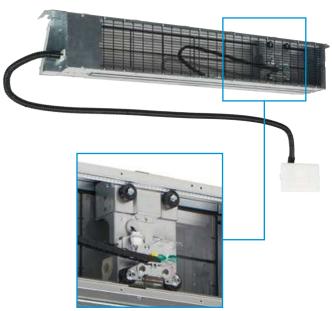
# **Click** or **scan** the code to access all technical information











Auto cleaning filter option

Indoor unit			FXDA	10A	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed	kW	1.10	1.70	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed	kW	1.30	1.90	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed	kW	0.042	0.057		0.068		0.075	0.096	0.107
	Heating	At high fan speed	kW	0.042	0.057		0.068		0.075	0.096	0.107
Required ceiling vo	id >		mm				24	40			
Dimensions	Unit	HeightxWidthxDepth	mm		2	200x750x620	)		200x9	50x620	200x1,150x620
Weight	Unit		kg			22.0			26	5.0	29.0
Casing	Material						Galvani	sed steel			
Fan	Air flow rate -	Cooling H/M/L fan speed	m³/min	5.2 / 4.9 / 4.7	6.5 / 6.2 / 5.8	8.0 / 7.2 / 6.4	8.0 / 7.2 / 6.4	8.0 / 7.2 / 6.4	10.5 / 9.5 / 8.5	12.5 / 11.0 / 10.0	16.5 / 14.5 / 13.0
	50Hz	Heating H/M/L fan speed	m³/min	5.2 / 4.9 / 4.7	6.5 / 6.2 / 5.8	8.0 / 7.2 / 6.4	8.0 / 7.2 / 6.4	8.0 / 7.2 / 6.4	10.5 / 9.5 / 8.5	12.5 / 11.0 / 10.0	16.5 / 14.5 / 13.0
	External static	Factory set/High	Pa			10/30.0				15/44.0	
	pressure - 50Hz	Z									
Air filter	Туре						Removable	/ washable			
Sound power level	Cooling	At high fan speed	dBA	48	50		51		52	53	54
Sound pressure level	Cooling	Low/Medium/High fan speed	dBA	26/28/29	27.0/31.0/32.0		27.0/31.0/33.0	)	28.0/32.0/34.0	29.0/33.0/35.0	30.0/34.0/36.0
Refrigerant	Type/GWP						R-32	/ 675			
Piping connections	Liquid	OD	mm				6.	35			
	Gas	OD	mm			9.52				12.7	
	Drain										
Power supply	Phase/Frequen	icy/Voltage	Hz/V				1~/50/60/2	20-240/220			
Current - 50Hz	Maximum fuse	amps (MFA)	Α					6			
Control systems	Infrared remot	e control					BRC4C65/	BRC4C66 (1)			
	Wired remote of	control					BRC1H5	52W/S/K			

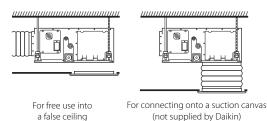
# Concealed ceiling unit with medium ESP

### Slimmest yet most powerful medium static pressure unit on the market

- > Optimised design for R-32 refrigerant
- > Slimmest unit in class, only 245 mm (300 mm built-in height) and therefore narrow ceiling voids are no longer a challenge



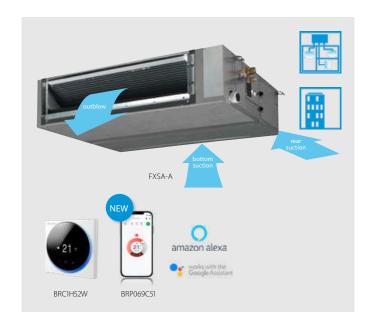
- > Quiet operation: down to 25dBA sound pressure level
- > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Optional fresh air intake
- > Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles



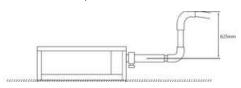
Click or scan the code to access all technical information







> Standard built-in drain pump with 625 mm lift increases flexibility and installation speed

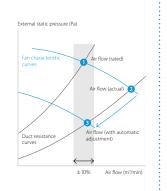


### Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%.

# Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster.



Indoor unit			FXSA	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fan speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fan speed	kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50Hz	Cooling	At high fan speed	kW		0.0	086		0.147	0.150	0.183	0.209	0.285	0.326	0.382
	Heating	At high fan speed	kW		0.0	086		0.147	0.150	0.183	0.209	0.285	0.326	0.382
Dimensions	Unit	HeightxWidthxDepth	mm		245x55	50x800		245x70	008x00	245x1,0	008x00	245x1,4	00x800	245x1,550x800
Weight	Unit		kg		23.5		24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material							Galva	nised ste	el plate				
Fan	Air flow rate -	Cooling H/M/L fan speed	m³/min	8.7/ 7.5/	9.0/7.5/	9.0/7.5/	9.5/ 8.0/	15.0/ 12.5/	15.2/12.5/	21.0/ 18.0/	23.0/ 19.5/	32.0/ 27.0/	36.0/31.5/	39.0/ 34.0/
	50Hz			6.5	6.5	6.5	7.0	11.0	11.0	15.0	16.0	23.0	26.0	28.0
		Heating H/M/L fan speed	m³/min	8.7/ 7.5/	9.0/7.5/	9.0/7.5/	9.5/ 8.0/	15.0/12.5/	15.2/12.5/	21.0/ 18.0/	23.0/ 19.5/	32.0/ 27.0/	36.0/31.5/	42.5/34.0/
				6.5	6.5	6.5	7.0	11.0	11.0	15.0	16.0	23.0	26.0	28.0
	External static	Factory set/High	Pa				30/150				40,	/150	50/	′150
	pressure - 50Hz													
Air filter	Туре								Resin ne	et				
Sound power level	Cooling	At high fan speed	dBA		54		55	6	0	59	(	51	6	4
Sound pressure	Cooling	Low/Medium./High	dBA	25.0/28.0/29.5	25.0/28	3.0/30.0	26.0/29.0/31.0	29.0/32	2.0/35.0	27.0/30.0/33.0	29.0/32.0/35.0	31.0/34.0/36.0	33.0/36.0/39.0	34.0/38.0/41.5
level	Heating	Low/Medium/High	dBA	26.0/29.0/31.5	26.0/29	9.0/32.0	27.0/30.0/33.0	29.0/34	4.0/37.0	28.0/32.0/35.0	30.0/34.0/37.0	31.0/34.0/37.0	33.0/37.0/40.0	34.0/38.5/42.0
Refrigerant	Type/GWP								R-32 / 67	<b>'</b> 5				
Piping connections	Liquid	OD	mm				6	.35					9.52	
	Gas	OD	mm		9.	52			1	2.7			15.9	
	Drain						VP20 (I	.D. 20/O.[	D. 26), dra	in height	t 625 mm			
Power supply	Phase/Frequen	cy/Voltage	Hz/V					1~/50	/60/220-2	240/220				
Current - 50Hz	Maximum fuse		Α						6					
Control systems	Infrared remote					BRC4C65	. ,							
	Wired remote of	control						BF	RC1H52W	/S/K				



# Wall mounted unit

# For rooms with no false ceilings nor free floor space

- > Optimised design for R-32 refrigerant
- > Flat, stylish front panel blends easily within any interior décor and is easier to clean
- > Can easily be installed in both new and refurbishment projects
- > The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- > Maintenance operations can be performed easily from the front of the unit



# Click or scan the code to access all technical information



Indoor unit			FXAA	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	At high fan speed	kW	0.017	0.019	0.028	0.030	0.025	0.033	0.050
	Heating	At high fan speed	kW	0.025	0.029	0.034	0.035	0.030	0.039	0.060
Dimensions	Unit	HeightxWidthxDepth	mm		290x7	95x266			290x1,050x269	
Weight	Unit		kg		1	5			18.5	
Fan	Air flow rate -	Cooling H/M/L fan speed	m³/min	7.1 / 6.8 / 6.5	7.9 / 7.2 / 6.5	8.3 / 7.4 / 6.5	9.4 / 8.0 / 6.5	12.2 / 11.0 / 9.8	14.2 / 12.6 / 10.9	18.2 / 15.5 / 12.9
	50Hz	Heating H/M/L fan speed	m³/min	7.8 / 7.1 / 6.5	8.6 / 7.5 / 6.5	9.0 / 7.7 / 6.5	9.9 / 8.2 / 6.5	12.2 / 11.0 / 9.8	15.2 / 13.7 / 12.1	18.7 / 16.4 / 14.1
Air filter	Туре					W	ashable resin r	net		
Sound power level	Cooling	At high fan speed	dBA	51.0	52.0	53.0	55	5.0	58.0	63.0
Sound pressure	Cooling	Low/Medium/High	dBA	28.5/30.5/32.0	28.5/31.0/33.0	28.5/32.0/35.0	28.5/33.0/37.5	33.5/35.5/37.0	35.5/38.5/41.0	38.5/42.5/46.5
level	Heating	Low/Medium/High	dBA	28.5/31.0/33.0	28.5/31.5/34.0	28.5/32.5/36.0	28.5/33.5/38.5	33.5/36.0/38.0	35.5/39.0/42.0	38.5/43.0/47.0
Refrigerant	Type/GWP						R-32 / 675			
Piping connections	Liquid	OD	mm				6.35			
	Gas	OD	mm		9.	52			12.7	
	Drain					VF	P13 (I.D. 15/O.D.	18)		
Power supply	Phase/Frequen	icy/Voltage	Hz/V				1~/50/220-240			
Current - 50Hz	Maximum fuse	amps (MFA)	Α				6			
Control systems	Infrared remot	e control					BRC7EA630 (1)			
· ·	Wired remote of	control					BRC1H52W/S/k	(		



# VRV IV Outdoor Systems For every application a solution















	VRV 5	VRV IV <sup>+</sup> Heat recovery	VRV IV <sup>+</sup> heat pump (with continuous heating)	VRV IV S-series (compact)	VRV IV i-series	VRV IV C⁺series	Replacement VRV III Heat recovery	Replacement VRV IV <sup>+</sup> heat pump	VRV IV W <sup>+</sup> serie
	RXYSA-AV1 RXYSA-AY1	REYQ-U	RYYQ-U RXYQ-U	RXYSCQ-TV1 RXYSQ-TV9 RXYSQ-TY9 RXYSQ-TY1	SB.RKXYQ-T (8)	RXYLQ-T	RQCEQ-P3	RQYQ-P RXYQQ-U	RWEYQ-TS
Page	37	56	64	72	82	86	92	93	104
BLUEVOLUTION	•	×	×	×	×	×	×	×	×
LOP BY DAIKIN	×	•	•	RXYSQ-TV9/TY9 only	•	•	•	RXYQQ-U only	•
Variable Refrigerant Temperature	•	•	•	•	•	•	×	•	•
Continuous heating	×	alternate defrost	RYYQ-U (unique heat accumulating element)	*	×	alternate defrost	alternate defrost	alternate defrost	-
VRV configurator	•	•	•	•	•	•	×	•	•
7 segment display	•	•	•	*	×	•	×	•	•
Automatic refrigerant charge	×	•	•	×	×	•	•	•	×
Refrigerant containment check	Inculding shut off valves in case a leak is detected during operation	•	•	×	×	•	×	×	×
Night quiet mode	•	•	•	•	•	•	•	•	-
Low noise function	•	•	•	•	•	•	•	•	-
Connectable to stylish indoor units (Daikin Emura, Nexura)	×	×	•	• (1)	×	•	×	×	•
Connectable to LT hydrobox for hot water	×	•	•	×	×	•	×	×	•
Connectable to HT hydrobox for hot water	×	•	×	×	×	×	×	×	•
Refrigerant-cooled PCB	•	•	•	not available on RXYSQ4,5,6,8TY1	×	•	×	•	×
Reluctance brushless DC compressor	•	•	•	•	×	•	•	•	•
Sine wave DC inverter	•	•	•	•	•	•	•	•	•
DC fan motor	•	•	•	•	•	•	•	•	-
E-pass heat exchanger	•	•	•	•	•	•	•	•	-
l demand function	•	•	•	•	•	•	•	•	×
Manual demand function / power limitation	•	•	•	•	•	•	•	•	•

# Products overview IN IV LOOP (1)





	Model		Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30
Air cooled - heat recovery	VRV IV heat recovery	Best efficiency & comfort solution  > Fully integrated solution with heat recovery for maximum efficiency  > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains  > "Free" heating and hot water through heat recovery  > The perfect personal comfort for guests/tenants via simultaneous cooling and heating  > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating  > Allows technical cooling  > Widest range of BS boxes on the market	REYQ-U <b>VRV IV</b> <sup>↑</sup>				•	•	•	•	•	•	•	•	•	•	•	•	•
	VRV IV heat pump with continuous heating	Daikin's optimum solution with top comfort Continuous heating during defrost Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains Connectable to stylish indoor units (Daikin Emura, Stylish,) Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-U VRV IV+				•	•	•		•	•	•	•	•	•	•	•	•
	VRV IV heat pump VR without continuous wheating	Daikin's solution for comfort & low energy consumption  Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains  Connectable to stylish indoor units (Daikin Emura, Stylish,)  Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-U VRV IV+				•	•	•		•	•	•	•	•	•	•	•	•
at pump	VRVIV-S series Compact	The most compact VRV  > Compact and lightweight single fan design saves space and is easy to install > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S -series Compact	•	•	• NEW													
Air cooled - heat pump	VRVIV-S series	Space saving solution without compromising on efficiency  Space saving trunk design for flexible installation  Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains  Either connect VRV of stylish indoor units (Daikin Emura, Stylish,)  Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV9/ TY9/TY1 VRV IV S-series TY9, TY1	•	•	•	•	•	•										
•	VRV IVheat pump for indoor installation	The invisible VRV  > Unique VRV heat pump for indoor installation  > Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts  > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature  > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains	SB.RKXYQ-T(8)  VRV IV i-series		•		•												
	VRV IV heat pump, optimised for cold climates	Where heating is priority without compromising on efficiency  > Suitable for single source heating  > Extended operation range down to -25°C in heating  > Stable heating capacity without any capacity loss down to -15°C  > Very economical solution as a smaller outdoor unit model can be used compared to the standard series	RXYLQ-T					•	•		•	•	•	•	•	•	•	•	•
lent	heat recovery	Ouick & quality replacement for R-22 and R-407C systems  Cost-effective and fast replacement through re-use of exisiting piping  Drastically improve your comfort, efficiency and reliability  No interuption of daily business while replacing your system  Replace Daikin and other manufacturers systems safely	RQCEQ-P3 VRVIII-Q					•		•		•	•	•	•	•	•	•	•
Replacement	heat pump	Quick & quality replacement for R-22 and R-407C systems Cost-effective and fast replacement through re-use of exisiting piping Drastically improve your comfort, efficiency and reliability No interuption of daily business while replacing your system Replace Daikin and other manufacturers systems safely Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQQ-U VRV IV Q*series		•		•	•	•		•	•	•	•	•	•	•	•	•
Water cooled	Water cooled VRVIV	Ideal for high rise buildings, using water as heat source	RWEYQ-T9* VRV IV W series				•	•	•		•	•	•	•	•	•	•	•	•

Ranges marked with \*\*\* are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme (I) LOOP by Daikin is applicable for VRV units produced and sold in Europe (EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland). RXYSCQ-TVI, RXYSQ8-10-12TYI and RQCEQ-P3 are not part of the LOOP by Daikin programme.

- Single unit
- Multi combination

								Ca <sub>l</sub>	oacit	y (Hl	P)			VRV indoor units	Residential indoor units	LT Hydrobox HXY-A	HT Hydrobox HXHD-A	HRV units VAM-, VKM-	AHU connection EKEXV- + EKEQMCBA	AHU connection EKEXV- + EKEQFCBA	curtains CYV-DK-	
32	34	36	38	40	42	44	46	48	50	52	5	4	Description / Combination	8	Resid	Ė	Ē	HRV	AH X	AH EKE	Air	Remarks
											Г		VRV IV⁺ Heat Recovery REYQ-T	0	×	0	0	0	0	×	0	> Standard total system connection ratio limit: 50 ~ 130%
													with only VRV indoor units	✓								
													with LT/HT Hydroboxes	✓		<b>√</b>	✓	<b>√</b>				Max 32 indoor units, even on 16HP and larger systems     Total system connection ratio with HT hydroboxes up to 200% possible
												ŀ	HRV units VAM-, VKM-	<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>		<b>√</b>	
•	•	•	•	•	•	•	•	•	•	•		.  -	AHU connection EKEXV + EKEQMCBA	<b>√</b>				<b>√</b>	<b>✓</b>		<b>√</b>	<ul> <li>Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is allways necessary</li> </ul>
												-	Biddle air curtain CYV-DK-	<b>✓</b>				<b>✓</b>	<b>√</b>		<b>✓</b>	> Total system connection ratio with AHU is 50 ~ 110%
											t	+	VRV IV+ Heat Pump RYYQ-T(8) / RXYQ-T(9)	0	0	0	x	0	0	0	0	> Standard total system connection ratio limit: 50 ~ 130%
												-	with only VRV indoor units	<b>√</b>			~					> 200% total system connection ratio possible under special circumstances
											H	+										Only single-module systems (RYYQ 8~20 T / RXYQ 8~20 T)
•	•	•	•	•	•	•	•	•	•	•			with residential indoor units	✓	<b>√</b>			<b>√</b>				<ul> <li>Max 32 indoor units, even on 16HP, 18HP and 20HP systems</li> <li>Connection ratio: 80 ~ 130%</li> </ul>
													with LT Hydroboxes	$\checkmark$		✓		✓				<ul> <li>Max 32 indoor units, even on 16HP and larger systems</li> <li>Contact Daikin in case of multi-module systems (&gt;20HP)</li> </ul>
											Ī	Ī	HRV units VAM-, VKM-	✓	✓	✓		✓	✓		✓	
													AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	
											T		AHU connection EKEXV + EKEQFCBA							<b>✓</b>		> Total system connection ratio with AHU is 50 ~ 110%
•	•	•	•	•	•	•	•	•	•	•			Biddle air curtain CYV-DK-	<b>√</b>				<b>√</b>	<b>√</b>		<b>√</b>	
													<b>VRV IV-S</b> RXYSQ-/RXYSCQ-	0	0	×	×	0	0	×	0	> Standard total system connection ratio limit: 50 ~ 130%
													with VRV indoor units only	✓				✓	✓		✓	
													with residential indoor units only		✓							) With residential indoor: connection ratio limit: 80 $\sim$ 130%
													VRV IV i series SB.RKXYQ-T(8)	✓	×	×	×	✓	✓	×	✓	> Standard total system connection ratio limit: 50 ~ 130%
											H	+	VRV IV-C+ series RXYLQ-T	0	O	0	×	0	0	O	0	> Standard total system connection ratio limit: 70 ~ 130%
												- 1-	with VRV indoor units only	<b>√</b>				<b>✓</b>			<b>✓</b>	
	•	•	•	•	•								with residential indoor units only		✓							> With residential indoor: connection ratio limit: 80 ~ 130%
												- 1	with LT hydroboxes	<b>√</b>		✓		<b>√</b>				> Max. 32 indoor units, contact Daikin in case of multi-module systems (> 14HP)
												- 1	AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA	<b>✓</b>				✓	✓	<b>√</b>	<b>√</b>	> Total system connection ratio is 70~110%
													VRV III-Q+ series Replacement H/R RQCEQ-P3	<b>√</b>	x	x	x	✓	×	x	x	With AHU only connection ration is 90~110%      Standard total system connection ratio limit: 50 ~ 130%
•	•	•	•	•	•								<b>VRV IV-Q Replacement H/P</b> RXYQQ-T	✓	×	×	×	✓	<b>✓</b>	x	✓	> Standard total system connection ratio limit: 50 ~ 130%
											t		VRV IV-W+ series Water-cooled VRV	0	0	x	0	0	0	0	0	> Standard total system connection ratio limit: 50 ~ 130%
													RWEYQ-T9 with VRV indoor units	<b>√</b>			<b>✓</b>	<b>✓</b>	✓ ✓	<b>√</b>	<b>√</b>	, <del></del>
												-		<b>∨</b>	<b>✓</b>		•	<b>v</b> ✓	_	•	•	Only single-module systems (RWEYQ8-14T9) Max 32 indoor units Connection ratio: 80 – 130%
				•	•							-		<b>∨</b> ✓	•		<b>√</b>	*				Connection ratio: 80 ~ 130%  > only in heat pump version
	•											- 1	with HT hydrobox AHU connection	<b>∨</b> ✓			•		<b>✓</b>			> Total system connection ratio with AHU + X indoor is 50 ~ 110%
							_				-			-					-			> Total system connection ration with AHU only is 90~ 110%

 $<sup>{</sup>f O}_-$  connection of indoor unit possible, but not neccessarily simultaneously with other allowed indoor units  ${f v}_-$  connection of indoor unit possible even simultaneously with other checked units in the same row  ${f x}_-$  connection of indoor not possible on this outdoor unit system



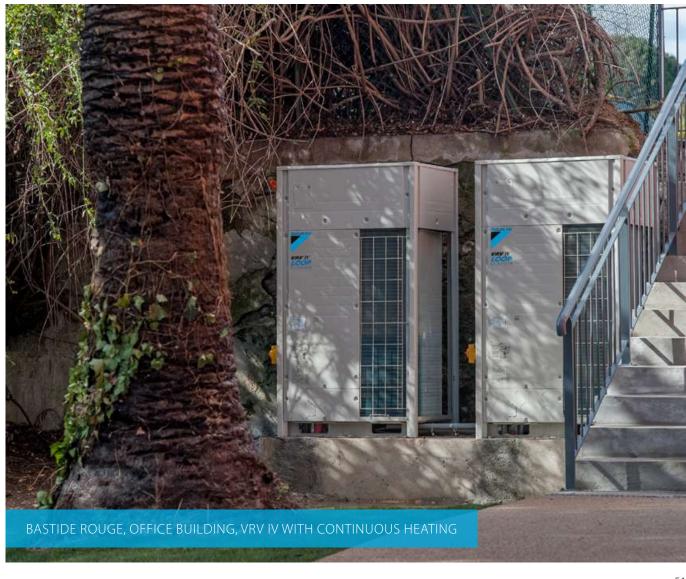












# VRV IV+ heat recovery

Best efficiency and comfort solution





# VRV IV standards:

# Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

# Continuous heating

The new standard in heating comfort

# VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to LT hydrobox for hot water
- > Connectable to HT hydrobox for hot water
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function





# Innovation in detail

# L∞P by Daikin

Make a positive choice and reuse refrigerant to avoid more than 150,000 kg of virgin gas being produced each year.

Insprired to help?

Find out more about Daikin's initiatives to build a circular economy of refrigerants: <a href="www.daikin.eu/building-a-circular-economy">www.daikin.eu/building-a-circular-economy</a>



# "Free" heat and hot water production

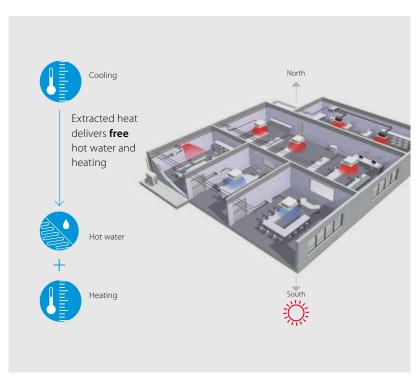
An integrated heat recovery system reuses heat from offices, server rooms, to warm other areas or create hot water.

# Maximum comfort

A VRV heat-recovery system allows simultaneous cooling and heating.

For hotel owners, this means a perfect environment for guests as they can freely choose between cooling or heating.

For offices, it means a perfect working indoor climate for both north and south-facing offices.

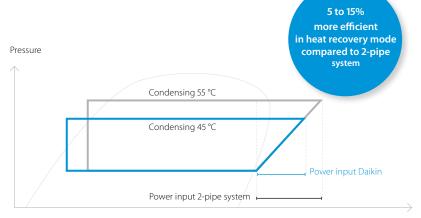


# Advantages of 3-pipe technology

### More "free" heat

Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

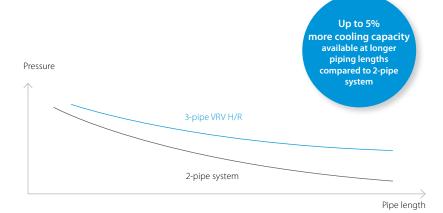
In a 2-pipe system, gas and liquid travel as a mixture so the condensing temperature needs to be higher in order to separate the mixed gas and liquid refrigerant. The higher condensing temperature means more energy is used to recover heat resulting in lower efficiency.



Enthalpy

# Lower pressure drop means more efficiency

- Smooth refrigerant flow in 3-pipe system thanks to 2 smaller gas pipes results in higher energy efficiency
- Disturbed refrigerant flow in large gas pipe on
   2-pipe system results in bigger pressure drop



# Maximum design flexibility and installation speed

- > Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- > Free combination of single and multi BS boxes

### Single port



BS1Q 10,16,25A

### Multi port: 4 - 6 - 8 - 10 - 12 - 16







BS 6, 8 Q14 A



BS 10, 12 Q14 A



BS 16 O14 A

# Fully redesigned BS boxes

# Maximum design flexibility and installation speed

- > Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- > Free combination of single and multi BS boxes

# Single port

- > Unique to the market
- > Compact and light to install
- > No drain piping needed
- > Ideal for remote rooms
- > Technical cooling function
- > Connect up to 250 class unit (28 kW)
- > Allows multi-tenant applications

# Multi port: 4 - 6 - 8 - 10 - 12 - 16

- > Up to 55% smaller and 41% lighter than previous range
- Faster installation thanks to a reduced number of brazing points and wiring
- > All indoor units connectable to one BS box
- > Fewer inspection ports needed
- > Up to 16 kW capacity available per port
- Connect up to 250 class unit (28kW) by combining 2 ports
- No limit on unused ports, permitting phased installation
- > Allows multi-tenant applications





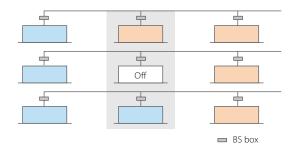
### Faster installation thanks to open connection

- No need to cut the pipe before brazing for indoor units smaller or equal to 5.6 kW (50 class)
- > Cut and braze the pipe for indoor units bigger or equal to 7.1 kW (63 class)



# Maximum comfort at all times

With the VRV BS box, any indoor unit not being used to switch between heating and cooling maintains the constant desired temperature. This is because our heat recovery system does not need to equalise pressure over the entire system after a change-over.



# **VRV IV+ heat recovery**

# Best efficiency & comfort solution

- > Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8!
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- » "Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- > The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- > Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.

- > Free combination of outdoor units to meet installation space or efficiency requirements
   > Wide piping flexibility: 30m indeer height difference maximum
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- > Contains all standard VRV features





Applies to units sold in Europe\*

Published data with real-life indoor units

Click or scan the code to access all technical information



Outdoor unit			REYQ	8U		10U	120	J	14U	1	6U	18U		20U
Capacity range			HP	8		10	12		14		16	18		20
Cooling capacity	Prated,c		kW	22.4		28.0	33.	5	40.0	4	5.0	50.4		52.0
Heating capacity	Prated,h		kW	13.7		16.0	18.	4	20.6	2	3.2	27.9		31.0
	Max.	6°CWB	kW	25.0	)	31.5	37.	5	45.0	5	0.0	56.5		63.0
ns,c			%	286.	1	264.8	257	.0	255.8	2.	43.1	250.6		246.7
ηs,h			%	165.1	1	169.7	183	.8	168.3	16	57.5	172.5		162.7
SEER				7.2		6.7		6.5		(	5.2	6.3		6.2
SCOP				4.2		4.3	4.7	7		4.3		4.4		4.1
Maximum number	of connect	able indoor units							64					
Indoor index	Min.			100.0	)	125.0	150	.0	175.0	20	0.00	225.0		250.0
connection	Nom.								-					
commeetion	Max.			260.0	0	325.0	390	.0	455.0	52	20.0	585.0		650.0
Dimensions	Unit	HeightxWidthxDepth	mm			35x930x76					1.685x1.2	40x765		
Weight	Unit		kg		,	230				314	,,		317	
Sound power level		Nom.	dBA	78.0		79.1	83.	4	80.9		5.6	83.8		87.9
Sound pressure level	Cooling	Nom.	dBA		57.0		61.	0	60.0		3.0	62.0		65.0
Operation range	Cooling	Min.~Max.	°CDB					-	-5.0~43.0					
	Heating	Min.~Max.	°CWB						-20.0~15.					
Refrigerant	Type/GWI							R	-410A/2.08					
	Charge		kg/TCO2Eg	9.7/20	).2	9.8/20.5	9.9/2				11.8/2	4.6		
Piping connections		OD	mm		9.52				12.7				15.9	
p.i.ig comicculons	Gas	OD	mm	19.1		22.2			,	2	8.6		1312	
	HP/LP gas		mm	15.9			19.1				2.2			28.6
	Total piping length		m						1,000					
Power supply		quency/Voltage	Hz/V						I~/50/380	-415				
Current - 50Hz	Maximum	fuse amps (MFA)	Α	20		25		32			40	)		50
<b>Outdoor unit Syst</b>	em + Mod	ule	REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	30U	32U
System	Outdoor u	unit module 1		REM	IQ5U		REYQ8U		REYQ10L	REYQ8U		REYQ12U		REYQ16U
	Outdoor (	unit module 2		REMQ5U	REY	Q8U	REYQ10U	REY	'Q12U	REYQ16U	REYQ14U	REYQ16U	REYQ18U	REYQ16U
Capacity range			HP	10	13	16	18	20	22	24	26	28	30	32
Cooling capacity	Prated,c		kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
Heating capacity	Prated,h		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	37.1	39.7	44.4	46.4
	Max.	6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	94.0	100.0
ηs,c			%	275.1	301.3	288.6	272.9	266.0	260.4	257.7	257.5	251.9	266.8	243.1
ηs,h			%	158.8	160.6	168.2	167.9	175.7	178.5	167.6	175.5	174.8	179.4	169.1
SEER				7.0	7.6	7.3	6.9	6.7	6.6	6	.5	6.4	6.7	6.2
SCOP				4.0	4.1	4	1.3	4	4.5	4.3	4.5	4.4	4.6	4.3
Maximum number	of connect	able indoor units							64					
Indoor index	Min.			125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0	375.0	400.0
connection	Nom.								-					
	Max.			325.0	423.0	520.0	585.0	650.0	715.0	780.0	845.0	910.0	975.0	1,040.0
Piping connections	Liquid	OD	mm	9.52	12	2.7		1	5.9			1	9.1	
=	Gas	OD	mm	22.2			28.6					34.9		
	HP/LP gas OD			19	9.1	2	2.2				28.6			
	Total piping System Actual length					500					1,0	000		
Power supply		quency/Voltage	Hz/V	İ				3N	I~/50/380	-415				
Current - 50Hz		fuse amps (MFA)	Α	İ	40		5				i3			30
								-			-			

Contains fluorinated greenhouse gases

<sup>\*</sup> EU member states, ÜK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland









em + Mod	ule	REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U
Outdoor (	unit module 1		REY	Q16U	REYQ8U	REY	Q10U	REYQ12U	REYQ14U		REYQ16U		REYQ18U
Outdoor u	unit module 2		REYQ18U	REYQ20U	REY	Q12U			REYQ16U			REY	Q18U
Outdoor u	unit module 3			-	REY	Q18U		REY	Q16U	REYQ18U			
		HP	34	36	38	40	42	44	46	48	50	52	54
Prated,c		kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Prated,h		kW	51.1	54.2	58.1	58.9	60.9	62.9	67.0	69.6	74.3	79.0	83.7
Max.	6°CWB	kW	106.5	113.0	119.0	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
		%	259.2	255.3	269.2	259.6	250.2	249.3	246.8	243.1	254.4	265.7	275.2
		%	172.0	166.3	176.0	176.1	167.8	171.9	168.8	168.5	170.3	171.7	173.3
			6.6	6.5	6.8	6.6	6	5.3	6	.2	6.4	6.7	7.0
			4.4	4.2	4	.5	4.3	4.4		4.3		4	.4
of connect	able indoor units							64					
Min.			425.0	450.0	475.0	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
Nom.								-					
Max.			1,105.0	1,170.0	1,235.0	1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Liquid	OD	mm						19.1					
Gas	OD	mm	34.9					4	1.3				
HP/LP gas	OD	mm	28	3.6					34.9				
	g System Actual	m		1,000									
	guency/Voltage	H <sub>7</sub> /V					3N	l~/50/380-	415				
			8	30				7507500	113		12	25	
											·		
		REMQ											
	HeightxWidthxDepth	mm					1,6		65				
External stati	c Max.	Pa						78					
pressure													
Cooling	Nom.	dBA						78.0					
Cooling	Nom.	dBA						57.0					
Cooling	Min.~Max.	°CDB						-5.0~43.0					
Heating	Min.~Max.	°CWB	/B -20.0~15.5										
Type/GWI							R-	410A/2,08	7.5				
Charge		kg/TCO2Eq						9.7/20.2					
Phase/Fre	quency/Voltage	cy/Voltage Hz/V					3N	~/50/380-	415				
		Α	20										
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Nom. Max. Liquid OD Gas OD HP/LP gas OD Total piping System Actual length Phase/Frequency/Voltage Maximum fuse amps (MFA)  lule Unit HeightxWidthxDepth	Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3  HP Prated,c	Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3  Prated,c Prated,h ReyQiBU  Prated,h Rey 95,4 Prated,h Rey 106,5 Rey 259,2 Rey 95,4 Rey 95,4 Rey 95,4 Rey 95,4 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5 Rey 106,5	Outdoor unit module 1	Outdoor unit module 1         REYQ16U         REYQ8U         REYQ8U           Outdoor unit module 3         -         REY           Prated,c         kW         95.4         97.0         106.3           Prated,h         kW         51.1         54.2         58.1           Max.         6°CWB         kW         106.5         113.0         119.0           %         259.2         255.3         269.2         259.2         255.3         269.2           %         172.0         166.3         176.0         172.0         166.3         176.0           %         172.0         166.3         176.0         176.0         6.8         4.4         4.2         4           %         172.0         166.3         176.0         176.0         6.8         6.8         6.6         6.5         6.8         6.8         4.4         4.2         4         45.0         475.0         450.0         475.0         475.0         170.0         1,235.0         1,170.0         1,235.0         1,170.0         1,235.0         1,170.0         1,235.0         1,170.0         1,235.0         1,170.0         1,235.0         1,170.0         1,235.0         1,170.0         1,235.0         1,2	Outdoor unit module 1         REYQ16U REYQ2U REYQ12U         REYQ18U REYQ2U         REYQ18U REYQ12U           Outdoor unit module 3         -         REYQ18U REYQ2U         REYQ18U           Prated,c         kW 95.4 97.0 106.3 111.9         111.9         111.9           Prated,h         kW 51.1 54.2 58.1 58.9         58.9         180.0 119.0 125.5         58.9           Max. 6°CWB         kW 106.5 113.0 119.0 125.5         259.2 255.3 269.2 259.6         259.6         259.2 255.3 269.2 259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6         259.6 <td>Outdoor unit module 1         REYQ16U         REYQ8U         REYQ10U           Outdoor unit module 2         REYQ18U REYQ2UU         REYQ12U         REYQ18U           Outdoor unit module 3         - REYQ18U REYQ2UU         REYQ18U         REYQ18U           HP         34         36         38         40         42           Prated, c         kW         95.4         97.0         106.3         111.9         118.0           Prated, h         kW         51.1         54.2         58.1         58.9         60.9           Max.         6°CWB         kW         106.5         113.0         119.0         125.5         131.5           Max.         6°CWB         kW         106.5         113.0         119.0         125.5         131.5           Max.         6°CWB         KW         106.6         176.0         176.0         176.1         167.8           6.6         6.5         6.8         6.6         6.5         6.8         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         4.0         4.0         4.0</td> <td>Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ16U REYQ20U REYQ12U         REYQ12U REYQ12U         REYQ12U REYQ12U         REYQ12U         ART         REYQ12U         REYQ12U         REYQ12U         ART         ART</td> <td>Outdoor unit module 1         REYQ16U         REYQ16U REYQ20U         REYQ12U         REYQ12U REYQ16U           Outdoor unit module 3        </td> <td>Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ16U REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U         REYQ18U         REYQ16U         REYQ18U         REYQ18U</td> <td>Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ16U REYQ18U REYQ10U REYQ18U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U         REYQ18U         REYQ16U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U&lt;</td> <td>Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ18U REYQ18U REYQ20U REYQ18U REYQ16U         REYQ16U REYQ18U         REYQ16U REYQ16U         REYQ16U REYQ18U         REYQ18U REYQ18U         REYQ18U REYQ18U         REYQ16U REYQ18U         REYQ18U REYQ18U         REYQ18U REYQ18U         REYQ18U REYQ18U REYQ18U         REYQ18U REYQ18U REYQ18U REYQ18U         REYQ18U REYQ18U REYQ18U REYQ18U REYQ18U REY</td>	Outdoor unit module 1         REYQ16U         REYQ8U         REYQ10U           Outdoor unit module 2         REYQ18U REYQ2UU         REYQ12U         REYQ18U           Outdoor unit module 3         - REYQ18U REYQ2UU         REYQ18U         REYQ18U           HP         34         36         38         40         42           Prated, c         kW         95.4         97.0         106.3         111.9         118.0           Prated, h         kW         51.1         54.2         58.1         58.9         60.9           Max.         6°CWB         kW         106.5         113.0         119.0         125.5         131.5           Max.         6°CWB         kW         106.5         113.0         119.0         125.5         131.5           Max.         6°CWB         KW         106.6         176.0         176.0         176.1         167.8           6.6         6.5         6.8         6.6         6.5         6.8         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         6.6         4.0         4.0         4.0	Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ16U REYQ20U REYQ12U         REYQ12U REYQ12U         REYQ12U REYQ12U         REYQ12U         ART         REYQ12U         REYQ12U         REYQ12U         ART         ART	Outdoor unit module 1         REYQ16U         REYQ16U REYQ20U         REYQ12U         REYQ12U REYQ16U           Outdoor unit module 3	Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ16U REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U         REYQ18U         REYQ16U         REYQ18U         REYQ18U	Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ16U REYQ18U REYQ10U REYQ18U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U REYQ16U         REYQ16U         REYQ18U         REYQ16U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U         REYQ18U<	Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3         REYQ18U REYQ18U REYQ20U REYQ18U REYQ16U         REYQ16U REYQ18U         REYQ16U REYQ16U         REYQ16U REYQ18U         REYQ18U REYQ18U         REYQ18U REYQ18U         REYQ16U REYQ18U         REYQ18U REYQ18U         REYQ18U REYQ18U         REYQ18U REYQ18U REYQ18U         REYQ18U REYQ18U REYQ18U REYQ18U         REYQ18U REYQ18U REYQ18U REYQ18U REYQ18U REY

Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Contains fluorinated greenhouse gases

# Individual branch selector for VRV IV heat recovery

- › Unique range of single and multi BS boxes for flexible and fast design
- > Compact & light to install
- > Ideal for remote rooms as no drain piping is needed
- Allows integration of server rooms into the heat recovery solution thanks to technical cooling function
- > Connect up to 250 class unit (28kW)
- > UNIQUE Faster installation thanks to open port connection
- > Allows multi tenant applications
- > Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T9 heat recovery units



# **Click** or **scan** the code to access all technical information

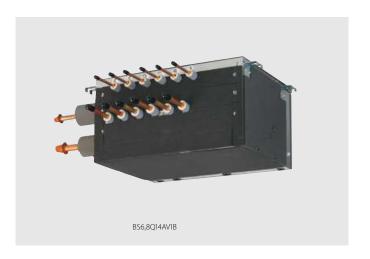


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Indoor unit				BS	1Q10A	1Q16A	1Q25A			
Power input	Cooling	Nom.		kW		0.005				
	Heating	Nom.		kW		0.005				
Maximum numbe	r of connectable i	ndoor units			6	8	8			
Maximum capacit	y index of connec	table indoor	units		15 < x ≤ 100	100 <x≤160< td=""><td>160<x≤250< td=""></x≤250<></td></x≤160<>	160 <x≤250< td=""></x≤250<>			
Dimensions	Unit	HeightxW	idthxDepth	mm	207x388x326					
Weight	Unit			kg	1	12 15				
Casing	Material				Galvanised steel plate					
Piping connections Outdoor unit Liquid OD		mm		9.5						
		Gas	OD	mm	15	5.9	22.2			
		Discharge gas	OD	mm	12	2.7	19.1			
	Indoor unit	Liquid	OD	mm		9.5				
		Gas	OD	mm	15	5.9	22.2			
Sound absorbing	thermal insulation	า			Foamed	d polyurethane Flame-resistant ne	edle felt			
Power supply	Phase					1~				
	Frequency			Hz	50					
	Voltage			V		220-240				
	Maximum fuse	amps (MFA)		Α		15				

# Multi branch selector for VRV IV heat recovery

- > Unique range of single and multi BS boxes for flexible and fast design
- > Major reduction in installation time thanks to wide range, compact size and light weight multi BS boxes
- > Up to 70% smaller and 66% lighter than previous series
- Faster installation thanks to a reduced number of brazing points and wiring
- > All indoor units connectable to one BS box
- > Less inspection ports needed compared to installing single BS haves
- > Up to 16kW capacity available per port
- > Connect up to 250 class unit (28kW) by combining 2 ports
- > No limit on unused ports allowing phased installation
- > **UNIQUE** Faster installation thanks to open port connection
- > **UNIQUE** Refrigerant filters for high reliability
- > Allows multi tenant applications
- > Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T9 heat recovery units



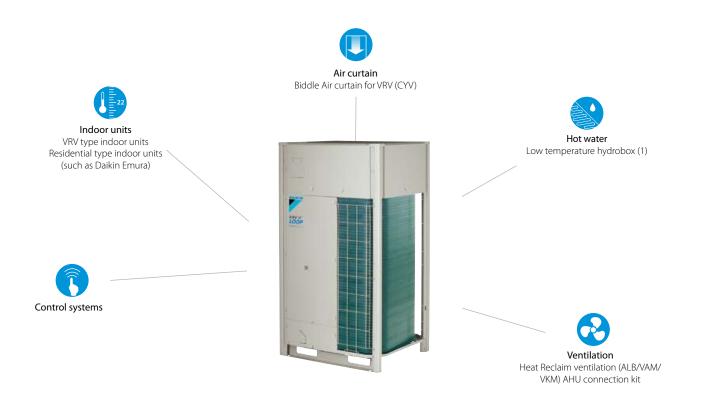
**Click** or **scan** the code to access all technical information



Indoor unit				BS	4Q14AV1B	6Q14AV1B	8Q14AV1B	10Q14AV1B	12Q14AV1B	16Q14AV1B		
Power input	Cooling	Nom.		kW	0.043	0.064	0.086	0.107	0.129	0.172		
·	Heating	Nom.		kW	0.043	0.064	0.086	0.107	0.129	0.172		
Maximum number	of connectable i	ndoor units			20	30	40	50	60	64		
Maximum number	of connectable i	ndoor units	per branch				5	5				
Number of branche	es				4	6	8	10	12	16		
Maximum capacity index of connectable indoor units					400	600		7:	50			
Maximum capacity	index of connec	table indoo	r units per bra	nch			14	10				
Dimensions	Unit	HeightxW	/idthxDepth	mm	298x370x430	298x5	x580x430 298x820x430			298x1,060x430		
Weight	Unit			kg	17	24	26	35	38	50		
Casing	Material						Galvanised	steel plate				
Piping connections	s Outdoor unit	Liquid	OD	mm	9.5	12.7	12.7 / 15.9	15.9	15.9 / 19.1	19.1		
		Gas	OD	mm	22.2 / 19.1	28.6 / 22.2	28.6	28.6	28.6 / 34.9			
		Discharge gas	OD	mm	19.1 / 15.9	19.1 / 22.2 19.1 / 22.2 / 28.6			28.6			
	Indoor unit	Liquid	OD	mm			9.5 /	6.4				
		Gas	OD	mm			15.9	/ 12.7				
	Drain				VP20 (I.D. 20/O.D. 26)							
Sound absorbing tl	hermal insulation	n					Urethane foam, p	olyethylene foan	1			
Power supply	Phase				1~							
	Frequency			Hz			5	0				
	Voltage			V		220-440						
	Maximum fuse	amps (MFA)		Α	15							

# VRV IV+ heat pump

# Daikin's optimum solution with top comfort





# VRV IV standards:

# Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

# Continuous heating

The new standard in heating comfort

# VRV configurator

Software for simplified commissioning, configuration and customisation

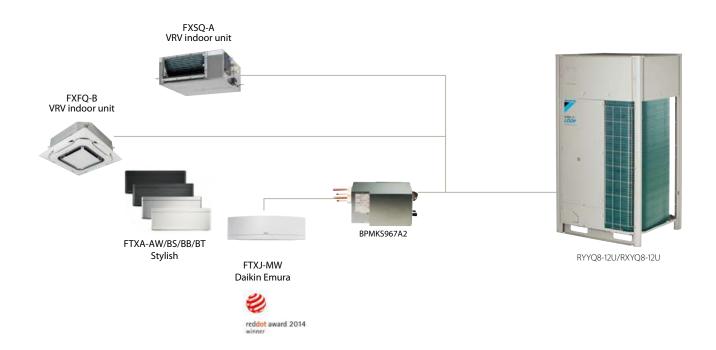
- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units (Only for single modules)
- > Connectable to LT hydrobox (1)
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

(1) Special order unit needed to connect LT hydroboxes with multi outdoor unit systems For detailed explanation of these functions refer to vrv iv technologies tab



# Wide range of indoor units

Freely combine VRV indoor units with stylish indoor units (Daikin Emura, ...)



# Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS
Daikin Emura - Wall mounted unit	FTXJ-MW/MS	•	•	•		•
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT	•	•	•	•	•
Floor standing unit	FVXM-F		•	•		•

# VRV IV

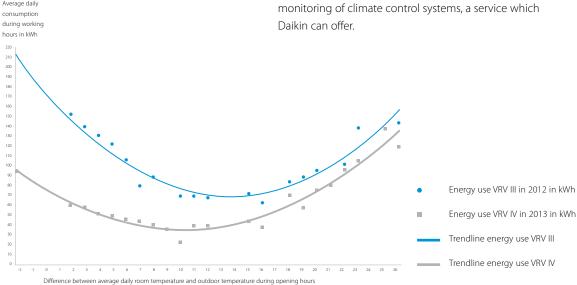
# proven in practice: 40% more efficient

A field trial at a German fashion chain store demonstrated how the innovative features of VRV IV have improved energy efficiency dramatically over previous models.

# Results: up to 60% less energy consumed

The results of the trial showed that the new VRV IV system consumed much less energy, particularly when cooling, compared with the VRV III system – in some cases up to 60% less. When heating, savings were an average of 20%.

The Unterhaching trial demonstrates how VRV IV heat pump technology uses a renewable energy source – air - to provide a complete and environmentally sustainable solution for heating, cooling, and ventilation in commercial environments. The trial also shows that businesses can only identify and control energy wastage through careful and intelligent monitoring of climate control systems, a service which Daikin can offer.



	VRV III 20HP (2 modules)	VRV IV 18HP (1 module)					
Period	March 2012 - February 2013	March 2013 - February 2014					
Avg (kWh/Month)	2.797	1.502					
Total (KWh)	33.562	18.023					
Total (€)	6.041	3.244					
Yearly (operation cost/m² (€/m²)	9,9	5,3					
	46% savings = € 2.797						

# Measured data

### Fashion store Unterhaching (Germany)

- > Floor space: 607m<sup>2</sup>
- > Energy cost: 0,18 €/kWh
- > System taken into account for consumption:
- VRV IV heat pump with continuous heating
- Round flow cassettes (without auto cleaning panel)
- VAM for ventilation (2x VAM2000)
- Biddle Air curtain.



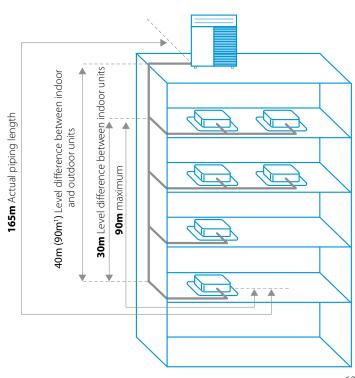
# Free combination of outdoor units

Freely combine outdoor units to optimise for small footprint, continuous heating, highest efficiency or any other combination

# Flexible piping design

Total piping length	1000m
Longest length actual (Equivalent)	165m (190m)
Longest length after first branch	90m¹
Level difference between indoor and outdoor units	90m¹
Level difference between indoor units	30m

<sup>1</sup> Contact your local dealer for more information and restrictions

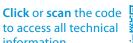


<sup>2</sup> in case outdoor unit is located below indoor units

# **VRV IV+ heat pump**

### Daikin's optimum solution with top comfort

- > By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loop-by-
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- > Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura,...)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- > Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Available as heating only by irreversible field setting
- > Contains all standard VRV features



information



RYYQ-U









Already fully compliant to LOT 21 - Tier 2

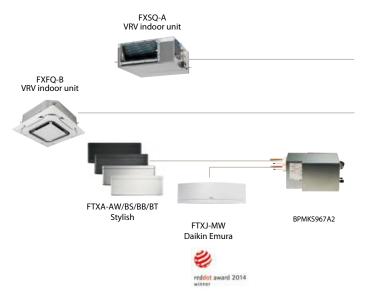
**Applies to units** sold in Europe\*

### **Published data with** real-life indoor units

Outdoor unit			RYYQ/RXYQ	8U	10	U	12U	14U	16U		18U	20U	
Capacity range			HP	8	10	)	12	14	16		18	20	
Cooling capacity	Prated,c		kW	22.4	28.	0	33.5	40.0	45.0		50.4	52.0	
Heating capacity	Prated,h		kW	13.7	16.	0	18.4	20.6	23.2		27.9	31.0	
	Max.	6°CWB	kW	25.0	31.	5	37.5	45.0	50.0		56.5	63.0	
Recommended co	mbination			4 x FXFQ50AV	EB 4 x FXFQ	63AVEB 6	6 x FXFQ50AVEB	1x FXFQ50AVEB	+ 4 x FXFQ63	BAVEB 3 x FXF	Q50AVEB + 2:	FXFQ50AVEB+	
								5 x FXFQ63AVE	B + 2 x FXFQ8	OAVEB 5 x FX	5 x FXFQ63AVEB 6 x FXFQ63AVE		
ηs,c			%	302.4	267	.6	247.8	250.7	236.	5 2	38.3	233.7	
ηs,h			%	167.9	168	.2	161.4	155.4	157.8	3 1	63.1	156.6	
SEER				7.6	6.8	3		5.3		6.0		5.9	
SCOP					4.3		4.1		4.0		4.2	4.0	
Maximum number	of connect	able indoor units						64 (1)					
Indoor index	Min.			100.0	125	.0	150.0	175.0	200.	) 2	25.0	250.0	
connection	Max.			260.0	325	.0	390.0	455.0	520.0	) 5	85.0	650.0	
Dimensions	Unit	HeightxWidthxDepth	mm	1,685x930x765 1,685x1,240x7				55					
Weight	Unit		kg		25	2			319		378		
Sound power leve	Cooling	Nom.	dBA	78.0	79.	.1	83.4	80.9	85.6	.   :	83.8	87.9	
Sound pressure leve	l Cooling	Nom.	dBA		57.0		61.0	60.0	63.0	)	52.0	65.0	
Operation range	Cooling	Min.~Max.	°CDB					-5.0~43.0					
	Heating	Min.~Max.	°CWB					-20.0~15.5					
Refrigerant	Type/GW							R-410A/2,087.5					
	Charge		kg/TCO2Eq	5.9/12.3	6.0/1	2.5	6.3/13.2	10.3/21.5	10.4/2	1.7 11.	7/24.4	11.8/24.6	
Piping connection	s Liquid	OD	mm		9,52			12.7			15.9		
	Gas	OD	mm	19.1	22.	2			28.6				
	Total pipin	g System Actual	m	m 1,000									
Power supply		quency/Voltage	Hz/V					3N~/50/380-4	¥15				
Current - 50Hz	Maximum	fuse amps (MFA)	Α	20	25	5		32		40		50	
Outdoor unit sys	tem		RYYO/RXYO	22U	24U	26U	28U	30U	32U	34U	36U	38U	
System	Outdoor	ınit module 1		10	8		12			16		8	
•	Outdoor	ınit module 2		12	16	14	16	18	16	18	20	10	
	Outdoor	ınit module 3						-				20	
Capacity range			HP	22	24	26	28	30	32	34	36	38	
Cooling capacity	Prated,c		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	
Heating capacity	Prated,h		kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	
	Max.	6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5	
Recommended co	mbination			6 x FXFQ50AVEB+	4 x FXFQ50AVEB+	7 x FXFQ50AV	VEB + 6 x FXFQ50AVI	B + 9 x FXFQ50AVEB +	8 x FXFQ63AVEB +	3 x FXFQ50AVEB	2 x FXFQ50AVEB	+ 6 x FXFQ50AVEB+	
				4 x FXFQ63AVEB	4 x FXFQ63AVEB+	5 x FXFQ63A	AVEB 4 x FXFQ63AVI	B+ 5 x FXFQ63AVEB	4 x FXFQ80AVEB	9 x FXFQ63AVEB	10 x FXFQ63AVE	B 10 x FXFQ63AVEB	
					2 x FXFQ80AVEB		2 x FXFQ80A\	EB		2 x FXFQ80AVEB	+2xFXFQ80AVE	В	
ηs,c			%	274.5	269.9	264.2	2 257.8	256.8	251.7	253.3	250.8	272.4	
ηs,h			%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	
SEER				6.9	6.8	6.7		6.5	6	5.4	6.3	6.9	
SCOP				4.4	4.3		4.2	4.3	4	1.2	4.1	4.3	
Maximum number	of connect	able indoor units						64 (1)					
Indoor index	Min.			275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	
connection	Max.			715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	
Piping connection	s Liquid	OD	mm	15	.9				19.1				
	Gas	OD	mm	1 28.6 34.9 41.3								41.3	
	Total pipin	g System Actual	m					1,000					
Power supply		quency/Voltage	Hz/V					3N~/50/380-4	115				
Current - 50Hz		fuse amps (MFA)	A			3		514 750/500=		30		100	









# Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS
Daikin Emura - Wall mounted unit	FTXJ-MW/MS	•	•	•		•
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT	•	•	•	•	•
Floor standing unit	FVXM-F		•	•		•

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

Outdoor unit syst	em		RYYQ/RXYQ	40U	42U	44U	46U	48U	50U	52U	54U		
System	Outdoor	unit module 1		1	0	12	14		16		18		
	Outdoor	unit module 2		12			16			1	8		
	Outdoor	unit module 3		18		1	6		18				
Capacity range			HP	40	42	44	46	48	50	52	54		
Cooling capacity	Prated,c		kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2		
Heating capacity	Prated,h		kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7		
	Max.	6°CWB	kW	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5		
Recommended combination				9 x FXFQ50AVEB +	12 x FXFQ63AVEB	6 x FXFQ50AVEB +	1x FXFQ50AVEB+	12 x FXFQ63AVEB	3 x FXFQ50AVEB +	6 x FXFQ50AVEB +	9 x FXFQ50AVE		
				9 x FXFQ63AVEB	+4xFXFQ80AVEB	8 x FXFQ63AVEB +	13 x FXFQ63AVEB	+ 6 x FXFQ80AVEB	13 x FXFQ63AVEB	14 x FXFQ63AVEB	15 x FXFQ63AVE		
						4 x FXFQ80AVEB	+ 4 x FXFQ80AVEB		+4xFXFQ80AVEB	+2xFXFQ80AVEB			
ηs,c			%	263.5	261.2	255.9	254.9	251.7	252.8	253.7	254.1		
ηs,h			%	170.0	165.5	164.5	162.0	162.8	165.2	167.2	169.4		
SEER				6.7	6.6	6.5			6.4				
SCOP				4.3	4	.2	4	l.1	4.2	4	.3		
Maximum number	of connect	able indoor units					64	ł (1)					
Indoor index	Min.			500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0		
connection	Max.			1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0		
Piping connections	Liquid	OD	mm				19	9.1					
	Gas	OD	mm		41.3								
	Total pipin	g System Actual	m				1,0	000					
	length												
Power supply	Phase/Fre	quency/Voltage	Hz/V				3N~/50	/380-415					
Current - 50Hz	Maximum	n fuse amps (MFA)	Α	100				125		125			
Outdoor unit mod	lule for		RYMQ	8U	10U	12U		ŧU	16U	18U	20U		
continuous heatir	ng combin	ations	KYMQ	80	100	120	12	+0	160	180	200		
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x930x	765			1,685x1,240	x765			
Weight	Unit		kg		198			275		308	1		
Fan	External stati	ic Max.	Pa					78					
	pressure												
Sound power level	Cooling	Nom.	dBA	78.0	79.1	83.4	80	0.9	85.6	83.8	87.9		
Sound pressure leve	Cooling	Nom.	dBA		57.0	61.0	60	0.0	63.0	62.0	65.0		
Operation range	Cooling	Min.~Max.	°CDB	-5.0~43.0									
	Heating	Min.~Max.	°CWB					-20.0~15.5					
Refrigerant	Type/GWI	Р		R-410A/2,087.5									
-	Charge		kg/TCO2Eq	5.9/12.3	6.0/12.5	6.3/13	3.2 10.3	/21.5 11.	.3/23.6	11.7/24.4	11.8/24.6		
Power supply	Phase/Frequency/Voltage Hz/V			3N~/50/380-415									
Current - 50Hz		n fuse amps (MFA)	Α	20	25	32	3	32	40	40	50		

<sup>(1)</sup>Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). | Contains fluorinated greenhouse gases \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

# VRV IV S-series heat pump

# The most compact VRV

Most compact unit on the market 823mm high & 94kg





Indoor units
VRV type indoor units
Residential type indoor units
(such as Daikin Emura)



**Air curtain**Biddle Air curtain for VRV (CYV)



Ventilation
Heat Reclaim ventilation
ALB/VAM/VKM AHU
connection kit







RXYSQ4,5,6TV9/TY9



RXYSQ8, 10, 12TY1



# VRV IV standards:

# Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

# VRV configurator

Software for simplified commissioning, configuration and customisation

- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units
- > Full inverter compressors
- > Refrigerant cooled PCB (not available on RXYSQ4,5,6,8 TY9/TY1)
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

For detailed explanation of these functions refer to vrv iv technologies tab

# Widest range of front blow units on the market



Compact: Easy for a two person crew to move and install.

# Lowest height on the market

# Ideal for roof installations

> The low height mini VRV can be hidden in many places where a twin fan unit cannot due to its height.

# Ideal to install below a window on a Balcony

Daikin VRV IV S-series compact can be installed discretely on a balcony thanks to it's compact dimensions, offering you air conditioning while being almost unnoticeable.



Unnoticeable for parapet installation



Low height make the unit invisible from inside and unnoticeable from the outside

# Space saving design

The VRV S-series is slimmer and more compact, resulting in significant savings in installation space.





# Wide range of indoor units

# Connect VRV units...



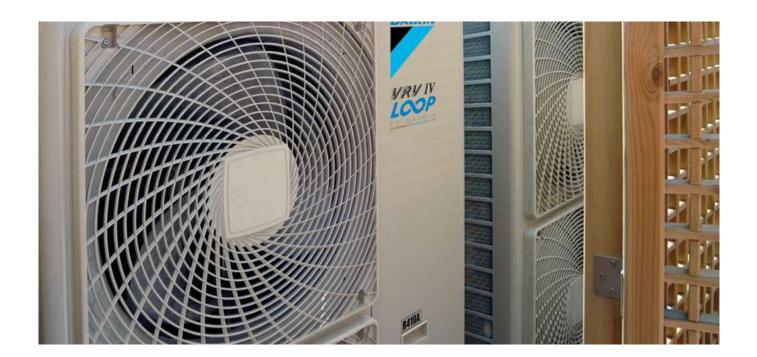
# Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXJ-MW/MS		•	•	•		•		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		•	•	•	•	•		
Ceiling suspended unit	FHA-A(9)				•		•	•	
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	

For more info about Daikins stylish indoor units, please check our indoor unit-portfolio

 $<sup>\</sup>ensuremath{^{\star}}\xspace$  VRV indoor units and stylish indoor units cannot be combined.

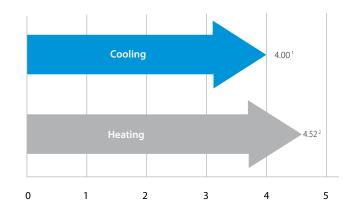
<sup>\*</sup> To connect stylish indoor units a BPMKS unit is needed



# High COP values

A major feature of VRV IV S-series is its exceptional energy efficiency. The system achieves high COPs during both cooling and heating operation by the use of refined components and functions.

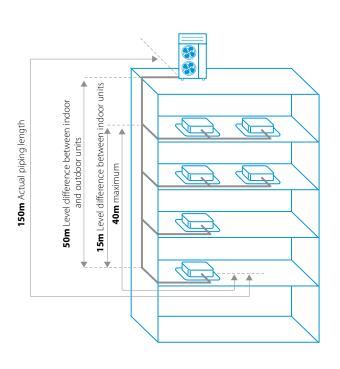
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



# Flexible piping design

	VRV indoors connected	Stylish indoors connected
Total piping length	300m	140m
Longest length actual	120m (4-8HP)/ 150m (10-12HP)	
Minimum length between outdoor unit and first branch	-	5m
Minimum piping length between BP and indoor unit	-	2m
Maximum piping length between BP and indoor unit	-	15m
Longest length after first branch	40m	40m
Level difference between indoor and outdoor units	50m (40m <sup>1</sup> )	30m
Level difference between indoor units	15m	15m

<sup>&</sup>lt;sup>1</sup> Outdoor unit in lowest position

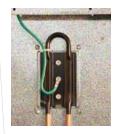


# VRV IV S-series

# technologies

# Super aero grille

The spiral shaped ribs are aligned with the direction of discharge flow in order to minimise turbulence and reduce noise.



# Refrigerantcooled PCB

- Reliable cooling because it is not influenced by ambient air temperature
- Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%

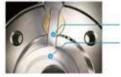
# Improved fan blades







Air streams are smoothed around V-cut and reduces air flow loss



Vane fixed to rotor Rotor

# Compressor

Swing type > no oil separator Vane & rotor are unified resulting in:

- > Reduced noise level
- > Longer compressor life
- Higher efficiency thanks to the absence of internal refrigerant leakage between high and low pressure side

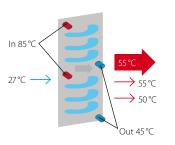
# E-Pass heat exchanger

Optimising the heat exchanger's path layout prevents heat being transferred from the overheated gas section to the sub-cooled liquid section which is a more efficient way to use the heat exchanger.

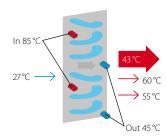
# I-demand function

Limit maximum power consumption.
The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.

### Standard heat exchanger



### e-Pass heat exchanger



Time

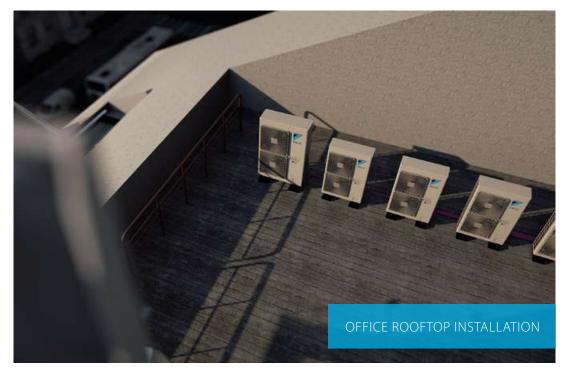
### Power consumption















# **VRV IV S-series compact** heat pump

### The most compact VRV

- > Compact & lightweight single fan design makes the unit almost unnoticeable
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura,...
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- > Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- > Night quiet mode reduces sound pressure with up to 8dBa
- > Contains all standard VRV features



Already fully compliant to LOT 21 - Tier 2

**Published data with** real-life indoor units



# Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXJ-MW/MS		•	•	•		•		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		•	•	•	•	•		
Ceiling suspended unit	FHA-A(9)				•		•	•	
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	

### **Click** or **scan** the code to access all technical information





Outdoor unit			RXYSCQ	4TV1	5TV1	6TV1			
Capacity range			HP	4	5	6			
Cooling capacity	Prated,c		kW	12.1	14.0	15.5			
Heating capacity	Prated,h		kW	8.4	9.7	10.7			
	Max.	6°CWB	kW	14.2 (2)	16.0 (2)	18.0 (2)			
Recommended combination				3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2			
ης,ς			%	322.8	303.4	281.3			
ηs,h			%	182.3	185.1	186.0			
SEER				8.1	7.7	7.1			
SCOP				4.6		4.7			
Maximum number of connectable indoor units			64 (1)						
Indoor index	Min.			50.0	62.5	70.0			
connection	Max.			130.0	162.5	182.0			
Dimensions	Unit HeightxWidthxDepth mm			823x940x460					
Weight	Unit		kg	89					
Sound power level	Cooling	Nom.	dBA	68.0	69.0	70.0			
Sound pressure level	Cooling	Nom.	dBA	51.0	52.0	53.0			
Operation range	Cooling	Min.~Max.	°CDB	-5.0~46.0					
	Heating	Min.~Max.	°CWB	-20.0~15.5					
Refrigerant	Type/GWI	)		R-410A/2,087.5					
	Charge		kg/TCO2Eq		3.7/7.7				
Piping connections Liquid OD			mm	9.52					
	Gas	OD	mm	15.	19.1				
	Total piping	g System Actual	m						
Power supply	Phase/Frequency/Voltage Hz/V			1~/50/220-240					
Current - 50Hz	Maximum	fuse amps (MFA)	Α		32				





#### **VRV IV S-series heat pump**

#### Space saving solution without compromising on efficiency

- > Space saving trunk design for flexible installation
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera floor or stylish, ...
- > Wide range of units (4 to 12HP) suitable for projects up to 200m² with space limitations
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- > Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- > Contains all standard VRV features





Applies to units sold in Europe\*

for RXYSQ4,5,6TV9/TY9 units



Published data with real-life indoor units

#### Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXJ-MW/MS		•	•	•		•		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		•	•	•	•	•		
Ceiling suspended unit	FHA-A(9)				•		•	•	
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	

## **Click** or **scan** the code to access all technical information

Type/GWP

Charge

**Outdoor unit** 

Refrigerant





RXYSQ/RXYSQ/RXYSQ



RXYSO-TY

4TV9

Capacity range			HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated,h		kW	8.0	9.2	10.2	8.0	9.2	10.2	14.9	19.6	23.5
	Max.	6°CWB	kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
ης,ς			%	278.9	270.1	278.0	269.2	260.5	268.3	247.3	247.4	256.5
ηs,h			%	171.6	182.9	192.8	154.4	164.5	174.1	165.8	162.4	169.6
SEER			ĺ	7.0	6.8	7.0	6.8	6.6	6.8	6.	3	6.5
SCOP			i	4.4	4.6	4.9	3.9	4.2	4.4	4.2	4.1	4.3
Maximum number	of connec	table indoor units						64				
Indoor index	Min.			50.0	62.5	70.0	50.0	62.5	70.0	100.0	125.0	150.0
connection	Nom.		ĺ					-				
	Max.		i	130.0	162.5	182.0	130.0	162.5	182.0	260.0	325.0	390.0
Dimensions	Unit	HeightxWidthxDepth	mm			1,345x9	900x320			1,430x940x320	1,615x9	40x460
Weight	Unit		kg			10	04			144	175	180
Sound power leve	Cooling	Nom.	dBA	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0
Sound pressure level	Cooling	Nom.	dBA	50.0	5	1.0	50.0	51	1.0	55	.0	57.0
Operation range	Cooling	Min.~Max.	°CDB			-5.0	~46.0				-5.0~52.0	
	Heating	Min ~Max	°CWB					-20.0~15.5				



6TY9

R-410A/2,087.5

3.6/7.5

5.5/11.5

7.0/14.6

10TY1

kg/TCO2Eq

8.0/16.7

## VRV IV i-series heat pump

for indoor installation







**Ventilation** Heat Reclaim ventilation (ALB/VAM/ VKM) AHU connection kit



#### VRV IV standards:

#### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

#### VRV configurator

Software for simplified commissioning, configuration and customisation

- > Night quiet mode
- > Full inverter compressors
- > Low noise function
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

For detailed explanation of these functions refer to VRV iv technologies tab

#### Invisible

- Consider a wider range of properties because outdoor installation is not a factor
- Open for business sooner because getting building permits is simplified
- > Seamless integration into the surroundings as only the grille is visible
- > No need for a roof installation or back alley installation







#### Quiet

- > Highly suited to densely populated areas such as city centres thanks to their low operating sound
- > Dedicated modes reduce sound further to comply with inner-city noise regulations



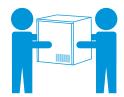
Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

#### Lightweight parts

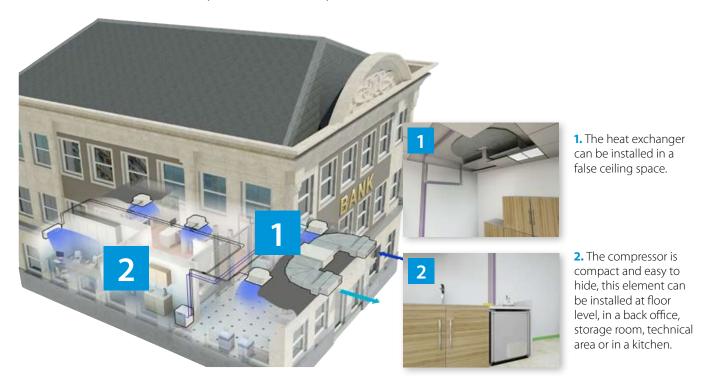




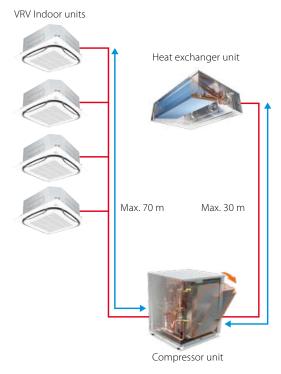
#### Unique split outdoor unit for indoor installation

Compact and easy to hide, the compressor can be installed at floor level, in a back office, storage room, technical area or in a kitchen, while the heat exchanger can be installed in a false ceiling space. This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.

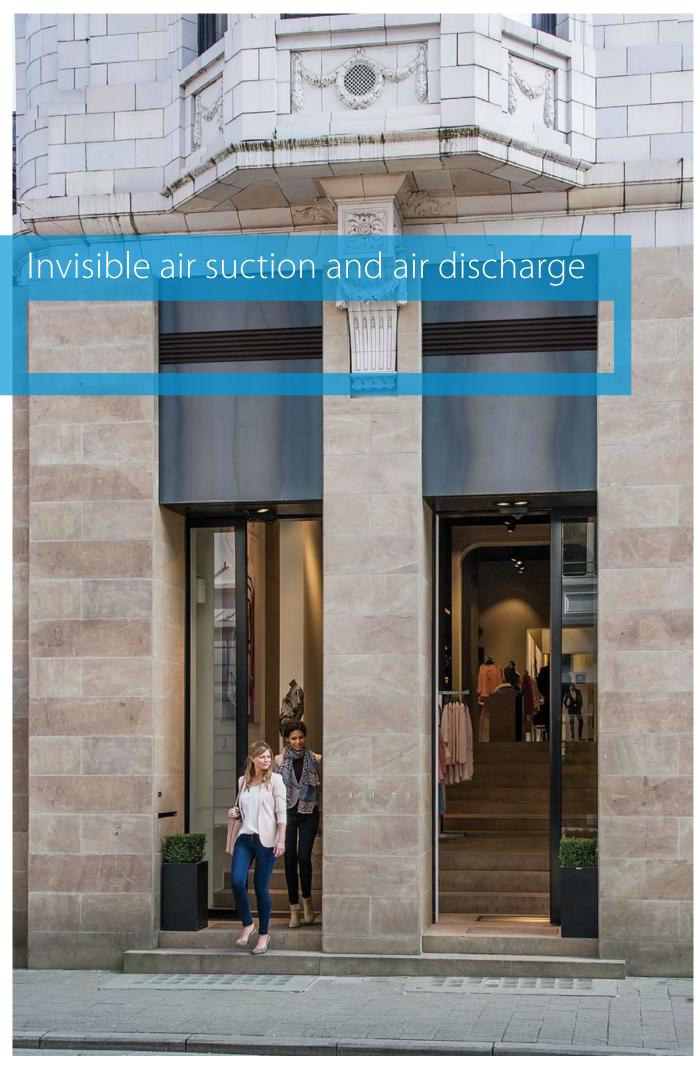
#### Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.



Max. total piping length: 140m (5HP) / 300m (8HP)



## The problem solver

## for many installation issues

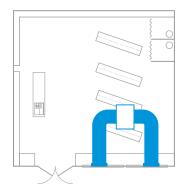
## Example 1 High flexibilty

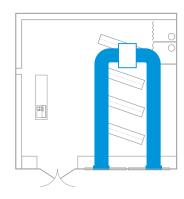
## The other way around: install the modules where if fits your customer, not where it is the best fit for the outdoor unit

If there is no flat roof or backgarden available for installation of the outdoor unit, VRV IV i-series offers the solution.

The suction and exhaust can be installed at the façade or at the rear of the building as the inverter fans allows ESP to be adjusted to the length of the ductwork.

The compressor module can be installed up to 30 m from the heat exchanger unit in a storage room, ....





Flexible installation thanks to inverter fans



#### Example 2

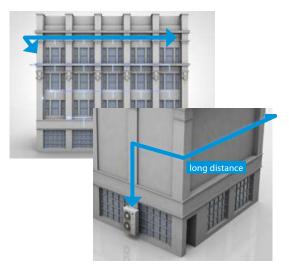
## Shorter pipe runs to the indoor units reduces installation costs compared to rooftop or back alley installation

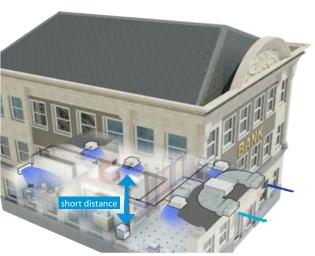
#### Back alley or rooftop needs very long piping lengths

- > Long installation time
- > Additional cost
- > Capacity loss

#### VRV IV i-series can be installed close to the indoor units

- > Quicker installation
- > Lower cost
- > No capacity loss





#### Example 3

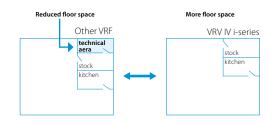
## No need for bulky and expensive sound countermeasures

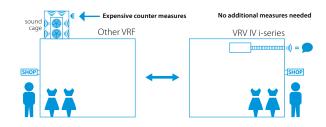
#### To comply with city regulation countermeasures are needed for standard units

- Expensive sound cages might be needed to reduce sound (standard outdoor unit sound = 50~60 dBA)
- > Inside installation using expensive floor space

#### With VRV IV i-series you easily comply with city regulation without additional measures

- Operation sound 47 dBA for 5HP model (flexible to install in corridor, shop area, ...) or lower with attenuator
- No floor space is used as units can be installed in false ceiling, against the wall, . . .

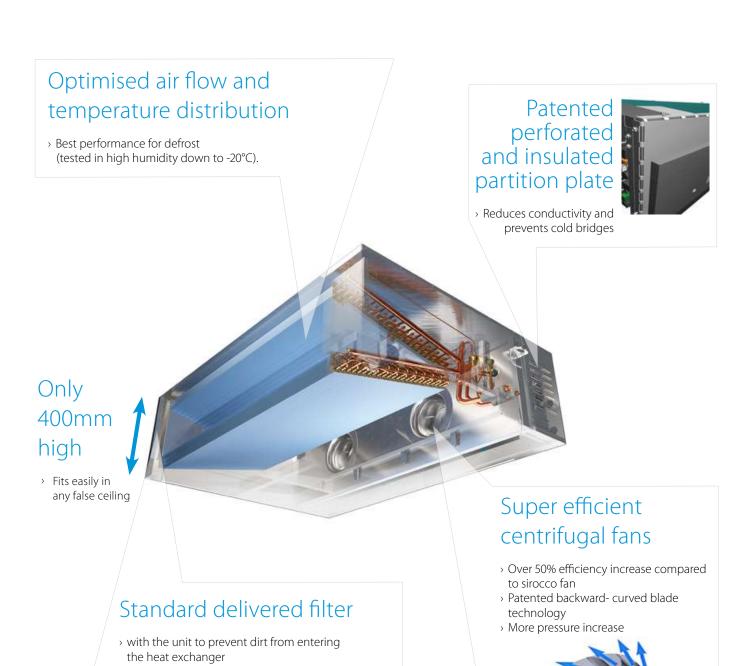




# Patented V-shape heat exchanger

for best surface to volume ratio





# Compressor unit with rotating switchbox

Flexible and easy to install

> Avoids any corrosion risk

Rotating switchbox Flexibility by back and top > For easy access to all compressor parts refrigerant connection possibility Only **77 kg** (5HP) Tube-in-tube subcool heat exchanger > This patented heat exchanger increases the capacity of the system by ensuring optimal state No drain connection of refrigerant in the heat exchanger module. This needed in turn increases overall efficiency. > Thanks to natural evaporation > Minimized cold surface to reduce dew formation > Fast and easy installation Non welded Small footprint bottom casing > Maximizes useable floor space (600 x 554 mm for 5HP)

> Can easily be mounted in a storage room, back office, ...

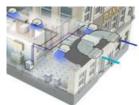




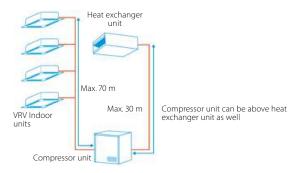
#### **VRV IV heat pump for** indoor installation

#### The invisible VRV

> Unique VRV heat pump for indoor installation



> Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor



> Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible

#### **Click** or **scan** the code to access all technical information











- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > Lightweight units (max. 105kg) can be installed by two people
- > Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- > Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- > Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- > Contains all standard VRV features



Already fully compliant to LOT 21 - Tier 2

**Published data with** real-life indoor units

System			SB.F	KXYQ	5T8	8T
System	Heat exchanger uni	t			RDXYQ5T8	RDXYQ8T
	Compressor unit				RKXYQ5T8	RKXYQ8T
Capacity range	•			HP	5	8
Cooling capacity	Prated,c			kW	14.0	22.4
Heating capacity	Prated,h			kW	10.4	12.9
	Max.	6°CWB		kW	16.0	25.0
Recommended cor	mbination				4 x FXSQ32A2VEB	4 x FXMQ50P7VEB
ηs,c				%	200.1	191.1
ηs,h				%	149.3	140.9
SEER					5.1	4.9
SCOP					3.8	3.6
Maximum number	of connectable indo	or units			10	17
Indoor index	Min.				62.5	100.0
connection	Nom.				-	•
	Max.				162.5	260.0
Piping connections	s Liquid	OD		mm	-	•
	Gas	OD		mm	-	•
	Between Compressor	Liquid	OD	mm	12	7
	module (CM) and heat	Gas	OD	mm	19.1	22.2
	exchanger module (HM	)				
	Between Compressor		OD	mm	9.1	52
	module (CM) and	Gas	OD	mm	15.9	19.1
	indoor units (IU)					
	Total piping length	System	Actual	m	140	300

				Heat exchanger	module - RDXYQ	Compressor me	odule - RKXYQ
<b>Outdoor unit mod</b>	lule			5T8	8T	5T8	8T
Dimensions	Unit	HeightxWidthxDept	n mm	397x1,45	56x1,044	701x600x554	701x760x554
Weight	Unit		kg	95	103	79	105
Fan	Air flow rate	Cooling Nom.	m³/min	55	100	-	
Sound power level	Cooling	Nom.	dBA	77.0	81	60.0	64
Sound pressure level	Cooling	Nom.	dBA	47.0	54	47.0	48
Refrigerant	Type/GWP			R-41	0A/-	R-410A/	2,087.5
	Charge		kg/TCO2Eq	-	/-	2.00/4.20	4.00/8.35
Power supply	Phase/Frequency/	Voltage	Hz/V	1N~/50/	/220-240	3N~/50/	380-415
Current - 50Hz	Maximum fuse am	ps (MFA)	Α	1	0	16	20

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being;  $50\% \le CR \le 130\%$ ). | Contains fluorinated greenhouse gases EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

## VRV IV C+ series

## Where heating is priority without compromising on efficiency





Air curtain Biddle Air curtain for VRV (CYV)





#### **VRV IV standards:**

#### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

#### VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units (Only for single modules)
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function







#### RXYLQ-T

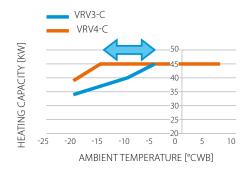


## Where heating is priority without compromising on efficiency



#### High heating capacity at low ambient temperatures

> Stable heating capacity available down to -15°C WB!



## \*\*\*

#### High partial load efficiency

- > New vapour injection scroll compressor optimised for low load
  - UNIQUE back-pressure control: Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak and increasing efficiency
  - UNIQUE Injection structure with check valve: Prevents volume backflow during low load operation typically occuring with standard vapour injection compressors
- > Variable Refrigerant Temperature adjusts refrigerant temperature to match the load





\* \* \*

Hot gas bypass prevents ice buildup at the bottom of the heat exchanger





#### High seasonal efficiency

#### > Measured with indoor units for real applications!

> ALL information for indoor units used available on our eco-design website: Already fully compliant https://energylabel.daikin.eu/eu/en\_US/lot21.html





#### The known VRV IV standards

- ☑ Variable Refrigerant Temperature
- ✓ VRV configurator

#### **Total solution**



Daikin Emura Wall mounted unit



Fully flat cassette



Biddle air curtain



Intelligent Manager



Air handling unit for ventilation



Low temperature hydrobox

## VRV IV heat pump, optimised for heating

#### Where heating is priority without compromising on efficiency

- By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loop-bydaikin
- Specifically developed for heating operation in low ambient conditions, making it suitable for single source heating
- > Stable heating capacity down to -15°C, thanks to vapour injection compressor
- > Extended operation range down to -25°C in heating

## **Click** or **scan** the code to access all technical information

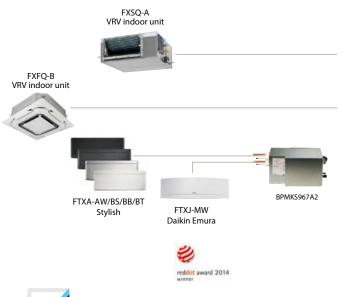


- > High reliability in severe conditions, thanks to hot gas bypass circuit in the heat exchanger
- > 15% increased heating capacity at high relative humidity (2°CDB/1°CWB and RH=83%) vs previous model
- Shorter defrost and heat up time, compared to standard VRV heat pump
- > Very economical solution as a smaller outdoor unit model can be used compared to the standard series
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura,...)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor, ...
- Free combination of outdoor units to meet installation space or efficiency requirements
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 500m
- > Less installation time and smaller footprint compared to previous model thanks to removal of function unit

			RXYLQ		10T		12T		14	•	
			HP		10		12		14		
Prated,c			kW		28.0		33.5		40.	0	
Prated,h			kW		31.5		37.5		45.	0	
Max.	6°CWB		kW		31.5		37.5		45.	0	
nbination				4 x FXI	MQ63P7VEB	6	x FXMQ50P7V	EB 1x	FXMQ50P7VEB+	5 x FXMQ63P7VEB	
			%		251.4		274.4		270	.1	
			%		144.3		137.6		137	.1	
					6.36		6.93		6.8	3	
					3.68		3.51		3.5	0	
of connect	able indoo	r units					64 (1)				
Min.					175		210		24	5	
Nom.					250		300		350	0	
Max.					325		390		45	5	
Unit	HeightxW	/idthxDepth	mm				1,685x1,240x76	5			
Unit			kg				302				
Cooling	Nom.		dBA	7	77.0 (4)			81.0 (4)			
Cooling	Nom.		dBA	5	66.0 (5)			59.0 (5)			
Cooling	Min.~Max	۲.	°CDB				-5~43				
Heating	Min.~Max	ζ.	°CWB				-25~16				
Type/GWF							R-410A/2,087.5	i			
Charge			kg/TCO2Eq				11.8/24.6				
Liquid	OD		mm		9,5			12,7			
Gas	OD		mm		22.2		28.6				
Total piping length	g System	Actual	m				500 (6)				
Phase/Fre	quency/Vo	ltage	Hz/V				3N~/50/380-41	5			
Maximum	fuse amps	(MFA)	Α		25			32			
			RXYLO	16T	18T	20T	22T	24T	26T	28T	
Outdoor ι	ınit module	e 1		RXMLQ8T		RXYLQ10T		RXY	LQ12T	RXYLQ14T	
Outdoor ι	ınit module	2		RXM	LQ8T	RXYLQ10T	RXY	LQ12T	RXY	/LQ14T	
			НР	16	18	20	22	24	26	28	
Prated,c			kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0	
Prated,h			kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0	
Max.	6°CWB		kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0	
nbination								+ 4 x FXMQ63P7VE	B + 5 x FXMQ63P7VE		
			%	261.8	255.7	251.4	263.0	274.4	270.8	270.1	
			%	138.0	140.5	144.3	140.3	137.6		137.1	
			,-	6.62	6.47	6.36	6.65	6.93	6.84	6.83	
				3.52	3.59	3.68	3.58	3.51		3.50	
of connect	able indoo	r units					64 (1)				
Min.				280	315	350	385	420	455	490	
Nom.				400	450	500	550	600	650	700	
Max.				520	585	650	715	780	845	910	
Liquid	OD		mm	12,7			5,9			19,1	
				,							
Gas	OD		mm		28	3.6			34.9		
		Actual	mm m		28	5.6	500 (6)		34.9		
	Max. nbination  of connect Min. Nom. Max. Unit Unit Cooling Cooling Heating Type/GWF Charge Liquid Gas Total piping length Phase/Fre Maximum  Outdoor u  Outdoor u  Prated,c Prated,h Max. nbination	Max. 6°CWB nbination  of connectable indoo Min. Nom. Max. Unit HeightxW Unit Cooling Nom. Cooling Nom. Cooling Min.~Max Heating Min.~Max Heating Min.~Max Type/GWP Charge Liquid OD Gas OD Total piping System length Phase/Frequency/Vo Maximum fuse amps  Outdoor unit module	Max. 6°CWB nbination  of connectable indoor units  Min. Nom. Max. Unit HeightxWidthxDepth Unit Cooling Nom. Cooling Min.~Max. Heating Min.~Max. Type/GWP Charge Liquid OD Gas OD Total piping System Actual length Phase/Frequency/Voltage Maximum fuse amps (MFA)  Outdoor unit module 1 Outdoor unit module 2  Prated,c Prated,h Max. 6°CWB nbination	Max. 6°CWB kW nbination  of connectable indoor units  Min. Nom. Max. Unit HeightxWidthxDepth mm Unit kg Cooling Nom. dBA Cooling Nom. dBA Cooling Min.~Max. °CDB Heating Min.~Max. °CWB Type/GWP Charge kg/TCO2Eq Liquid OD mm Gas OD mm Total piping System Actual m length Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A  RXYLQ  Outdoor unit module 1 Outdoor unit module 2  HP Prated,c kW Prated,h kW Max. 6°CWB kW mbination  of connectable indoor units Min. Nom.	Max. 6°CWB kW nbination 4 x FXI   %   %   %   %   %   %   %   %   %	Max. 6°CWB   kW   31.5   A x FXMQ63P7VEB   251.4   96   144.3   6.36   3.68   6.36   3.68   6.36   3.68   6.36   3.68   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.36   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.32   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35   6.35	Max. 6°CWB	Max.         6°CWB         kW         31.5         37.5         37.5         and phination         4 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         6 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         3 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         3 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         6 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         6 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPTVEB         4 x FXMQGSPT	Max.         6°CWB         kW         31.5         37.5         lat           abination         4 x FXMQ63P7VEB         6 x FXMQ50P7VEB         1 xl           96         251.4         274.4         1 xl           96         144.3         137.6         1           10         3.68         3.51         1           10 connectable indoor units         64 (1)         175         210         1           Min.         175         210         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>Max. 6°CWB         kW         31.5         3.7.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5</td>	Max. 6°CWB         kW         31.5         3.7.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5         4.5.5	













Published data with real-life indoor units

Applies to units sold in Europe\*

#### Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS
Daikin Emura - Wall mounted unit	FTXJ-MW/MS	•	•	•		•	
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT	•	•	•	•	•	
Floor standing unit	FVXM-F		•	•		•	

BPMKS box needed to connect RA indoors to VRV IV

Outdoor unit			RXYLQ-T	30T	32T	34T	36T	38T	40T	42T
System	Outdoor	unit module 1			RXYLQ10T			RXYLQ12T		RXYLQ14T
	Outdoor	unit module 2		RXYI	_Q10T		RXYLQ12T		RXYL	.Q14T
	Outdoor	unit module 3		RXYLQ10T		RXYLQ12T			RXYLQ14T	
Capacity range			HP	30	32	34	36	38	40	42
Cooling capacity	Prated,c		kW	84.0	89.5	95.0	100.5	107.0	113.5	120.0
Heating capacity	Prated,h		kW	94.5	101	107	113	120	128	135
	Max.	6°CWB	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0
Recommended cor	mbination					+ 9 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	-		
ns s			%	251.4	259.1	266.8	+2xFXMQ80P7VEB 274.4	271.6	270.3	270.1
ηs,c ηs,h			% %	144.3	141.6	139.2	137.6	2/1.0	137.1	2/0.1
SEER			70	6.36	6.55	6.74	6.93	6.86	6.	83
SCOP				3.68	3.61	3.56	3.51	0.80	3.50	03
Maximum number	of connect	table indoor units		3.00	3.01	3.30	64 (1)		3.30	
Indoor index	Min.	table maddi amis		525	560	595	630	665	700	735
connection	Nom.			750	800	850	900	950	1,000	1,050
	Max.			975	1,040	1,105	1,170	1,235	1,300	1,365
Piping connections	Liquid	OD	mm		, , ,	,	19,1	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
. 3	Gas	OD	mm		34.9			41	.3	
	Total pipin	g System Actual	m				500			
Current - 50Hz	Maximum	n fuse amps (MFA)	Α		8	0			90	
Outdoor unit mod	lule		RXMLQ-T				8T			
Dimensions	Unit	HeightxWidthxDepth	mm				1,685x1,240x765	5		
Weight	Unit		kg				302			
Fan	External stati	c Max.	Pa				78			
	pressure									
Sound power level	Cooling	Nom.	dBA				75.0			
Sound pressure level	l Cooling	Nom.	dBA	BA 55.0						
Operation range	Cooling	Min.~Max.	°CDB		-5~43					
	Heating	Min.~Max.	°CWB				-25~16			
Refrigerant	Type/GW	Р					R-410A/2,087.5			
	Charge		kg/TCO2Eq				11.8/24.6			
Power supply		equency/Voltage	Hz/V							
Current - 50Hz	Maximum	n fuse amps (MFA)	A	A 20 (7)						

<sup>(1)</sup>Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being:  $50\% \le CR \le 130\%$ ). | Contains fluorinated greenhouse gases \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



## Replacement VRV

## Quick & quality replacement for R-22 and R-407C systems









#### **Air curtain**Biddle Air curtain for VRV (CYV)



#### Ventilation Heat Reclaim ventilation (VAM/VKM) AHU connection kit



\_VRV III





Heat pump

## Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

#### VRV configurator

Software for simplified commissioning, configuration and customisation

For more information on these features refer to the VRV IV technologies tab

- > 7 segment display
- > Automatic refrigerant charge
- > Night quiet mode
- > Low noise function
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

#### VRVIII-Q

#### Heat pump & Heat recovery

- > Automatic refrigerant charge
- > Night quiet mode
- > Low noise function
- > Full inverter compressors
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

## Replacement technology

The quick and quality way of upgrading R-22 and R-407C systems

#### These benefits will convince your customer:

#### Drastically improve your efficiency, comfort and reliability

#### Avoid loss of business

Replacing now prevents unplanned, lengthy downtime of air conditioning systems. It also avoids loss of business for shops, complaints from guests in hotels, lower working efficiency and loss of tenants in offices.

#### Quick and easy installation

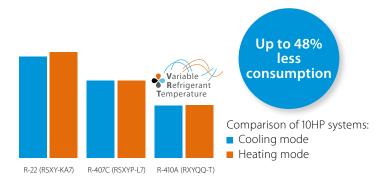
No interruption of daily business while replacing the system thanks to phased-in, fast installation.

#### Smaller footprint, more performance

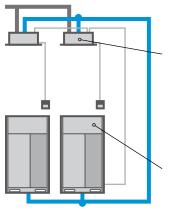
Thanks to a smaller footprint, Daikin outdoor units save space. Also, more indoor units can be connected to the new outdoor unit compared to the old system, allowing to increase capacity.

#### Lower long-term costs

EU Directives prohibit system repairs with R-22 after January 1, 2015. Delaying the required R-22 replacement until an unplanned system breakdown is a losing game. Replacement day will come. Installing a technically advanced system lowers energy consumption and maintenance costs from day one.



#### Keep your refrigerant piping



The Daikin low-cost upgrade solution

#### Replace indoor units and BS boxes

Contact your local dealer to check compatibility in case you need to keep the indoor units.

Replace outdoor units

#### Your copper pipes will last for multiple generations

- copper pipes used in air conditioning systems tested by Daikin wil last over 60 years after installation.
- > Japan/China have replaced with VRV Q-series already 10 years ago

#### Umeda Center Building, Japan

- > original A/C system: 20 years in use
- > replacement with VRV Q-series: 2006 - 2009
- > capacity up from 1620HP to 2322HP
- > SHASE renewal award:





#### VRV-Q benefits to increase your profit:

#### Optimise your business

#### Less installation time

Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

#### Lower installation costs

Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

#### Replace non-Daikin systems NON DAIKIN DAIKIN

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

#### Easy as one-two-three

A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody wins.

#### Automatic refrigerant charge

The unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and ensures that the system will operate perfectly. Not knowing the exact piping lengths because of changes or mistakes in case you didn't do the original installation or replacing a competitor installation no longer poses a problem.

#### Automatic pipe cleaning

There is no need to clean inside piping as this is handled automatically by the VRV-Q unit. Finally the test operation is performed automatically to save time.

#### Compare installation steps

#### Conventional solution

- Recover refrigerant
- 2 Remove units
- Remove refrigerant pipes
- Install new piping and wiring
- Install new units
- Leak test
- Vacuum drying
- Refrigerant charging
- Collect contamination
- 10 Test operation

#### **VRV-Q**

- Recover refrigerant
- 2 Remove units

Re-use existing piping and wiring

- 3 Install new units
- 4 Leak test
- Vacuum drying
- 6 Auromatic refrigerant charging, cleaning and testing



Up to 45% shorter installation time

#### One touch convenience:

- > Measure and charge refrigerant
- > Automatic pipe cleaning
- > Test operation







#### Replacement VRV, heat recovery

#### Quick & quality replacement for R-22 and R-407C systems

- Cost effective and fast replacement as only the outdoor and indoor unit needs to be replaced, meaning almost no work has to be carried out inside the building
- Efficiency gains of more than 40% can be realized, thanks to technological developments in heat pump technology and the more efficient R-410A refrigerant
- > Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- > Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- > Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- Possibility to add indoor units and increase capacity without changing the refrigerant piping
- Possibility to spread the various stages of repclacement thanks to the modular design of the VRV system
- Accurate temperature control, fresh air provision, air handling units and Biddle air curtains all integrated in a single system requiring only one single point of contact (RXYQQ-U only)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant
- > Temperature and full inverter compressors (RXYQQ-U only)
- > Free combination of outdoor units to meet installation space or
- > efficiency requirements (RXYQQ-U only)





Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

## Click or scan the code to access all technical information





<b>Outdoor unit Sys</b>	tem	RQCEQ	280P3	460P3	500P3	540P3	712P3	744P3	816P3	
System	Outdoor unit module 1		RQEQ140P3	RQEQ	140P3	RQEQ180P3	RQEQ	140P3	RQEQ180P3	
•	Outdoor unit module 2		RQEQ140P3	RQEQ140P3	RQEQ	180P3	RQEQ	180P3	RQEQ212P3	
	Outdoor unit module 3		-		RQEQ180P3		RQEQ180P3	RQEQ	212P3	
	Outdoor unit module 4				-			RQEQ212P3		
Capacity range		HP	10	16	18	20	24	26	28	
Cooling capacity	Prated,c	kW	28.0	46.0	50.0	54.0	70.0	72.0	78.0	
Heating capacity	Prated,h	kW	32.0	52.0	56.0	60.0	78.4	80.8	87.2	
Recommended co	ombination		4 x FXMQ63P7VEB	4 x FXMQ63P7VEB	4 x FXSQ32A2VEB	12 x FXSQ40A2VEB	4 x FXSQ32A2VEB	4 x FXSQ32A2VEB	7 x FXSQ40A2VEB	
				+2xFXMQ80P7VEB	+8 x FXSQ40A2VEB		+9 x FXSQ40A2VEB	+6xFXSQ40A2VEB	+9 x FXSQ50A2VE	
							+3 x FXSQ50A2VEB	+6 x FXSQ50A2VEB		
ηs,c		%	200	191	201	198	19	94	204	
ηs,h		%	159	161	150	148	153	15	55	
SEER						-				
SCOP						-				
Maximum numbe	r of connectable indoor units		21	34	39	43	52	56	60	
Indoor index	Min.		140	230	250	270	356	372	408	
connection	Nom.		280	50	00	540	712	744	816	
	Max.		364	598	650	702	926	967.0	1,061	
Piping connection	ns Liquid OD	mm	9.52	12.7		15.9		19	9.1	
	Gas OD	mm	22.2		28	3.6		34	1.9	
	Total piping System Actual	m				300				
	length									
Power supply	Phase/Frequency/Voltage	Hz/V				3~/50/400	0			
Current - 50Hz	Maximum fuse amps (MFA)	Α	30	50	6	0	8	0	90	

Outdoor unit mo	dule		RQEQ-P3	140P3	180P3	212P3
Dimensions	Unit	HeightxWidthxDepth	mm		1,680x635x765	
Weight	Unit		kg	1	75	179
Fan	Air flow rat	e Cooling Nom.	m³/min	95	110	)
	Type				Propeller fan	
Sound power leve	l Cooling	Nom.	dBA	79	83	87
Sound pressure leve	el Cooling	Nom.	dBA		-	
Operation range	Cooling	Min.~Max.	°CDB		-5~43	
-	Heating	Min.~Max.	°CWB		-20~15.5	
Refrigerant	Type/GW	P			R-410A/2,087.5	
_	Charge		kg/TCO2Eq	10.3/21.5	10.6/22.1	11.2/23.4
Power supply	Phase/Fre	quency/Voltage	Hz/V		3~/50/380-415	
Current - 50Hz	Maximun	fuse amps (MFA)	A	15	20	22.5

Contains fluorinated greenhouse gases



RXYQQ8-12U

3N~/50/380-415



#### Replacement VRV, heat pump



**Applies to units** sold in Europe\*



RQYQ-P

length Phase/Frequency/Voltage

Power supply



BYYOO/BOYO B



Hz/V 3~/50/380-415

Click or scan the code to access all technical information

Outdoor unit			RXY	QQ/RQYQ-P	140P	80	10U	120	140	16U	18U	20U
Capacity range				HP	5	8	10	12	14	16	18	20
Cooling capacity	Prated,c			kW	14.0	22.4	28.0	33.5	40.0	45.0	50.4	52.0
Heating capacity	Prated,h			kW	16.0	13.7	16.0	18.4	20.6	23.2	27.9	31.0
	Max.	6°CWB		kW	-	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Recommended con	nbination				4 x FXSQ32A2VEB	4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB	4 x FXFQ63AVEB	3 x FXFQ50AVEB	2 x FXFQ50AVE
									+ 5 x FXFQ63AVEB	+2 x FXFQ80AVEB	+5 x FXFQ63AVEB	+6 x FXFQ63AVE
ηs,c				%	194	302.4	267.6	247.8	250.7	236.5	238.3	233.7
ηs,h				%	137	167.9	168.2	161.4	155.4	157.8	163.1	156.6
SEER					-	7.6	6.8	6	.3	6	.0	5.9
SCOP					-	4	.3	4.1	4	.0	4.2	4.0
Maximum number	of connect	able indooi	runits		10				64 (1)			
Indoor index	Min.				62.5	100.0	125.0	150.0	175.0	200.0	225.0	250.0
connection	Nom.				125				-			
	Max.				162.5	260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	HeightxW	idthxDepth	mm	1,680x635x765	1	1,685x930x76	5		1,685x1,	240x765	
Weight	Unit		•	kg	175		198		2	75	30	08
Fan	Air flow rate	Cooling	Nom.	m³/min	95				-			
Sound power level	Cooling	Nom.		dBA	79	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Sound pressure level		Nom.		dBA	-	57	7.0	61.0	60.0	63.0	62.0	65.0
Operation range	Cooling	Min.~Max		°CDB	-5~43				-5.0~43.0			
,	Heating	Min.~Max		°CWB	-20~15.5				-20.0~15.5			
Refrigerant	Type/GWP	1						R-410A	/2,087.5			
•	Charge			kg/TCO2Eq	11.1/23.2	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	11.3/23.6	11.7/24.4	11.8/24.6
Piping connections		OD		mm	9.52		52		12.7			5.9
	Gas	OD		mm	15.9	19.1	22.2			28.6		
	Total pipino	System	Actual	m				30	00			
	length	•										

Current - 50Hz	Maximum fuse amps	(MFA) A	15 20 25 32							40		50	
Outdoor unit Syst	em + Module	RXYQQ	22U	24U	26U	28U	30U	32U	34U	36U	38U	40U	42U
System	Outdoor unit module	21	RXYQQ10U	RXYQQ8U		RXYQQ12U	J	F	XYQQ16I	Ú	RXYQQ8U	RXYC	Q10U
•	Outdoor unit module	2	RXYQQ12U	RXYQQ16U	RXYQQ14U	RXYQQ16U	RXYQQ18U	RXYQQ16U	RXYQQ18U	RXYQQ20U	RXYQQ10U	RXYQQ12U	RXYQQ16U
	Outdoor unit module	3					-				RXYQQ20U	RXYQQ18U	RXYQQ16U
Capacity range		HP	22	24	26	28	30	32	34	36	38	40	42
Cooling capacity	Prated,c	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	111.9	118.0
Heating capacity	Prated,h	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	62.3	62.4
	Max. 6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5	125.5	131.5
Recommended co	mbination		6 x FXFQ50AVEB	4 x FXFQ50AVEB	7 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB	8 x FXFQ63AVEB	3 x FXFQ50AVEB	2 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB	12 x FXFQ63AVEB
			+4xFXFQ63AVEB	+4xFXFQ63AVEB	+5xFXFQ63AVEB	+4xFXFQ63AVEB	+5xFXFQ63AVEB	+4xFXFQ80AVEB	+9xFXFQ63AVEB	+10 x FXFQ63AVEB	+10 x FXFQ63AVEB	+9xFXFQ63AVEB	+4xFXFQ80AVEB
				+2xFXFQ80AVEB		+2xFXFQ80AVEB			+2xFXFQ80AVEB	+2xFXFQ80AVEB			
ης,ς		%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4	263.5	261.2
ηs,h		%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	170.0	165.5
SEER			6.9	6.8	6.7	6	.5	6	.4	6.3	6.9	6.7	6.6
SCOP			4.4	4.3	4	.2	4.3	4	.2	4.1	4	.3	4.2
Maximum number	of connectable indoor	runits						64					
Indoor index	Min.		275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0
connection	Nom.							-					
	Max.		715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0	1,365.0
Piping connection	s Liquid OD	mm	15	5.9					19.1				
	Gas OD	mm	28.6			34	1.9				41	1.3	
	Total piping System	Actual m						300					
	length												
Power supply	Phase/Frequency/Vo	ltage Hz/V					3N	~/50/380-	415				
Current - 50Hz	Maximum fuse amps	(MFA) A		6	53			8	0			100	

Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | Contains fluorinated greenhouse gases

\* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

## Water cooled VRV IV W+ series

Ideal for high rise buildings, using water as heat source

Unified range for heat pump & heat recovery and standard & geothermal series





#### VRV IV standards:

#### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

#### VRV configurator

Software for simplified commissioning, configuration and customisation

For more information on these features refer to the VRV IV technologies tab

- > 7 segment display
- > Full inverter compressors
- > Connectable to stylish indoor units
- > Connectable to LT hydrobox
- > Connectable to HT hydrobox
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > Manual demand function





#### Welcome a new range of features

#### More flexibility

- > Mixed connection of HT hydroboxes and VRV indoor units
- > Connects to stylish indoor units such as Daikin Emura, Nexura, ... (no mixed connection with other indoors possible)
- > Extension of the range: 8-10-12-14HP, combinable up to 42HP while keeping the most compact casing in the market
- > Extended piping length up 165m (actual)
- > Extended indoor unit height difference to 30m

#### Most compact casing in the market!







8 to 14 HP

16 to 28 HP

30 to 42 HP

#### More capacity

 Up to 72% increased capacity (!) per model thanks to new compressor and larger heat exchanger

#### Easier commissioning & customisation

- > 7 segment display
- > 2 analogue input signals allowing external control of
- ON-OFF (e.g. compressor)
- Operation mode (cooling / heating)
- Limit of capacity
- Error signal

#### Unique zero heat dissipation principle



- No need for ventilation or cooing in the technical room
- Control heat dissipation to achive maximum efficiency: set target technical room temperature and unit regulates actual heat dissipation

#### **Total solution**



Daikin Emura



Biddle air curtain



FTXA-AW/BS/BB/BT Stylish



Air handling unit for ventilation



Fully flat cassette



Low temperature hydrobox



Intelligent Manager



High temperature hydrobox

#### With all existing standard functions





#### Indoor installation makes unit invisible from the outside

- Seamless integration in the surrounding architecture as you cannot see the unit
- Highly suited for sound sensitive areas as there is no external operation sound
- Very flexible indoor installation as there is no heat dissipation
- Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation

# Unified range for heat pump & heat recovery and standard & geothermal series

#### Variable water flow control

- > The variable water flow control option reduces excessive energy use by the circulation pump.
- > By controlling a variable water valve, the water flow is reduced when possible, saving energy.
- > Via 0~10 volt

#### Lower refrigerant concentration levels

Water-cooled VRV systems typically have less refrigerant per system making it ideal to comply with the EN378 legislation limiting the amount of refrigerant in hospitals and hotels.

#### The refrigerant levels remain limited thanks to:

- > limited distance between outdoor and indoor unit
- modularity: enabling small systems per floor instead of one big system. Thanks to the water circuit heat recovery is still possible in the entire building

#### Maximum design flexibility and installation speed

- > Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- > A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- > Free combination of single and multi BS boxes

# Cooling tower (Closed type), boiler Flow Valve Input Signal Inverter Pump

#### Single port



BS1Q 10,16,25A

#### Multi port: 4 - 6 - 8 - 10 - 12 - 16

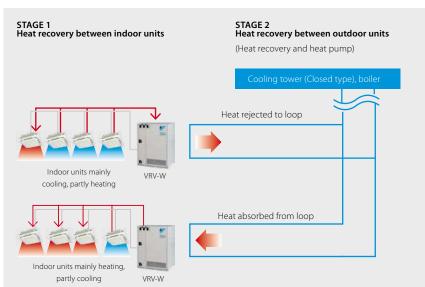


BS 4 Q14 A

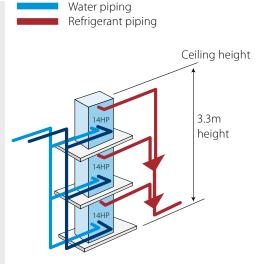




#### 2-stage heat recovery



#### Stacked configuration







#### A great and well-known example of a Daikin Total Solution leading to high energy-efficient HVAC consumption

- > A combination of VRV, Sky Air and Applied systems ensuring all offices and common areas are fully air conditioned.
- > Water-cooled VRV as the main contributor to total HVAC energy efficiency due to its two-stage heat recovery system.
- > Flexibility: individual thermal control and comfort with VRV on each floor and space.
- > Problem-free connection between Daikin units and the LonWorks BMS system ensures the building's total energy consumption is properly monitored and controlled.

#### Location

48 Lancu de Hunedoara Boulevard Bucharest Romania

#### **Building details**

Built-up area: 24,728 m<sup>2</sup>
Total usable area: 20,020 m<sup>2</sup>
Floors: 4 basements, 15 floors, technical floor
Building height: 72 m
Office space per level: approx. 1,000 m<sup>2</sup>

#### **Daikin systems installed**

- > 67 x VRV water-cooled units
- > 2 x VRV outdoor heat pump unit
- → 289 VRV indoor units (265 ducts, 24 x cassettes)
- > 5 x Sky Air with Roundflow Cassettes
- > 4 x air-cooled water chillers
- > 11 x DMS504B51 (LonWorks gateway)

#### **Awards**

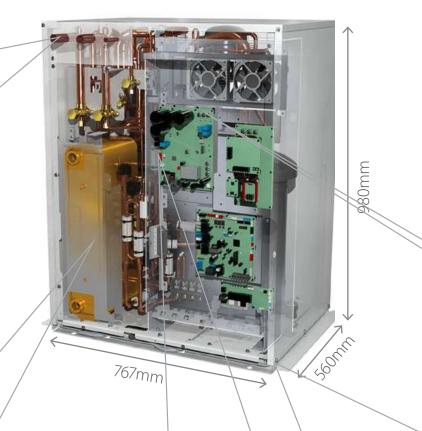
- > Green Building of the Year 2012 (ROGBC)
- > Environmental Social & Sustainability award (ESSA)

## Innovations

## for maximum flexibility and ease of installation

Horizontal or vertical piping connection

Highly improved efficiency thanks to enlarged heat exchanger



#### Easy access to components

Easy front plate removal





Rotating switchbox

step 1

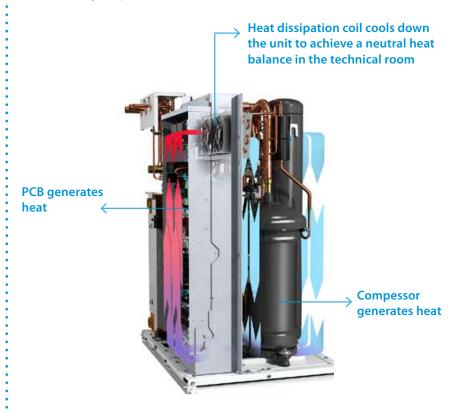
step 2

#### Zero heat dissipation principle

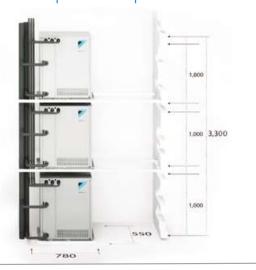
No need for ventilation or cooling of the technical room



> Enhancing installation flexibility and reliability of parts



## Minimal technical room space required.





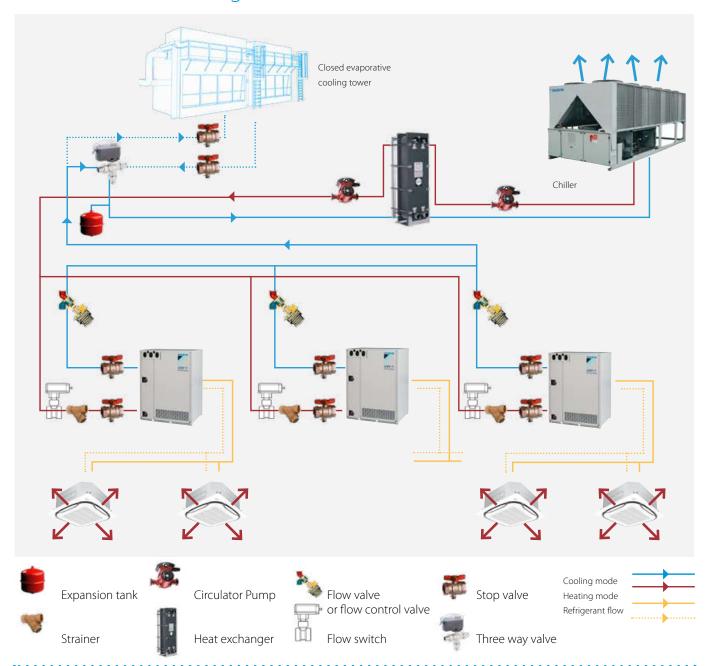


- > VRV configurator
- >7 segment display

## Application

### example

Closed evaporative cooling tower used for cooling, Chiller used for heating



#### **Benefits of this setup**

- → Chiller is only used when cooling tower capacity is not enough and/or when cooling and heating load of VRV is unbalanced → very energy efficient installation
- > In case the chiller is operating, a renewable heat source (air) is used, contributing to BREEAM score.
- > It is possible to downsize the cooling tower, making the installation more compact

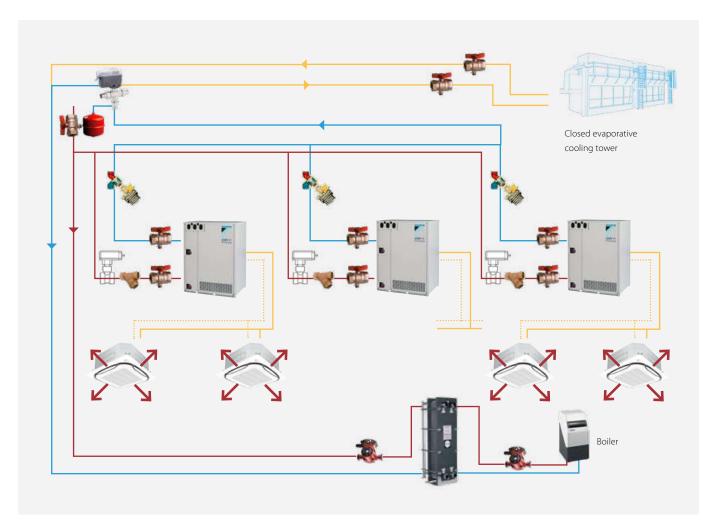
#### When to use?

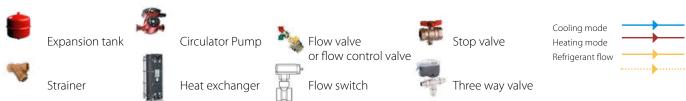
- > When there is anyway a chiller used for other purposes in the building
- > When space for outdoor installation is limited
- > Efficiency / green building certification schemes oriented projects

## Application

## example

#### Dry cooler used for cooling, boiler used for heating





#### **Benefits of this setup**

- Simple, cost efficient. Good option to use VRV technology in high-rise building
- > Does not make any special demand to the building/project/installation location
- > Provides high efficiency as for hotel application it is usual to have simultaneous cooling and heating load.
- > Heat recovery process in the water loop often allows the water temperature to stay within acceptable range even without using drycooler and boiler.

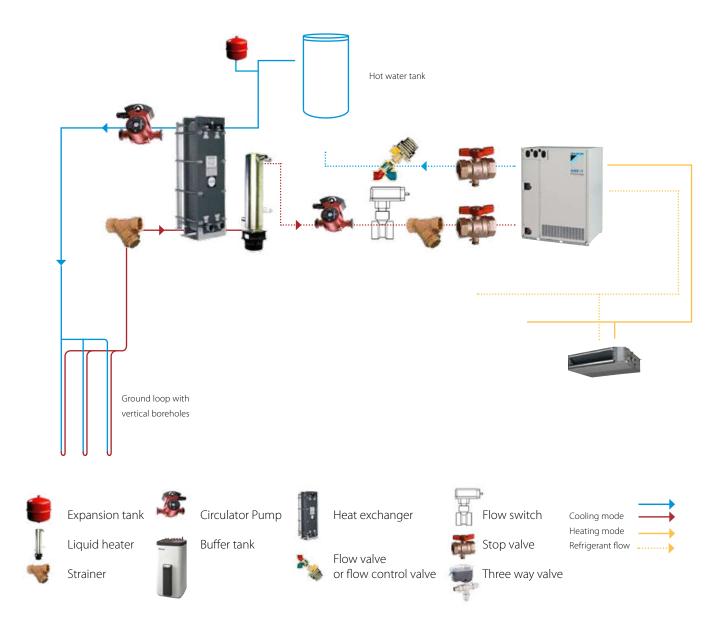
#### When to use?

 > For high-rise buildings or other places where VRV Water Cooled is preferable because of installation conditions

## Application

## example

#### Geothermal operation



#### Benefits of this setup

- > Very energy efficient
- > Ground loop can be in service for a very long time, so future equipment upgrades/replacements are easy
- Vertical boreholes provide more stable water temperature (= Constant high efficiency) and do not occupy a lot of ground space.

#### When to use?

- > When the soil is suitable for geothermal loops and there is availability of geothermal installation expertise locally
- For the projects with high requirements to energy efficiency, green building certification oriented

## Ground loop

### Examples

#### Open system

Uses water from a well or surface water (river, lake). The water is pumped back to a second well or surface water



#### **Conditions:**

- > At 20 m depth water has a constant temperature of 10°C through the year
- > Surface water cools down to 5°C during winter
- Can be the most economical type of geothermal system
- Constant ground water temperature has positive impact on heat pump efficiency
- Risk to damage system components because of water quality → a secondary loop might be required to protect the heat exchanger
- Water should be tested for acidity, mineral content, organic content and corosiveness:
- In many areas open systems are prohibited due to environmental concerns

#### Closed system

Uses water pipes that are buried in the ground and exchange heat with the ground



#### **Vertical system conditions**

- > Typical depth: 30-140 m. Below 15 m, the temperature of the ground is constant around
- ✓ Less surface space required
- √ Very constant ground temperature
- × Expensive due to drilling cost





#### Horizontal loop system

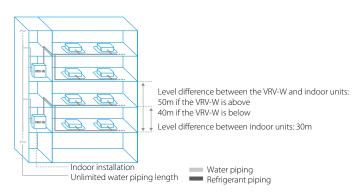
- > Typical trench depth: 1 2 m. The ground temperature varies, but always above 5°C (Exception: in cold areas)
- Slinky loop: the plastic geothermal loop pipe is coiled in overlapped circles and flattened (Installed where there is not enough space for closed horizontal)
- ✓ Installation is easier and less expensive than vertical closed loops.
- Mainly for small applications as the property land should be large enough
- You cannot plant trees or build constructions over the land containing the loop.
- **x** Glycol is needed to prevent freezing of the water.

#### **VRV IV water cooled+ series**

#### Ideal for high rise buildings, using water as heat source

- > Environmental conscious solution: reduced CO2 emmisions thanks to the use of geothermal energy as a renewable energy source and typical lower refrigerant levels making it ideal to comply with EN378
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units, Biddle air curtains and hot water
- > Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexiblity
- > Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura,...)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7-segment display and full inverter
- > Developed for easy installation and servicing: choice between top or front connection for refrigerant piping and rotating switch box for easy access to serviceable parts
- > Compact & lightweight design can be stacked for maximum space saving: 42HP can be installed in less than 0,5m<sup>2</sup> floorspace
- > 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit

- > Unified model for heat pump and heat recovery version and geothermal and standard operation
- > Variable Water Flow control option increases flexibility and control
- > 2 analogue input signals allowing external control of ON-OFF, operation mode, error signal, ...
- > Contains all standard VRV features







**Applies to units** sold in Europe

#### **Published data with** real-life indoor units

#### Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS
Daikin Emura - Wall mounted unit	FTXJ-MW/MS	•	•	•		•
Stylish - Wall mounted unit	FXTA-AW/BS/BB/BT	•	•	•	•	•
Floor standing unit	FVXM-F		•	•		•

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

#### **Click** or **scan** the code to access all technical information



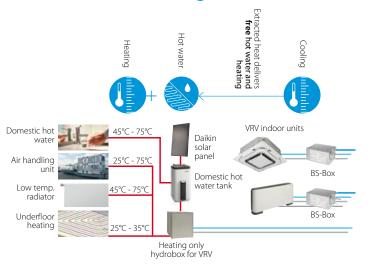


Outdoor unit				RWEYQ	8T9	10T9	12T9	14T9		
Capacity range				HP	8	10	12	14		
Cooling capacity	Prated,c			kW	22.4	28.0	33.5	40.0		
Heating capacity	Prated,h			kW	25.0	31.5	37.5	45.0		
	Max.	6°CWB		kW	25.0	31.5	37.5	45.0		
Recommended com	bination				4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB		
ηs,c				%	326.8	307.8	359.0	330.7		
ηs,h				%	524.3	465.9	436.0	397.1		
SEER					8.4	7.9	9.2	8.5		
SCOP					13.3	11.8	11.1	10.1		
Maximum number	of connect	able indoo	r units		64 (1)					
Indoor index	Min.				100.0	125.0	150.0	175.0		
connection	Max.				300.0	375.0	450.0	525.0		
Dimensions	Unit	HeightxV	/idthxDepth	mm	980x767x560					
Weight	Unit		·	kg	195 197					
Sound power level	Cooling	Nom.		dBA	65.0	71.0	72.0	74.0		
Sound pressure leve	Cooling	Nom.		dBA	48.0	50.0	56.0	58.0		
Operation range	Inlet water	Cooling	Min.~Max.	°CDB	10~45					
	temperature	Heating	Min.~Max.	°CWB	10~45					
	Temperature			°CDB	40					
	around casing									
	Humidity	Cooling~Heatir	ng Max.	%	80~80					
	around casing									
Refrigerant	Type/GWP				R-410A/2,087.5					
. <b>3</b>	Charge			kg/TCO2Eg	7.9/16.5 9.6/20.0			/20.0		
Piping connections				mm	9.	52	1.	12.7		
, , , , , , , , , , , , , , , , , , , ,	Gas	OD		mm	19.1	22.2	2	8.6		
	HP/LP gas	OD		mm	15.9 / 19.1	19.1 / 22.2	19.1 / 28.6	22.2 / 28.6		
	Drain	Size			14mm OD/ 10mm ID					
	Water	Inlet/	Size		ISO 228-G1 1/4 B/ISO 228-G1 1/4 B					
		Outlet								
	Total piping System Actual			m	500					
	length									
Power supply		quency/Vo	ltage	Hz/V	3N~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA) A				20 25					
			,				· · · · · · · · · · · · · · · · · · ·	<u> </u>		





#### Stage 1 heat recovery between indoor units



or

Reversible low temperature hydrobox

25°C - 45°C

25℃ - 35℃

Low temp.

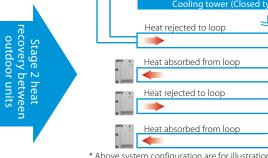
Underfloor heating

radiator

Liquid pipe Gas pipe Discharge gas pipe

Hot water

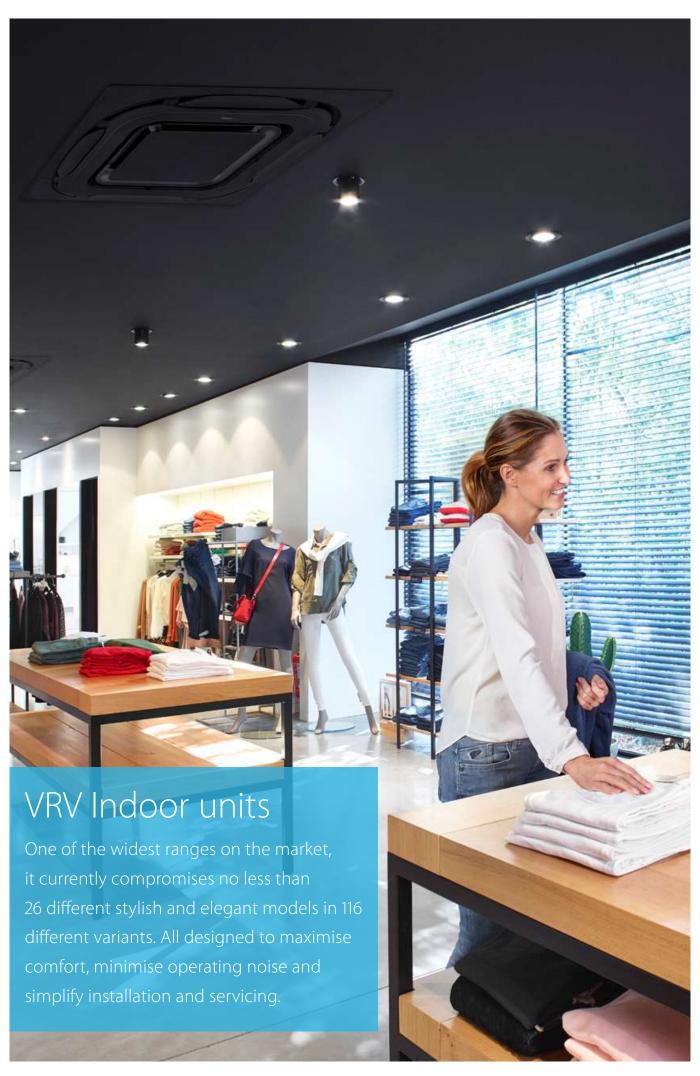




\* Above system configuration are for illustration purpose only.

<b>Outdoor unit Sys</b>	tem	RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9	
System	Outdoor unit module 1		RWE	YQ8T	RWE	'Q10T	RWE'	YQ12T	RWEYQ14T	
	Outdoor unit module 2		RWEYQ8T	RWE	/Q10T	RWE	/Q12T	RWE	/Q14T	
Capacity range		HP	16	18	20	22	24	26	28	
Cooling capacity	Prated,c	kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0	
Heating capacity	Prated,h	kW	50.0	56.5	62.5	69.0	75.0	82.5	90.0	
3 , ,	Max. 6°CWB	kW	50.0	56.5	62.5	69.0	75.0	82.5	90.0	
Recommended con	nbination		4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	4 x FXMQ50P7VEB	8 x FXMQ63P7VEB	12 x FXMQ50P7VEB	7 x FXMQ50P7VEB	2 x FXMQ50P7VE	
			+2xFXMQ80P7VEB	+4xFXMQ63P7VEB	+4xFXMQ63P7VEB			+5 x FXMQ63P7VEB	+ 10 x FXMQ63P7VI	
ηs,c		%	307.6	308.7	298.1	311.3	342.6	322.5	306.1	
ηs,h		%	459.2	491.1	466.8	447.9	434.5	406.9	387.9	
SEER			7	.9	7.7	8.0	8.8	8.3	7.9	
SCOP			11.7	12.5	11.9	11.4	11.1	10.4	9.9	
	r of connectable indoor units					64 (1)				
Indoor index	Min.		200.0	225.0	250.0	275.0	300.0	325.0	350.0	
connection	Max.		600.0	675.0	750.0	825.0	900.0	975.0	1,050.0	
Piping connection		mm	12.7		15				9.1	
. ipinig comiccitor	Gas OD	mm	,	28	3.6			34.9	•••	
	HP/LP gas OD	mm	22.2	/ 28.6	28.6	/ 28 6				
	Total piping System Actual	m		22.27 28.0 26.07 28.0 28.07 34.3						
	length		500							
Power supply	Phase/Frequency/Voltage	Hz/V		3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)	A	32 35 40 50					n		
	1 ` ′						-			
Outdoor unit Sys	Outdoor unit module 1	RWEYQ	30T9	32T9	34T9	36T9	38T9 RWEYO12T	40T9	42T9 RWEYQ14T	
System			DIACE	RWEYQ10T	1	DIMENOTAT	RWEYQIZI	DIACE		
	Outdoor unit module 2		RWEYQ10T		DWEVO13T	RWEYQ12T		RWEYQ14T		
C	Outdoor unit module 3	LID	RWEYQ10T	22	RWEYQ12T	26	20	RWEYQ14T	42	
Capacity range	D	HP	30	32	34	36	38	40	42	
Cooling capacity	Prated,c	kW kW	84.0 94.5	89.5 100.5	95.0	100.5	107.0	113.5	120.0	
Heating capacity	Prated,h				106.5	112.5	120.0	127.5	135.0	
	Max. 6°CWB	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0	
ης,ς		%	308.3	318.2	342.5	352.3	338.8	341.4	332.9	
ηs,h		%	467.2	456.1	447.0	438.5	419.4	404.4	391.2	
SEER			7.9	8.2	8.8	9.0		.7	8.5	
SCOP			11.9	11.6	11.4	11.2	10.7	10.3	10.0	
	r of connectable indoor units		275.0	400.0	425.0	64 (1)	475.0	F00.0	525.0	
Indoor index	Min.		375.0	400.0	425.0	450.0	475.0	500.0	525.0	
connection	Max.	mm	1,125.0	1,200.0	1,275.0	1,350.0	1,425.0	1,500.0	1,575.0	
Piping connection		19.1								
	Gas OD mn		34.9 41.3							
			28.6 / 34.9 28.6 / 41.3 41.3 / 34.9							
	HP/LP gas OD	mm		20.0 / 34.9						
	HP/LP gas OD Total piping System Actual	mm m		26.0 / 34.9		500				
	HP/LP gas OD Total piping System Actual length	m		20.0 / 34.9			'			
Power supply Current - 50Hz	HP/LP gas OD Total piping System Actual		50	28.0 / 34.9	:	BN~/50/380-415	5		.0	

<sup>(</sup>I)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). | Contains fluorinated greenhouse gases \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

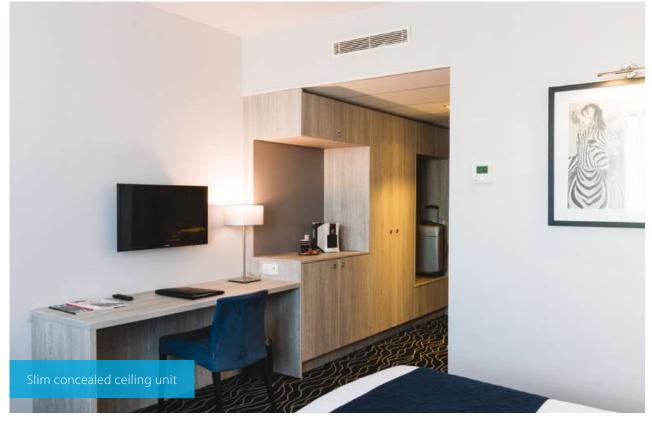


## A lindoor units

	VRV indoor units	107	
	Ceiling mounted cassette units		
NEW	PXFQ-B	114	
	QUE FXZQ-A	115	
	FXCQ-A	116	
UN	FXKQ-MA	117	
	Concealed ceiling units		
SLIMMEST IN CLASS	Auto cleaning filter for concealed ceiling units	42	
	Multi zoning kit	118	
	FXDQ-A3	119	
	FXSQ-A	120	
	FXMQ-P7 / FXMQ-MB	121	
	Wall mounted unit		
	FXAQ-A	123	
	Ceiling suspended units		
	FXHQ-A	124	
UN	FXUQ-A	125	
	Floor standing units		
SLIMMEST IN CLASS	FXNQ-A	126	
	FXLQ-P	127	
	Stylish indoor units	128	
	BPMKS	128	
	Accessory to connect stylish indoor units	128	
	Wall mounted		
	C/FTXA-AW/BS/BT/BB	131	
UNIQUE DESIGN UNIT	FTXJ-MW/MS	132	
	Floor standing		
	FVXM-F	133	

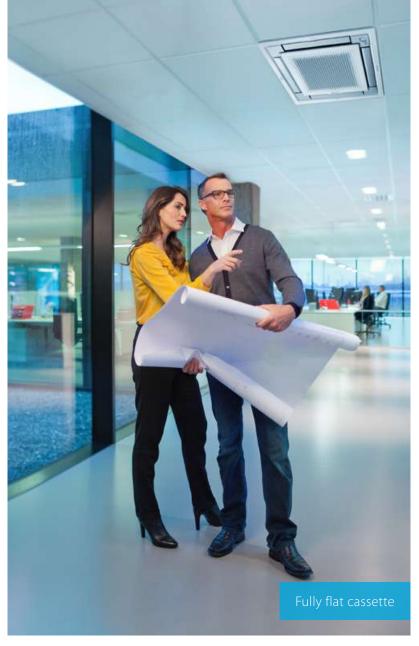












### Products overview **JRJ IV**

Capacity class (kW)

-	Model	Pr	roduct name	1	5 20	25	32	40	50	63	71	80	100	125	140 2	200	25
	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort  > Auto cleaning function ensures high efficiency  > Intelligent sensors save energy and maximize comfort  > Flexibility to suit every room layout  > Lowest installation height in the market!  > Widest choice ever in decoration panel designs and colors	FXFQ-B		•	•	•	•	•	•		•	•	•			
מייים מייים מייים מייים	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling  > Perfect integration in standard architectural ceiling tiles  > Blend of iconic design and engineering excellence  Intelligent sensors save energy and maximize comfort  > Small capacity unit developed for small or well-insulated rooms  > Flexibility to suit every room layout	FXZQ-A	>	•	•	•	•	•								
n	2-way blow ceiling mounted cassette	Thin, lightweight design installs easily in narrow ceiling spaces  > Depth of all units is 620mm, ideal for narrow ceiling spaces  > Flexibility to suit every room layout  > Reduced energy consumption thanks to DC fan motor  > The flaps close entirely when the unit is not operating  > Optimum comfort with automatic air flow adjustment to the required load	FXCQ-A		•	•	•	•	•	•		•		•			
	Ceiling mounted corner cassette	1-way blow unit for corner installation > Compact dimensions enable installation in narrow ceiling voids > Flexible installation thanks to different air discharge options	FXKQ-MA			•	•	•		•							
	Slim concealed ceiling unit	Slim design for flexible installation  Compact dimensions enable installation in narrow ceiling voids  Medium external static pressure up to 44Pa  Only grilles are visible  Small capacity unit developted for small of well-insulated rooms  Reduced energy consumption thanks to DC fan motor	FXDQ-A3		•	•	•	•	•	•				leanir optio		M	u
)	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market!  > Slimmest unit in class, only 245mm  > Low operating sound level  > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths  > Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSQ-A		•	•	•	•	•	•		•	•	•	•	M	lul
	Concealed ceiling unit with high ESP	ESP up to 200, ideal for large sized spaces  > Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment  > Reduced energy consumption thanks to DC fan motor  > Flexible installation as the air suction direction can be altered from rear to bottom suction	FXMQ-P7						•	•		•	•	•			
	Concealed ceiling unit with high ESP	ESP up to 270, ideal for extra large sized spaces  > Only grilles are visible > Large capacity unit: up to 31.5 kW heating capacity	FXMQ-MB	1												•	
	Wall mounted unit	For rooms with no false ceilings nor free floor space  Flat, stylish front panel is more easy to clean  Small capacity unit developted for small of well-insulated rooms  Reduced energy consumption thanks to DC fan motor  The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAQ-A		•	•	•	•	•	•							
555555555555555555555555555555555555555	Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space  Ideal for comfortable air flow in wide rooms thanks to Coanda effect Rooms with ceilings up to 3.8m can be heated or cooled very easily!  Can easily be installed in both new and refurbishment projects Can even be mounted in corners or narrow spaces without any problem Reduced energy consumption thanks to DC fan motor	FXHQ-A				•			•			•				
	UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space  > Rooms with ceilings up to 3.5m can be heated up or cooled down very easily!  > Can easily be installed in both new and refurbishment projects  > Flexibility to suit every room layout  > Reduced energy consumption thanks to DC fan motor	FXUQ-A								•		•				
0	Floor standing unit	For perimeter zone air conditioning  > Can be installed in front of glass walls or free standing as both the front and the back are finished  > Ideal for installation beneath a window  > Requires very little installation space  > Wall mounted installation facilitates cleaning beneath the unit	FXLQ-P		•	•	•	•	•	•							
6	Concealed floor	Ideal for installation in offices, hotels and residential applications  Discretely concealed in the wall, leaving only the suction and discharge grilles visible  Can even be installed underneath a window	FXNQ-A		•	•	•	•	•	•							
-	standing unit	Requires very little installation space as the depth is only 200mm     High ESP allows flexible installation			7 2.2												L

<sup>(1)</sup> Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m

 $<sup>(2) \</sup> Nominal\ heating\ capacities\ are\ based\ on:\ indoor\ temperature:\ 20^\circ CDB,\ outdoor\ temperature:\ 7^\circ CDB,\ 6^\circ CWB,\ equivalent\ refrigerant\ piping:\ 5m,\ level\ difference:\ 0m$ 

Connectable outdoor unit

# Products overview Stylish indoor units

Depending on the application, Split and Sky Air indoor units can be connected to our VRV IV and VRV IV S-series outdoor units. Refer to the autdoor unit portfolio for combination restriction

												_	·····	ctubic oute		
Type	unit portfolio for combinat	ion restrictions	5.	15	20	25	35	42	Capacit	y class	(kW)	RYYQ-U	RXYQ-U	RXYSCQ-TV1³ RXYSQ-TV9³ RXYSQ-TY9/TY¹³	RWEYQ-T94	RXYLQ-T
турс	Round flow cassette				20			72	30	00	7.	~	~		~	~
	(incl. auto-cleaning function')	FCAG-B					•		•	•				✓		
Ceiling mounted cassette	Fully flat cassette	FFA-A9				•	•		•	•				<b>√</b>		
Concealed	Slim concealed ceiling unit	FDXM-F9	The second second			•	•		•	•				<b>√</b>		
ceiling	Concealed ceiling unit with inverter-driven fan	FBA-A(9)					•		•	•		ito clea lter op		<b>✓</b>		
Wall	Daikin Emura Wall mounted unit reddot award 2014 winner	FTXJ-MW/MS			•	•	•		•			<b>√</b>	✓	<b>✓</b>	✓	<b>✓</b>
mounted	Stylish Wall mounted unit	FTXA-AW/ BS/BB/BT			•	•	•	•	•			✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Ceiling suspended	Ceiling suspended unit	FHA-A(9)					•		•	•	•			<b>✓</b>		
Floor	Floor standing unit	FVXM-F				•	•		•			✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
standing	Concealed floor standing unit	FNA-A9				•	•		•	•				<b>✓</b>		

<sup>&</sup>lt;sup>1</sup> Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E\* or BRC1H\* needed

 $<sup>^{\</sup>rm 2}$  To connect stylish indoor units a BPMKS unit is needed

<sup>&</sup>lt;sup>3</sup> A mix of RA indoor units and VRV indoor units is not allowed.

<sup>&</sup>lt;sup>4</sup> Only in heat pump operation

# Benefits overview **JRJ IV**

		Home leave operation	During absence, indoor comfort levels can be maintained
are	F	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating
We care		Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance
	<b>→</b>	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor
_			
او		Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired
Comfort	(- <u>1</u> -)	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood
	[A]	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature
Air treatment		Air filter	Removes airborne dust particles to ensure a steady supply of clean air
Humidity	S DRY	Dry programme	Allows humidity levels to be reduced without variations in room temperature
_			
		Ceiling soiling prevention	The air discharge of the indoor unit is specially designed to prevent air being blown against the ceiling to prevent ceiling stains
wol		Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution
Air flow	S	Fan speed steps	Multiple fan speeds to select, to optimize comfort levels
	×	Individual flap control	Individual flap control via the wired remote controller makes it simple to fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well
e e	24/7	Weekly timer	Timer can be set to start and stop operation anytime on a daily or weekly basis
& tim		Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit
ote control & timer	•	Wired remote control	Wired remote control to remotely control your indoor unit
		Centralised control	Centralised control to to control several indoor units from one single point
Rem		Multi zoning	Allows up to 6 individual climate zones with one indoor unit
St	AUTO	Auto-restart	The unit restarts automatically at the original settings after power failure
untcior		Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies
Other funtcions	~ <b>.</b>	Drain pump kit	Facilitates condensation draining from the indoor unit
		Multi tenant	The indoor unit's main power supply can be turned off when leaving the building or for servicing purposes
_			

Ce	eiling mounte	ed cassette un	its		Concealed	ceiling units		Wall mounted unit	Ceiling susp	pended units	Floor stan	iding units
FXFQ-B	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXAQ-A	FXHQ-A	FXUQ-A	FXNQ-A	FXLQ-P
•	•	•	•	•	•	•	•	•	•	•	•	•
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G1* (G3* in case of auto cle- aning panel)	G1*	•	G1*	•	G1*	•	G1* F8* (optional)	•	G1*	G1*	G1*	G1*
•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•									
•	•	•	•					•		•		
3 + auto	3 + auto	3 + auto	2	3	3 + auto	3	2	2	3	3 + auto	3	2
•	•									•		
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•	•	•	•	•	•	•	•	•	•	•	•	•
Standard	Standard	Standard	Standard	Standard	Standard	Standard	Optional	Optional	Optional	Standard		
•	•	(•)	(•)	•	•	•	(•)	•	(•)	(•)	•	•

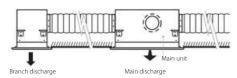
 $<sup>\</sup>ensuremath{^{*}}$  Filter grade category are an indication, filters are not certified.



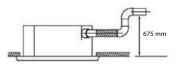
### Round flow cassette

### 360° air discharge for optimum efficiency and comfort

- > Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs.
- > Two optional intelligent sensors improve energy efficiency and
- > Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- > Lowest installation height in the market: 214mm for class 20-63
- > Optional fresh air intake
- > Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



> Standard drain pump with 675mm lift increases flexibility and installation speed











Indoor unit				FXFQ	20B	25B	32B	40B	50B	63B	80B	100B	125B
Cooling capacity	Total capacity	At high fa	n speed	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	At high fa	n speed	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0
Power input - 50Hz	Cooling	At high fa	n speed	kW		0.0	040		0.050	0.060	0.090	0.120	0.190
	Heating	At high fa	n speed	kW		0.0	040		0.050	0.060	0.090	0.120	0.190
Dimensions	Unit	HeightxV	/idthxDepth	mm			204x8	40x840			246x84	10x840	288x840x840
Weight	Unit			kg		18.0		19.0	2	1.0	24	1.0	26.0
Casing	Material							Galva	anised steel	plate			
Decoration panel	Model				Standard	•	to cleaning	hite with gro panels BYCO panels: BYCQ	ý140EGF - w	hite / BYCQ	140EGFB - b	lack	B - black
	Dimensions	HeiahtxV	/idthxDepth	mm	Standar	d panels: 50		Auto cleani					950x950
	Weight			kg				5.4 / Auto cl				•	
Fan	Air flow rate - 50Hz	Cooling	At high fan speed / At medium fan speed / At low fan speed	m³/min		12.8 / 10.7 / 8.9	·	14.8 / 12.6 / 10.4	15.1 / 12.9 / 10.7	16.6 / 13.4 / 10.7	23.3 / 19.2 / 13.5	27.8 / 20.4 / 13.0	31.6 / 26.0 / 19.8
		Heating	At high fan speed / At medium fan speed / At low fan speed	m³/min		12.8 / 10.7 / 8.9		14.8 / 12.6 / 10.4	15.1 / 12.9 / 10.7	16.6 / 13.4 / 10.7	22.5 / 18.5 / 13.0	27.8 / 20.4 / 13.0	30.3 / 24.9 / 18.9
Air filter	Type								Resin net				
Sound power level	Cooling	At high fa	n speed	dBA		49.0		51	1.0	53.0	55.0	60.0	61.0
Sound pressure level	Cooling		n speed / At medium / At low fan speed	dBA		31.0 / 29.0 / 28.0		33.0 / 3	1.0 / 29.0	35.0 / 33.0 / 30.0	38.0 / 34.0 / 30.0	43.0 / 37.0 / 30.0	45.0 / 41.0 / 36.0
	Heating		n speed / At medium / At low fan speed	dBA		31.0 / 29.0 / 28.0		33.0 / 3	1.0 / 29.0	35.0 / 33.0 / 30.0	38.0 / 34.0 / 30.0	43.0 / 37.0 / 30.0	45.0 / 41.0 / 36.0
Refrigerant	Type/GWP							R	-410A/2,087	7.5			
Piping connections	Liquid	OD		mm			6.35				9.	52	
	Gas	OD		mm			1.	2.7				15.9	
	Drain							VP25	(O.D. 32 / I.	D. 25)			
Power supply	Phase/Free	quency/Vo	ltage	Hz/V				1~/50	0/60/220-24	0/220			
Control systems	Infrared re	mote cont	rol				BRC7FA53	2F / BRC7FB5	32F / BRC7F	A532FB / BF	RC7FB532FB		
	Wired rem	ote contro	d			E	3RC1H52W/	S/K / BRC1E5	3A / BRC1E5	3B / BRC1E5	3C / BRC1D5	2	

### **Fully flat cassette**

### Unique design in the market that integrates fully flat into the ceiling

- > Fully flat integration in standard architectural ceiling tiles, leaving
- > Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and
- > Two optional intelligent sensors improve energy efficiency and comfort
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



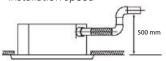
> Optional fresh air intake

### **Click** or **scan** the code to access all technical information





> Standard drain pump with 630mm lift increases flexibility and installation speed



Indoor unit				FXZQ	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fan sp	eed	kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fan sp	eed	kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan sp	eed	kW		0.043		0.045	0.059	0.092
	Heating	At high fan sp	eed	kW		0.036		0.038	0.053	0.086
Dimensions	Unit	HeightxWidth	xDepth	mm			260x5	75x575		
Weight	Unit			kg		15.5		16	5.5	18.5
Casing	Material						Galvanised	steel plate		
Decoration panel	Model						BYFQ60	C2W1W		
	Colour						White	(N9.5)		
	Dimensions	HeightxWidth	xDepth	mm			46x62	0x620		
	Weight			kg			2	.8		
Decoration panel 2	Model						BYFQ6	0C2W1S		
·	Colour						SIL	VER		
	Dimensions	HeightxWidth	xDepth	mm			46x62	0x620		
	Weight			kg			2	.8		
Decoration panel 3	Model						BYFQ6	0B2W1		
·	Colour						White (F	RAL9010)		
	Dimensions	HeightxWidth	xDepth	mm			55x70	0x700		
	Weight			kg			2	.7		
Decoration panel 4	Model						BYFQ6	0B3W1		
	Colour						WHITE (I	RAL9010)		
	Dimensions	HeightxWidth	xDepth	mm			55x70	0x700		
	Weight			kg			2	.7		
Fan	Air flow	Cooling Ath	nigh fan speed / At	m³/min	8.5 / 7.00 / 6.5	8.7 / 7.50 / 6.5	9.0 / 8.00 / 6.5	10.0 / 8.50 / 7.0	11.5 / 9.50 / 8.0	14.5 / 12.5 / 10.0
	rate - 50Hz	me	dium fan speed /							
		At I	ow fan speed							
		Heating Ath	nigh fan speed / At	m³/min	8.5 / 7.0 / 6.5	8.7 / 7.5 / 6.5	9.0 / 8.0 / 6.5	10.0 / 8.5 / 7.0	11.5 / 9.5 / 8.0	14.5 / 12.5 / 10.0
		me	dium fan speed /							
		At I	ow fan speed							
Air filter	Туре						Resi	n net		
Sound power level	Cooling	At high fan sp	eed	dBA	4	<b>!</b> 9	50	51	54	60
Sound pressure	Cooling	At high fan spe	ed / At medium	dBA	31.5 / 28.0 / 25.5	32.0 / 29.5 / 25.5	33.0 / 30.0 / 25.5	33.5 / 30.0 / 26.0	37.0 / 32.0 / 28.0	43.0 / 40.0 / 33.0
level		fan speed / At le								
	Heating	At high fan spe	ed / At medium	dBA	31.5 / 28.0 / 25.5	32.0 / 29.5 / 25.5	33.0 / 30.0 / 25.5	33.5 / 30.0 / 26.0	37.0 / 32.0 / 28.0	43.0 / 40.0 / 33.0
	3	fan speed / At le	ow fan speed							
Refrigerant	Type/GWP						R-410A	/2,087.5		
Piping connections	Liquid	OD		mm			6.	35		
	Gas	OD		mm			12	2.7		
	Drain						VP20 (I.D.	20/O.D. 26)		
Power supply	Phase/Fred	quency/Voltag	e	Hz/V			1~/50/60/2			
		fuse amps (MF		Α				6		
		mote control	·		BRC7E	B530W (standard	panel) / BRC7F530	)W (white panel)	BRC7F530S (grey	panel)

# 2-way blow ceiling mounted cassette

### Thin, lightweight design installs easily in narrow corridors

- > Depth of all units is 620mm, ideal for narrow spaces
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- > Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

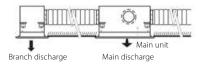
Fresh air intake opening in casing



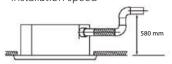
- \* Brings in up to 10% of fresh air into the room
- > Optimum comfort guaranteed with automatic air flow adjustment to the required load
- > Maintenance operations can be performed by removing the front panel



> Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



> Standard drain pump with 580mm lift increases flexibility and installation speed



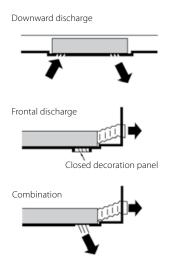


Indoor unit			FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Total capacity	At high fan speed	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Total capacity	At high fan speed	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power input - 50Hz	Cooling	At high fan speed	kW	0.031	0.0	)39	0.041	0.059	0.063	0.090	0.149
	Heating	At high fan speed	kW	0.028	0.0	)35	0.037	0.056	0.060	0.086	0.146
Dimensions	Unit	HeightxWidthxDepth	mm		305x7	75x620		305x99	90x620	305x1,4	145x620
Weight	Unit		kg		1	9		22	25	33	38
Casing	Material						Galvanised	l steel plate			
Decoration panel	Model				BYBCC	40HW1		BYBCQ	63HW1	BYBCQ	125HW1
	Colour						Fresh white	(6.5Y 9.5/0.5)			
	Dimensions	HeightxWidthxDepth	mm		55x1,0	70x700		55x1,28	85x700	55x1,74	40x700
	Weight		kg		1	0		1	11	1	3
Fan	Air flow rate - 50Hz	Cooling At high fan speed / a medium fan speed / at low fan speed	t M³/min	10.5 / 9 / 7.5	11.5 /	9.5 / 8	12 / 10.5 / 8.5	15 / 13 / 10.5	16 / 14 / 11.5	26 / 22.5 / 18.5	32 / 27.5 / 22.5
Air filter	Туре	·				Re	sin net with i	mold resistan	ice		
Sound power level	Cooling	At high fan speed / At medium fan speed / At low fan speed	n dBA	48 / 46 / 44	50 / 47 / 45	50 / 48 / 46	52 / 49 / 47	53 / 51 / 47	55 / 53 / 48	58 / 54 / 49	62/58/54
Sound pressure level	Cooling	At high fan speed / At medium fan speed / At low fan speed	n dBA	32.0 / 30.0 / 28.0	34.0 / 31.0 / 29.0	34.0 / 32.0 / 30.0	36.0 / 33.0 / 31.0	37.0 / 35.0 / 31.0	39.0 / 37.0 / 32.0	42.0 / 38.0 / 33.0	46.0 / 42.0 / 38.0
	Heating	At high fan speed / At medium fan speed / At low fan speed	dBA	32.0 / 30.0 / 28.0	34.0 / 31.0 / 29.0	34.0 / 32.0 / 30.0	36.0 / 33.0 / 31.0	37.0 / 35.0 / 31.0	39.0 / 37.0 / 32.0	42.0 / 38.0 / 33.0	46.0 / 42.0 / 38.0
Refrigerant	Type/GWP						R-410A	/2,087.5	'		'
Piping connections	Liquid	OD	mm			6.35				9.52	
	Gas	OD	mm			12.7				15.9	
	Drain						VP25 (O.D.	32 / I.D. 25)			
Power supply	Phase/Fred	quency/Voltage	Hz/V				1~/50/2	220-240			
Current - 50Hz	Maximum	fuse amps (MFA)	Α				1	6			
Control systems	Infrared re	mote control					BRC	7C52			
	Wired rem	ote control			BRC	1H52W/S/K /	BRC1E53A / B	RC1E53B / BR	C1E53C / BRC	1D52	

### Ceiling mounted corner cassette

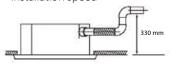
### 1-way blow unit for corner installation

- > Compact dimensions, can easily be mounted in a narrow ceiling void (only 220mm ceiling space required, 195 with panel spacer, available as accessory)
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both





- > Maintenance operations can be performed by removing the front panel
- > Standard drain pump with 330mm lift increases flexibility and installation speed





Indoor unit			FXKQ	25MA	32MA	40MA	63MA
Cooling capacity	Total capacity	At high fan speed	kW	2.8	3.6	4.5	7.10
Heating capacity	Total capacity	At high fan speed	kW	3.2	4.0	5.0	8.00
Power input - 50Hz	Cooling	At high fan speed	kW	0.0	066	0.076	0.105
	Heating	At high fan speed	kW	0.0	046	0.056	0.085
Dimensions	Unit	HeightxWidthxDepth	mm		215x1,110x710		215x1,310x710
Weight	Unit		kg		31		34
Casing	Material				Galvanise	d steel plate	
Decoration panel	Model				BYK45FJW1		BYK71FJW1
	Colour				W	hite	
	Dimensions	HeightxWidthxDepth	mm		70x1,240x800		70x1,440x800
	Weight		kg		8.5		9.5
Fan	Air flow rate	Cooling At high fan speed	/ m³/min	11	/9	13 / 10	18 / 15
	- 50Hz	At low fan speed					
Air filter	Type				Resin net with	mold resistance	
Sound power level	Cooling	At high fan speed / At low fan speed	dBA	54	/ 49	56 / 50	58 / 53
Sound pressure	Cooling	At high fan speed / At low	dBA	38.0	/ 33.0	40.0 / 34.0	42.0 / 37.0
level		fan speed					
Refrigerant	Type/GWP				R-410 <i>A</i>	\/2,087.5	
Piping connections	Liquid	OD	mm		6.35		9.52
	Gas	OD	mm		12.7		15.9
	Drain				VP25 (O.D	. 32 / I.D. 25)	
Power supply	Phase/Fred	quency/Voltage	Hz/V		1~/50/60/2	220-240/220	
Current - 50Hz	Maximum	fuse amps (MFA)	Α			15	
Control systems	Infrared re	mote control			BRO	C4C61	
	Wired rem	ote control		BRO	1H52W/S/K / BRC1E53A / E	BRC1E53B / BRC1E53C / BRC	1D52



The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones via a centralised thermostat located in the main room and individual thermostats for each of the zones.

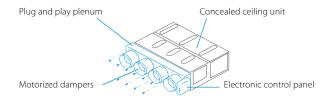
### Benefits

### **Increased comfort**

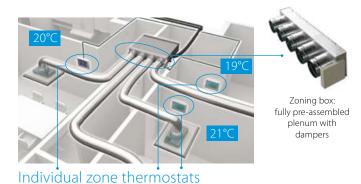
- > Increases comfort levels by allowing more individual zone control
  - Up to 8 individual zones can be served thanks to separate modulating dampers
  - Individual thermostat for room-by-room or zone-by-zone control

### Easy to install

- > Automatic air flow adjustment according to the demand
- > Easy to install, integrates with the Daikin indoor units and system controls
- > Time saving as plenum comes fully pre-assembled with dampers, and control boards
- > Reduces the amount of refrigerant required in the installation



### How does it work?



### Blueface - Airzone Main Thermostat

- Color graphic interface for controlling zones
- > Wired communication



AZCE6BLUEFACECE

#### Airzone Zone Thermostat

- Graphic interface with low-energy e-ink screen for controlling zones
- Radio communication



AZCE6THINKRB

#### Airzone Zone Thermostat

- Thermostat with buttons for controlling the temperature
- > Radio communication



AZCE6LITERB

Compa	tik	oility							S	k	<b>//</b>	tir	-												1	7	A	]	1							
•					FDX	M-F	9			FE	BA-A	(9)			Α	DEA	-A			FX	DQ-	А3								FXS	Q-A					
Numl motorised dan		Reference	Dimensions H x W x D (mm)	25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	15	20	25	32	40	50	63	71	80	100	125	40
	_	AZEZ6DAIST07XS2																							•	•	•	•								
	2	AZEZ6DAIST07S2	300 x 930 x 454					•	•																				•	•						
		AZEZ6DAIST07XS3																							•	•	•	•								
	3	AZEZ6DAIST07S3	300 x 930 x 454					•	•																				•	•						
	4	AZEZ6DAIST07S4	300 x 930 x 454					•	•																				•	•						
Standard Ceiling	4	AZEZ6DAIST07M4	300 x 1,140 x 454							•	•				•														П		•		•			
Void		AZEZ6DAIST07M5								•	•				•													П	П	П	•		•			
	5	AZEZ6DAIST07L5	300 x 1,425 x 454					Ì				•	•	•		•	•																	•	•	
444		AZEZ6DAIST07M6								•	•				•																•		•			
ATTEN STATE OF THE PARTY OF THE	6	AZEZ6DAIST07L6	300 x 1,638 x 454									•	•	•		•	•																	•	•	
	_	AZEZ6DAIST07L7										•	•	•		•	•																	•	•	
	7	AZEZ6DAIST07XL7	515 x 1,425 x 454																																	•
	8	AZEZ6DAIST07L8	F1F1 42F 4F4									•	•	•		•	•																	•	•	
	٥	AZEZ6DAIST07XL8	515 x 1,425 x 454																																	•
Compact Ceiling	2	AZEZ6DAISL01S2	210 x 720 x 444	•	•													•	•	•	•								П					П	П	_
Void	3	AZEZ6DAISL01S3	210 x 720 x 444	•	•													•	•	•	•															
Care	4	AZEZ6DAISL01M4	210 x 930 x 444																			•	•													
- AND STATE	5	AZEZ6DAISL01L5	210 x 1,140 x 444			•	•																	•												

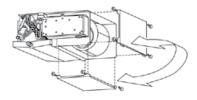
### Slim concealed ceiling unit

### Slim design for flexible installation

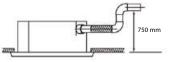
> Compact dimensions, can easily be mounted in a ceiling void of only 240mm



- > Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



> Standard drain pump with 600mm lift increases flexibility and installation speed



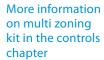




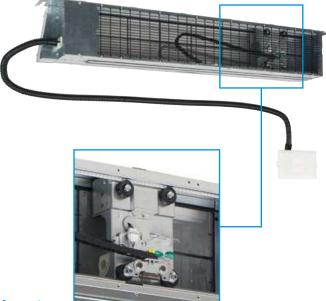












Auto cleaning filter option

Indoor unit				FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3
Cooling capacity	Total capacity	At high far	speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity			kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz		At high far	_	kW	1.90		071	4.00	0.078	0.099	0.110
Power input - 30HZ	Heating	At high far	_	kW			068		0.078	0.099	0.107
Danishad asilians		At night fai	rspeed			0.0	000	240	0.075	0.096	0.107
Required ceiling vo		11-:	ما ما ما ما ما	mm		2007	T0(20	240	2000	F0C20	2001150620
Dimensions	Unit	Heightxwi	dthxDepth	mm			50x620			50x620	200x1,150x620
Weight	Unit			kg		2	2.0			6.0	29.0
Casing	Material	- "		3, .				Galvanised stee		l	
Fan	Air flow rate	Cooling	At high fan speed / At	m³/min	7.5 / 7.00 / 6.4		8.0 / 7.20 / 6.4		10.5 / 9.50	12.5 / 11.0 / 10.0	
	- 50Hz		medium fan speed /						/ 8.5		13.0
			At low fan speed								
	External static	Factory set	t / High	Pa		10 /	30.0			15 / 44.0	
	pressure - 50Hz										
Air filter	Type						Ren	novable / wash	able		
Sound power level	Cooling	At high far	speed	dBA	50		51		52	53	54
Sound pressure	Cooling	At high fan	speed / At medium	dBA	32.0 / 31.0 /		33.0 / 31.0 / 27.0		34.0 / 32.0 /	35.0 / 33.0 /	36.0 / 34.0 /
level		fan speed /	At low fan speed		27.0				28.0	29.0	30.0
Refrigerant	Type/GWP							R-410A/2,087.5			
Piping connections		OD		mm			6.	35			9.52
, , , , , , , ,	Gas	OD		mm			12	2.7			15.9
	Drain							20 (I.D. 20/O.D.	26)		1515
Power supply		quency/Vol	tage	Hz/V				50/60/220-240/			
Current - 50Hz	Maximum			Α			. ,	16			
Control systems	Infrared re						RF	C4C65 / BRC4C	66		
control systems	Wired rem		O1			RRC1H¹	52W/S/K / BRC1E			RRC1D52	
	· · ii cu i cilii	ote contion				טווכוווג	2211/3/IN/ DINCIL	.55,17 DITCIESSE	, DITCIESSC / I	JIIC 1032	

### Concealed ceiling unit with medium ESP

### Slimmest yet most powerful medium static pressure unit on the market

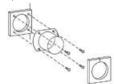
> Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



- > Quiet operation: down to 25dBA sound pressure level
- > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- > Optional fresh air intake Fresh air intake opening in casing







- \* Allow larger quantities of fresh air to Brings in up to 10% of fresh air into be brought in
- > Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles

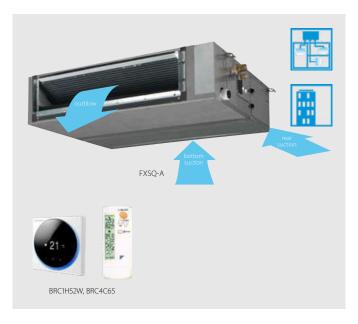
### More information on multi zoning kit in the controls chapter

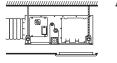
### Click or scan the code to access all technical information







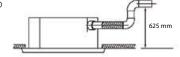






For free use into false ceiling For connecting onto suction canvas (not supplied by Daikin)

> Standard built-in drain pump with 625mm lift increases flexibility and installation speed

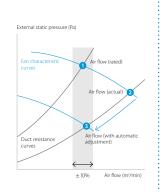


### Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow

#### Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \* the real air flow may be much lower or higher than nominal , leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster.



Indoor unit				FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fai	n speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fai	n speed	kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50Hz	Cooling	At high far	n speed	kW		0.090		0.096	0.151	0.154	0.188	0.213	0.290	0.331	0.386
	Heating	At high far	n speed	kW		0.086		0.092	0.147	0.150	0.183	0.209	0.285	0.326	0.382
Dimensions	Unit	HeightxW	idthxDepth	mm		245x5	50x800		245x70	008x00	245x1,0	00x800	245x1,4	00x800	245x1,550x800
Weight	Unit			kg		23.5		24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material								Galvai	nised stee	el plate				
Fan	Air flow rate	Cooling	High / Medium / Low	m³/min	8.7 / 7.50 / 6.5	9.0 / 7	50 / 6.5	9.5 / 8.00 / 7.0	15.0 / 12.5 / 11.0	15.2 / 12.5 / 11.0	21.0 / 18.0 / 15.0	23.0 / 19.5 / 16.	32.0 / 27.0 / 23.0	36.0 / 31.5 / 26.0	39.0 / 34.0 / 28.0
	- 50Hz	Heating	High / Medium / Low	m³/min	8.7 / 7.5 / 6.5	9.0 / 7	7.5 / 6.5	9.5 / 8.0 / 7.0	15.0 / 12.5 / 11.0	15.2 / 12.5 / 11.0	21.0 / 18.0 / 15.0	23.0 / 19.5 / 16.	32.0 / 27.0 / 23.0	36.0 / 31.5 / 26.0	39.0 / 34.0 / 28.0
	External static	Factory se	t / High	Pa				30 / 150				40	/ 150	50 /	/ 150
	pressure - 50Hz	-	_												
Air filter	Туре									Resin net	į				
Sound power level	Cooling	At high far	n speed	dBA		54		55	6	0	59		61	6	64
Sound pressure	Cooling	High / Me	dium / Low	dBA	29.5 / 28.0 / 25.0	30.0 / 2	8.0 / 25.0	31.0 / 29.0 / 26.0	35.0 / 32	.0 / 29.0	33.0 / 30.0 / 27.0	35.0 / 32.0 / 29.	0 36.0 / 34.0 / 31.0	39.0 / 36.0 / 33.0	41.5 / 38.0 / 34.0
level	Heating	High / Me	dium / Low	dBA	31.5 / 29.0 / 26.0	32.0 / 2	9.0 / 26.0	33.0 / 30.0 / 27.0	37.0 / 34	1.0 / 29.0	35.0 / 32.0 / 28.0	37.0 / 34.0 / 30.	0 37.0 / 34.0 / 31.0	40.0 / 37.0 / 33.0	42.0 / 38.5 / 34.0
Refrigerant	Type/GWP								R-	410A/2,08	37.5				
Piping connections	Liquid	OD		mm			6	.35					9.52		
	Gas	OD		mm			1	2.7					15.9		
	Drain							VP20 (I	.D. 20/O.D	. 26), drai	n height 6	525 mm			
Power supply	Phase/Fred	quency/Vol	tage	Hz/V					1~/50/	60/220-2	40/220				
Current - 50Hz	Maximum	fuse amps	(MFA)	Α						16					
Control systems	Infrared re	mote conti	ol							BRC4C65					
	Wired rem	ote control					BRC1I	H52W/S/K	/ BRC1E53	A / BRC1E	53B / BRC	1E53C / B	RC1D52		

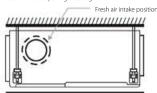
Contains fluorinated greenhouse gases

### Concealed ceiling unit with high ESP

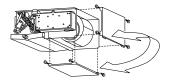
### Ideal for large sized spaces FXMQ-P7: ESP up to 200 Pa

- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > High external static pressure up to 200Pa facilitates extensive duct and grille network
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

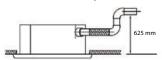
Fresh air intake opening in casing



- Brings in up to 10% of fresh air into the room
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



> Standard built-in drain pump with 625mm lift increases flexibility and installation speed



### Click or scan the code to access all technical information









### FXMQ-MB: ESP up to 270 Pa

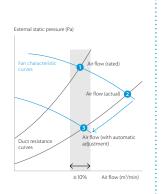
- > High external static pressure up to 270Pa facilitates extensive duct and grille network
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Large capacity unit: up to 31.5 kW heating capacity

### Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%.

### Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster.



		FA	MQ/FXMQ	50P7	63P7	80P7	100P7	125P7	200MB	250MB
Total capacity	At high fa	n speed	kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0
Total capacity	At high fa	n speed	kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5
Cooling	At high fa	n speed	kW	0.110	0.120	0.171	0.176	0.241	0.895	1.185
Heating	At high fa	n speed	kW	0.098	0.108	0.159	0.164	0.229	0.895	1.185
d >			mm			350			-	
Unit	HeightxW	idthxDepth	mm		300x1,000x700	)	300x1,4	400x700	470x1,38	0x1,100
Unit			kg		35		4	46	13	2
Material						Gal	vanised steel p	olate		
Model					BYBS71DJW1		BYBS1	25DJW1	-	
Colour						White (10Y9/0.5	)		-	
Dimensions	HeightxW	idthxDepth	mm		55x1,100x500		55x1,5	00x500	-x-	x-
Weight	_		kg		4.5		e	5.5	-	
Air flow rate	Cooling	High / Medium / L	ow m³/min	18.0 / 16.5 / 15.0	19.5 / 17.8 / 16.0	25.0 / 22.5 / 20.0	32.0 / 27.5 / 23.0	39.0 / 33.5 / 28.0	58 / 54.0 / 50	72 / 67.0 / 62
- 50Hz	Heating	High / Medium / L	ow m³/min	18.0 / 16.5 / 15.0	19.5 / 17.8 / 16.0	25.0 / 22.5 / 20.0	32.0 / 27.5 / 23.0	39.0 / 33.5 / 28.0	-/-	/-
External static	Factory se	t / High	Pa			100 / 200			160 / 270	170 / 270
oressure - 50Hz	,	3								
Туре						Resin net			_	
Cooling	High / Me	dium / Low	dBA	61.0 / - / -	64.0 / - / -	67.0 / - / -	65.0 / - / -	70.0 / - / -	76 / 75	5 / 73
	High / Me	dium / Low	dBA	41.0 / 39.0 / 37.0	42.0 / 40.0 / 38.0	43.0 / 41	1.0 / 39.0	44.0 / 42.0 / 40.0	48 / -	/ 45
			dBA	41.0 / 39.0 / 37.0	42.0 / 40.0 / 38.0	43.0 / 41	1.0 / 39.0	44.0 / 42.0 / 40.0	-/-	/-
Type/GWP						R-410A/-			R-410A/	2.087.5
			mm	6.35			9	.52		,
	OD		mm	12.7		15	i.9		19.1	22.2
Drain					VP	25 (I.D. 25/O.D.	32)		PS	1B
Phase/Fred	uency/Vo	ltage	Hz/V		1~/50/6	50/220-240/220	+/-10%		1~/50/2	20-240
			Α				16			
						-			BRC4C65 /	BRC4C66
					BRC1H5	2W/S/K / BRC1E	53A / BRC1E53	B / BRC1E53C / B		
	Total capacity Cooling Heating d > Unit Unit Material Model Colour Dimensions Weight Air flow rate - 5-0Hz Type Cooling Type/GWP Liquid Gas Drain Phase/Free Maximum Infrared rei	Total capacity At high factooling At high factooling At high factooling At high factooling At high factooling At high factooling At high factooling At high factooling At high factooling At high factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling Act of the factooling 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Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium / L Dispensions High / Medium	Total capacity At high fan speed kW Cooling At high fan speed kW Heating At high fan speed kW I heating At high fan speed kW I heating At high fan speed kW I heating At high fan speed kW I heating KwidthxDepth mm Unit kg Material kg Model Colour Dimensions HeightxWidthxDepth mm Weight kg Air flow rate Cooling High / Medium / Low m³/min External state Factory set / High Pa Dressure-50Hz Type Cooling High / Medium / Low dBA Cooling High / Medium / Low dBA Cooling High / Medium / Low dBA Type/GWP Liquid OD mm Gas OD mm Gas OD mm Drain Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A Infrared remote control	Total capacity At high fan speed kW 0.110 Cooling At high fan speed kW 0.010 Heating At high fan speed kW 0.098 d	Total capacity   At high fan speed   kW   6.3   8.0	Total capacity   At high fan speed   kW   6.3   8.0   10.0	Total capacity   At high fan speed   kW   6.3   8.0   10.0   12.5	Total capacity   At high fan speed   kW   6.3   8.0   10.0   12.5   16.0	Total capacity At high fan speed   kW   6.3   8.0   10.0   12.5   16.0   25.0



### Wall mounted unit

### For rooms with no false ceilings nor free floor space

- > Flat, stylish front panel blends easily within any interior décor and is easier to clean
- > Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to
   5 different discharge angles that can be programmed via the remote control
- > Maintenance operations can be performed easily from the front of the unit



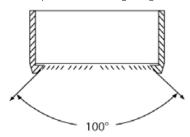


Indoor unit				FXAQ	15A	20A	25A	32A	40A	50A	63A	
Cooling capacity	Total capacity	At high fa	n speed	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity	Total capacity	At high fa	n speed	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	
Power input - 50Hz		At high fa	n speed	kW	0.	02	0.	03	0.02	0.03	0.05	
•	Heating	At high fa	n speed	kW		0.03		0.04	0.02	0.04	0.06	
Dimensions	Unit HeightxWidthxDepth mm					290x7	95x266			290x1,050x269		
Weight	Unit kg					1	12			15		
Fan	Air flow rate - 50Hz	Cooling	At high fan speed / At low fan speed	m³/min	8.4 / 7.0	9.1 / 7.0	9.4 / 7.0	9.8 / 7.0	12.2 / 9.7	14.4 / 11.5	18.3 / 13.5	
Air filter	Type						W	ashable resin r	net			
Sound power level	Cooling	At high fa	n speed	dBA	51.0	52.0	53.0	55	5.0	58.0	63.0	
Sound pressure level	Cooling	At high fa	n speed / At low	dBA	32.0 / 28.5	33.0 / 28.5	35.0 / 28.5	37.5 / 28.5	37.0 / 33.5	41.0 / 35.5	46.5 / 38.5	
	Heating	At high fa	n speed / At low	dBA	33.0 / 28.5	34.0 / 28.5	36.0 / 28.5	38.5 / 28.5	38.0 / 33.5	42.0 / 35.5	47.0 / 38.5	
Refrigerant	Type/GWI	P						R-410A/2,087.5				
Piping connections	Liquid	OD		mm	6.35							
	Gas	OD		mm			12	2.7			15.9	
	Drain				VP13 (I.D. 15/O.D. 18)							
Power supply	Phase/Frequency/Voltage Hz/V				1~/50/220-240							
Current - 50Hz	Maximum	n fuse amps	(MFA)	Α	16							
Control systems	Infrared remote control				BRC7EA628 / BRC7EA629							
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

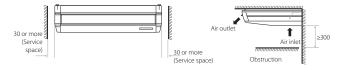
### Ceiling suspended unit

### For wide rooms with no false ceilings nor free floor space

> Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



- > Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- > Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space





> Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing



- \* Brings in up to 10% of fresh air into the room
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

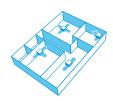


Indoor unit			FXHQ	32A	63A	100A		
Cooling capacity	Total capacity	At high fan speed	kW	3.6	7.1	11.2		
Heating capacity	Total capacity	At high fan speed	kW	4.0	8.0	12.5		
Power input - 50Hz	Cooling	At high fan speed	kW	0.107	0.111	0.237		
	Heating	At high fan speed	kW	0.107	0.111	0.237		
Dimensions	Unit	HeightxWidthxDepth	mm	235x960x690	235x1,270x690	235x1,590x690		
Weight	Unit		kg	24	33	39		
Casing	Material				Resin			
Fan	Air flow rate - 50Hz	Cooling At high fan speed / At medium fan speed / At low fan speed	m³/min	14.0 / 12.0 / 10.0	20.0 / 17.0 / 14.0	29.5 / 24.0 / 19.0		
		Heating At high fan speed / At medium fan speed / At low fan speed	m³/min	14.0 / 12.0 / 10.0	20.0 / 17.0 / 14.0	29.5 / 24.0 / 19.0		
Air filter	Type				Resin net with mold resistance			
Sound power level	Cooling	At high fan speed / At medium fan speed / At low fan speed	dBA	54 / 52 / 49	55 / 53 / 52	62 / 55 / 52		
Sound pressure level	Cooling	At high fan speed / At medium fan speed / At low fan speed	dBA	36.0 / 34.0 / 31.0	37.0 / 35.0 / 34.0	44.0 / 37.0 / 34.0		
	Heating	At high fan speed / At medium fan speed / At low fan speed	dBA	36.0 / 34.0 / 31.0	37.0 / 35.0 / 34.0	44.0 / 37.0 / 34.0		
Refrigerant	Type/GWP				R-410A/2,087.5			
Piping connections	Liquid	OD	mm	6.35	9.	52		
	Gas	OD	mm	12.7	15	i.9		
	Drain				VP20 (I.D. 20/O.D. 26)			
Power supply	Phase/Free	quency/Voltage	Hz/V		1~/50/220-240			
Current - 50Hz	Maximum	fuse amps (MFA)	Α		16			
Control systems	Infrared remote control			BRC7G53				
	Wired rem	ote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52				

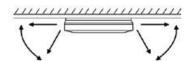
# 4-way blow ceiling suspended unit

### Unique Daikin unit for high rooms with no false ceilings nor free floor space

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!

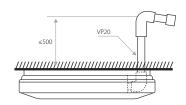


- > Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- > Optimum comfort guaranteed with automatic air flow adjustment to the required load
- > 5 different discharge angles between 0 and 60°can be programmed via the remote control





> Standard drain pump with 720mm lift increases flexibility and installation speed





Indoor unit			FXUQ	71A	100A
Cooling capacity	Total capacity	At high fan speed	kW	8.0	11.2
Heating capacity	Total capacity	At high fan speed	kW	9.0	12.5
Power input - 50Hz	Cooling	At high fan speed	kW	0.090	0.200
	Heating	At high fan speed	kW	0.073	0.179
Dimensions	Unit	HeightxWidthxDepth	mm	198x950	0x950
Weight	Unit		kg	26	27
Casing	Material			Res	in
Fan	Air flow rate - 50Hz	Cooling At high fan speed / At r medium fan speed / At low fan speed	m³/min	22.5 / 19.5 / 16.0	31.0 / 26.0 / 21.0
		Heating At high fan speed / At r medium fan speed / At low fan speed	m³/min	22.5 / 19.5 / 16.0	31.0 / 26.0 / 21.0
Air filter	Type			Resin net with m	nold resistance
Sound power level	Cooling	At high fan speed / At medium fan speed / At low fan speed	dBA	58 / 56 / 54	65 / 62 / 58
Sound pressure level	Cooling	At high fan speed / At medium fan speed / At low fan speed	dBA	40.0 / 38.0 / 36.0	47.0 / 44.0 / 40.0
	Heating	At high fan speed / At medium fan speed / At low fan speed	dBA	40.0 / 38.0 / 36.0	47.0 / 44.0 / 40.0
Refrigerant	Type/GWP			R-410A/	2,087.5
Piping connections	Liquid	OD	mm	9.5	2
	Gas	OD	mm	15.	9
	Drain			I.D. 20/0	D.D. 26
Power supply	Phase/Fred	quency/Voltage	Hz/V	1~/50/60/220-	240/220-230
Current - 50Hz	Maximum	fuse amps (MFA)	Α	16	·
Control systems	Infrared re	mote control		BRC7	C58
	Wired rem	ote control		BRC1H52W/S/K / BRC1E53A / BR	C1E53B / BRC1E53C / BRC1D52

### **Concealed floor standing unit**

### Designed to be concealed in walls

- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Requires very little installation space as the depth is only 200mm



- > Its low height (620 mm) enables the unit to fit perfectly beneath a window
- > High ESP allows flexible installation



# Click or scan the code to access all technical information



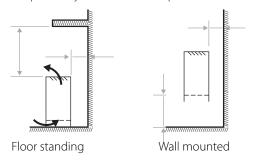
			FXNQ	20A	25A	32A	40A	50A	63A
Total capacity	At high far	speed	kW	2.20	2.80	3.60	4.50	5.60	7.10
Total capacity	At high far	speed	kW	2.50	3.20	4.00	5.00	6.30	8.00
Cooling	At high far	speed	kW		0.071		0.078	0.099	0.110
Heating	At high far	speed	kW		0.068		0.075	0.096	0.107
Unit	HeightxWi	dthxDepth	mm	6	520 / 720 (1)x790x20	00	620 / 720 (1	)x990x200	620 / 720 (1) x1,190x200
Unit			kg		23.5		27	7.5	32.0
Material						Galvanised	l steel plate		
Air flow rate - 50Hz	Cooling	At high fan speed / At medium fan speed / At low fan speed	m³/min		8.0 / 7.20 / 6.4		10.5 / 9.50 / 8.5	12.5 / 11.0 / 10.0	16.5 / 14.5 / 13.0
	Heating	At high fan speed / At medium fan speed / At low fan speed	m³/min		8.0 / 7.2 / 6.4		10.5 / 9.5 / 8.5	12.5 / 11.0 / 10.0	16.5 / 14.5 / 13.0
External static pressure - 50Hz	Factory se	t / High	Pa	10 ,	/ 41.0	10 / 42.0	15 / 52.0	15 / 59.0	15 / 55.0
Туре						Resi	n net		
Cooling	At high far	speed	dBA		51		52	53	54
Cooling		•	dBA		30.0 / 28.5 / 27.0		32.0 / 30.0 / 28.0	33.0 / 31.0 / 29.0	35.0 / 33.0 / 32.0
		•	dBA		30.0 / 28.5 / 27.0		32.0 / 30.0 / 28.0	33.0 / 31.0 / 29.0	35.0 / 33.0 / 32.0
Type/GWP						R-410A	/2,087.5		,
Liquid	OD		mm			6.35			9.52
Gas	OD		mm			12.7			15.9
Drain						VP20 (I.D.	20/O.D. 26)		
Phase/Fred	uency/Vol	tage	Hz/V			1~/50/60/2	20-240/220		
Maximum	fuse amps	MFA)	Α			1	6		
Infrared re	mote contr	ol	Ī			BRC	4C65		
	Total capacity Cooling Heating Unit Unit Material Air flow rate - 50Hz  External static pressure - 50Hz Type Cooling Cooling Type/GWP Liquid Gas Drain Phase/Free Maximum	Total capacity At high far Cooling At high far Heating At high far Unit HeightxWi  Unit Material Air flow rate Cooling -50Hz  External static pressure -50Hz Type Cooling At high far Cooling At high far fan speed / Heating At high far fan speed / Type/GWP Liquid OD Gas OD Drain Phase/Frequency/Vol Maximum fuse amps (	Heating At high fan speed Unit HeightxWidthxDepth  Unit Material Air flow rate Cooling At high fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At high fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At low fan speed / At 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        Cooling At high fan speed         kW         0.071         0.078         0.099           Heating At high fan speed         kW         0.068         0.075         0.096           Unit         HeightxWidthxDepth         mm         620 / 720 (1)x790x200         620 / 720 (1)x990x200           Unit         kg         23.5         27.5           Material         Galvanised steel plate           Air flow rate Cooling At high fan speed / At m³/min medium fan speed / At low fan speed         8.0 / 7.20 / 6.4         10.5 / 9.50 / 8.5         12.5 / 11.0 / 10.0           External static Plate         Factory set / High         Pa         10 / 41.0         10 / 42.0         15 / 52.0         15 / 59.0           External static Plate         Factory set / High         Pa         10 / 41.0         10 / 42.0         15 / 52.0         15 / 59.0           Type         External static Plate         Factory set / High         Pa         10 / 41.0         10 / 42.0         15 / 52.0         15 / 59.0

Contains fluorinated greenhouse gases

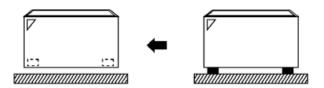
### Floor standing unit

### For perimeter zone air conditioning

- > Unit can be installed as free standing model by use of optional back plate
- > Its low height enables the unit to fit perfectly beneath a window
- > Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7012) blends easily with any interior
- > Requires very little installation space



> Wall mounted installation facilitates cleaning beneath the unit where dust tends to accumulate



> Wired remote control can easily be integrated in the unit



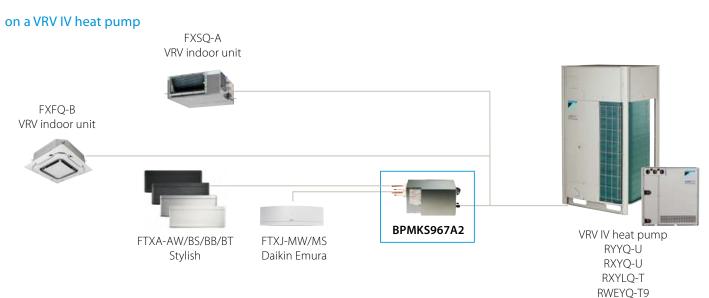


Indoor unit				FXLQ	20P	25P	32P	40P	50P	63P
Cooling capacity	Total capacity	At high far	n speed	kW	2.2 2.8		3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high far	n speed	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	At high far	n speed	kW	C	.05	0.	.09	0	.11
	Heating	At high far	n speed	kW	C	.05	0.	.09	0	.11
Dimensions	Unit	HeightxWi	dthxDepth	mm	600x1,	000x232	600x1,	140x232	600x1,	420x232
Weight	Unit			kg		27	3	32	3	88
Fan	Air flow rate - 50Hz	Cooling	At high fan speed / At low fan speed	m³/min	7,	6.0	8 / 6.0	11 / 8.5	14 / 11.0	16 / 12.0
Air filter	Туре						Resi	n net		
Sound power level	Cooling	At high far	n speed	dBA		54		57	58	59
Sound pressure level	Cooling	At high far fan speed	speed / At low	dBA		35 / 32		38 / 33	39 / 34	40 / 35
	Heating	At high far fan speed	speed / At low	dBA		35 / 32		38 / 33	39 / 34	40 / 35
Refrigerant	Type/GWI	P					R-410A	/2,087.5		
Piping connections	Liquid	OD		mm			6	,35		
	Gas	OD		mm			12.7			15.9
	Drain						O.D. 21 (Vinyl chloride)			
Power supply	Phase/Fre	equency/Vol	tage	Hz/V			1~/50/60/220-240/220			
Current - 50Hz	Maximum	n fuse amps (	(MFA)	Α			15			
Control systems	Infrared r	emote contr	ol				BRC4C65			
Wired remote control						BRC1H52W/	S/K / BRC1E53A / B	RC1E53B / BRC1E5	3C / BRC1D52	

### VRV heatpump combined with

# stylish indoor units

Combine VRV indoor units with stylish indoor units



Connect <u>only</u> stylish indoor units to VRV IV S-series or VRV IV W-series outdoor units



<sup>\*</sup> Special order unit, contact your local sales representative for more information

### BPMKS967A

### **Branch provider**

To connect Split and Sky Air indoor units to VRV outdoor units



Branch provider			BPMKS967A2	BPMKS967A2
Connectable indoor u	units		1~2	1~3
Max. indoor unit conn	nectable capacity		14.2	20.8
Max. connectable con	mbination		71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x29	94x350
Weight		kg	7	8

Connectable outdoor unit

# Products overview Stylish indoor units

Depending on the application, Split and Sky Air indoor units can be connected to our VRV IV and VRV IV S-series outdoor units. Refer to the autdoor unit portfolio for combination restriction

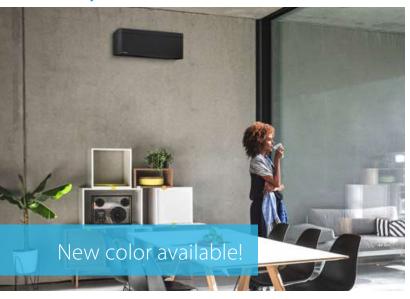
outdoor Type	unit portfolio for combinat  Model	Product name	5.	15	20	25	35	42	Capacit	ey class	(kW)	RYYQ-U	RXYQ-U	RXYSCQ-TV1³ RXYSQ-TV9³ RXYSQ-TY9/TY1³	RWEYQ-T94	RXYLQ-T
7712	Round flow cassette (incl. auto-cleaning function')	FCAG-B					•		•	•				<b>✓</b>		
Ceiling mounted cassette	Fully flat cassette	FFA-A9				•	•		•	•				<b>√</b>		
Concealed	Slim concealed ceiling unit	FDXM-F9				•	•		•	•				<b>√</b>		
ceiling	Concealed ceiling unit with inverter-driven fan	FBA-A(9)					•		•	•		ito clea lter opi		<b>✓</b>		
Wall	Daikin Emura  Wall mounted unit reddot award 2014 winner	FTXJ-MW/MS			•	•	•		•			✓	<b>√</b>	<b>√</b>	✓	<b>✓</b>
mounted	Stylish Wall mounted unit	FTXA-AW/ BS/BB/BT			•	•	•	•	•			<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>
Ceiling suspended	Ceiling suspended unit	FHA-A(9)					•		•	•	•			<b>✓</b>		
Floor	Floor standing unit	FVXM-F				•	•		•			~	~	<b>√</b>	<b>✓</b>	<b>✓</b>
standing	Concealed floor standing unit	FNA-A9				•	•		•	•				<b>√</b>		

<sup>&</sup>lt;sup>1</sup> Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E\* or BRC1H\* needed

 $<sup>^{\</sup>rm 2}$  To connect stylish indoor units a BPMKS unit is needed

<sup>&</sup>lt;sup>3</sup> A mix of RA indoor units and VRV indoor units is not allowed.

<sup>&</sup>lt;sup>4</sup> Only in heat pump operation





# Stylish where innovation meets creativity



White FTXA-AW



Black FTXA-BB



Silver FTXA-BS



Blackwood FTXA-BT

### Available in 4 colours

- > Users can choose from **four distinct colours** (white, silver, black and blackwood)
- > Curved corners create an unobtrusive and space-saving design
- > Thin dimensions make it the most compact design unit on the market
- > Simple panel enables variation in texture and colour to easily blend into any room
- > Award winning design: Stylish earned the Reddot award, the Good Design Award and iF award for its innovative look and functional capabilities







### The Coanda effect

Already present in the Ururu Sarara, the **Coanda effect** optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

The Coanda effect creates two different airflow patterns depending on whether Stylish is in cooling or heating mode. On the top is the Coanda effect in cooling mode (ceiling airflow), while the bottom images demonstrate the Coanda effect in heating mode (vertical airflow).









### stylish

### Wall mounted unit

### Most compact design wall mounted unit

- > A compact and functional design suitable for all interiors in a white, black, silver and blackwood coloured elegant finish
- > The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- > The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- STANDARD INCLUDED
- Online controller: control your indoor from any location with an app, via your local network or internet
- > Powerful air purification increases indoor air quality with Daikin Flash Streamer technology
- > Practically inaudible: the unit runs so quietly, you will almost forget it is there.

















TXA-BB

Indoor unit			FTXA	CTXA15 AW/BS/BT/BB	20AW/BS/BT/BB	25AW/BS/BT/BB	35AW/BS/BT/BB	42AW/BS/BT/BB	50AW/BS/BT/BB			
Dimensions	Unit	HeightxWidthxDepth	mm		295x798x189							
Weight	Unit		kg			1	2					
Air filter	Type					Removable	/ washable					
Fan	Air flow rate	Cooling Silent operation/ Low/Medium/ High	m³/min	4.6 / 6.1 / 8.2 / 11.0	4.6/6.1/8 /11.0	4.6/6.1/9 /11.5	4.6/6.1/9 /11.9	4.6/7.2/10 /13.1	5.2/7.6/10 /13.5			
		Heating Silent operation/ Low/Medium/ High	m³/min	4.5/6.4/	/8.7 /10.9	4.5/6.4/9.0 /11.1	4.5/6.4/9.0 /11.5	5.2/7.7/10.5 /14.6	5.7/8.2/11.1 /15.1			
Sound power level	Cooling		dBA		57			60				
Sound pressure	Cooling	Silent operation/Low/High	dBA	19/2	25/39	19/25/40	19/25/41	21/29/45	24/31/46			
level	Heating	Silent operation/Low/High	dBA	19/2	25/39	19/25/40	19/25/41	21/29/45	24/31/46 24/33/46			
Control systems	Infrared re	emote control				ARC4	RC466A58					
	Wired ren	note control		BRC073								
Power supply	Phase/Fre	quency/Voltage	Hz/V			1~/50/2	220-240					



### Wall mounted unit

### Design at its best, delivering superior efficiency and comfort

- Remarkable blend of iconic design and engineering excellence with an elegant finish in silver and anthracite or in matt crystal white
- Daikin Emura has been awarded with Reddot design award 2014 by an international jury, thanks to its excellent design
- > Designed to perfectly balance technological leadership and the beauty of aerodynamics
- > Online controller : control your indoor from any location with an app, via your local network or internet
- > Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!







FTXJ-MS

FTXJ-MW

Indoor unit				FTXJ	20MW	20MS	25MW	25MS	35MW	35MS	50MW	50MS	
Dimensions	Unit	HeightxV	VidthxDepth	mm	303x998x212								
Weight	Unit			kg				1.	2.0				
Air filter	Type							Removable	e / washable				
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m³/min		2.6/4.4	/6.6 /8.9		2.9/4.8/	7.8 /10.9	3.6/6.8/	8.9 /10.9	
		Heating	Silent operation/ Low/Medium/High	m³/min	3.8/6.3/	/8.4 /10.2	3.8/6.3/	8.6 /11.0	4.1/6.9/9	9.6 /12.4	5.0/8.1/1	0.5 /12.6	
Sound power level	Cooling			dBA		5	54		5	9	6	0	
	Heating			dBA		5	56		5	9	6	0	
Sound pressure	Cooling	Silent ope	eration/Low/High	dBA		19/2	25/38		20/2	6/45	32/3	5/46	
level	Heating	Silent ope	eration/Low/High	dBA	19/2	8/40	19/2	8/41	20/2	9/45	32/3	5/47	
Control systems	Infrared re	emote cont	trol		ARC466A9								
	Wired ren	note contro	ol	-									
Power supply	Phase/Fre	quency/Vo	oltage	Hz/V			1~/50/220-240						

### Floor standing unit

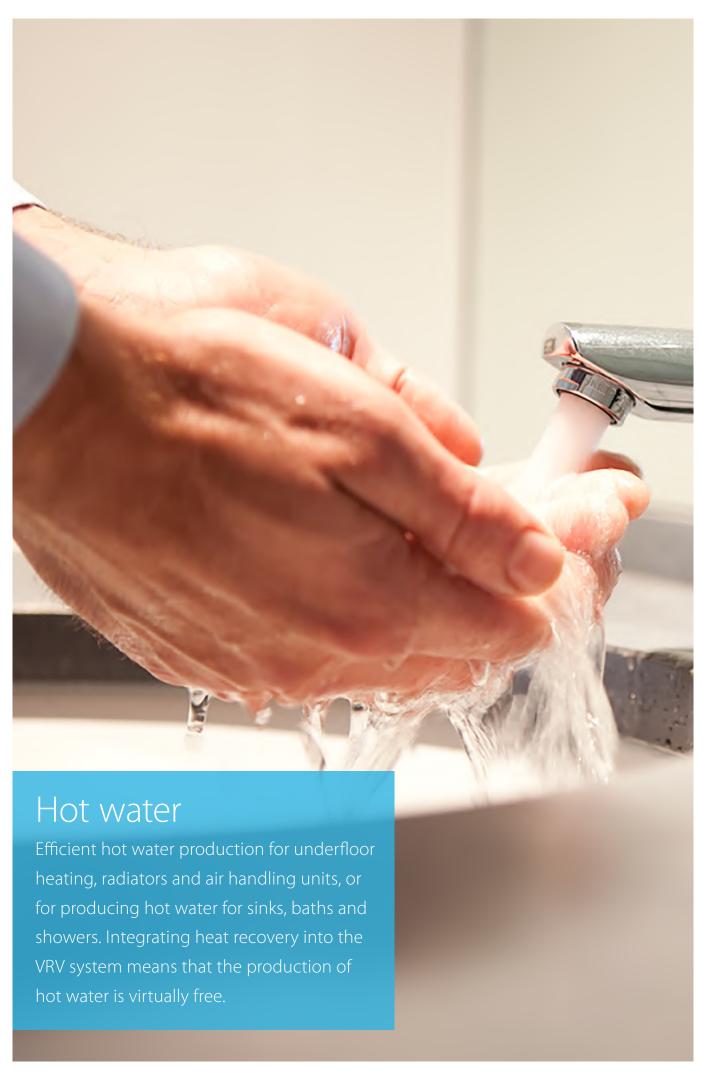
### Floor standing unit for optimal heating comfort thanks to dual airflow

- > Its low height enables the unit to fit perfectly beneath a window
- > Can be installed against a wall or recessed
- > Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- > Online controller (optional): control your indoor from any location with an app, via your local network or internet





Indoor unit				FVXM	25F	35F	50F
Dimensions	Unit	HeightxW	/idthxDepth	mm		600x700x210	
Weight	Unit			kg		14	
Air filter	Туре					Removable / washable	
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m³/min	4.1/4.8/6.5 /8.2	4.5/4.9/6.7 /8.5	6.6/7.8/8.9 /10.1
		Heating	Silent operation/ Low/Medium/High	m³/min	4.4/5.0/6.9 /8.8	4.7/5.2/7.3 /9.4	7.1/8.5/10.1 /11.8
Sound power level	Cooling			dBA	5	52	57
	Heating			dBA	5	52	58
Sound pressure	Cooling	Silent ope	ration/Low/High	dBA	23/26/38	24/27/39	32/36/44
level	Heating	Silent ope	ration/Low/High	dBA	23/26/38	24/27/39	32/36/45
Control systems	Infrared rem	ote contro	ı			ARC452A1	
	Wired remot	e control				-	
Power supply	Phase/Frequ	ency/Volta	age	Hz/V		1~/50/220-230-240	



# Hot water

Hot water	135
Low temperature hydrobox	
HXY-A8	136
High temperature hydrobox	
HXHD-A8 Accessories for hot water	137 138

### Hydrobox range

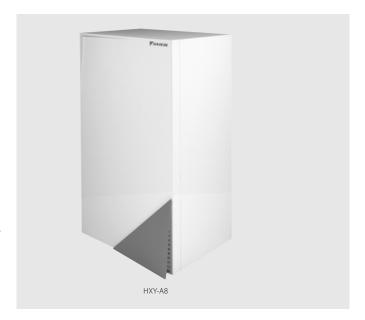
Capacity class (kW)

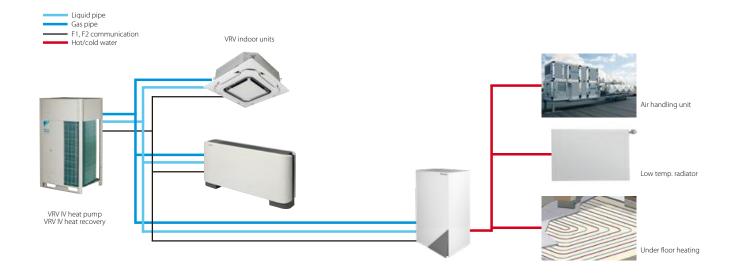
Туре	Product name	Model	80	125	200	Leaving water temperature range
Low temperature hydrobox	HXY-A8	For high efficiency space heating and cooling  > Ideal for hot or cold water in underfloor, air handling units, low temperature radiators  > Hot/cold water from 5° to 45°C  > Large operation range (down to -20°C and up to 43°C)  > Fully integrated water-side components save time on system design  > Space saving contemporary wall hung design	•	•		5 °C - 45 °C
High temperature hydrobox	HXHD-A8	For efficient hot water production and space heating  > Ideal for hot water in bathrooms, sinks and for underfloor heating, radiators, air handling units,  > Hot water from 25 to 80°C  > "Free" heating and hot water through heat recovery  > Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler  > Possibility to connect thermal solar collectors		•	•	25 °C - 80 °C

# Low temperature hydrobox for VRV

### For high efficiency space heating and cooling

- > Air to water connection to VRV for applications such as underfloor, air handling units, low temperature radiators, ...
- > Leaving water temperature range from 5°C to 45°C without electric heater
- Super wide operating range for hot/cold water production from -20 to +43°C ambient outdoor temperature
- > Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- > Space saving contemporary wall mounted design
- > No gas connection or oil tank needed
- > Connectable to VRV IV heat pump and heat recovery





# Click or scan the code to access all technical information



ndoor Unit			HXY	080A8	125A8	
Cooling capacity	Nom.		kW	8.0 (1)	12.5 (1)	
Heating capacity	Nom.		kW	9.00 (2)	14.00 (2)	
Dimensions	Unit	Height x Width x Depth	mm	890 x 480 x 344		
Weight	Unit		kg	4-	4	
Casing	Colour			White		
	Material			Precoated sheet metal		
Operation range	Cooling	Ambient Min. ~ Max.	°CDB	10 ~	43	
		Water side Min. ~ Max.	°C	5~20		
	Heating	Ambient Min. ~ Max.	°C	-20 ~	~ 24	
		Water side Min. ~ Max.	°C	25 ~	· 45	
Refrigerant	Туре			R-410A		
	GWP			2,087.5		
Refrigerant circuit	Gas side diameter mm			15.9		
	Liquid side diameter mm		mm	9.5		
Water circuit	Piping connections diameter inch		inch	G 1"1/4 (female)		
Power supply	Phase / Frequency / Voltage Hz / V		Hz/V	1~/50/220-240		
Current	Recommended fuses A		Α	6~16		

(1) Tamb 35°C - LWE 18°C (DT=5°C) | (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) | Contains fluorinated greenhouse gases

# High temperature hydrobox for VRV

### For efficient hot water production and space heating

- Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- > Leaving water temperature range from 25 to 80°C without electric heater
- "Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- > Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler
- Possibility to connect thermal solar collectors to the domestic hot water tank
- Super wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- Various control possibilities with weather dependant set point or thermostat control
- The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available



- > No gas connection or oil tank needed
- > Connectable to VRV IV heat recovery





Indoor Unit			HXHD	125A	200A	
Heating capacity	Nom.		kW	14.0	22.4	
Dimensions	Unit	Height x Width x Depth	mm	705 x 60	00 x 695	
Weight	Unit		kg	92.0	147	
Casing	Colour			Metalli	ic grey	
	Material			Precoated s	heet metal	
Sound power level	Nom.		dBA	55.0 (2)	60.0 (2)	
Sound pressure	Nom.		dBA	42.0 (2) / 43.0 (3)	46.0 (2) / 46.0	
level	Night quiet mode	Level 1	dBA	38 (2)	45 (2)	
Operation range	Heating Ambient Min. ~ Max		°C	-20.0 ~ 20 / 24 (1)		
		Water side Min. ~ Max.	°C	25 ~	80.0	
	Domestic	Ambient Min. ~ Max.	°CDB	-20.0	~ 43.0	
	hot water	Water side Min. ~ Max.	°C	45 ~ 75		
Refrigerant	Type			R-134a		
	GWP			1,4	30	
	Charge		kg	2.00	2.60	
Water circuit	Piping con	nections diameter	inch	G 1" (fe	emale)	
	Heating water system	Water volume Max. ~ Min.	I	200 ~ 20	400 ~ 20	
Power supply	Phase / Fre	equency / Voltage	Hz/V	1~ / 50 / 220-240	3~/50/380-415	
Current	Recomme	nded fuses	Α	20	16	

### **EKHWP-B**

### Domestic hot water tank

### Plastic domestic hot water tank with solar support

- > Tank designed for connection with drainback thermal solar system
- > Available in 300 and 500 liters
- Large hot water storage tank to provide domestic hot water at any time
- > Heat loss is reduced to a minimum thanks to the high quality insulation
- > Space heating support possible (500l tank only)





 		-		-
FI	⟨∟	۱۱۸	/D.	.R

Accessory			EKHWP	300B	500B	
Casing	Colour			Traffic white (RAL9016	) / Dark grey (RAL7011)	
	Material			Impact resistant	t polypropylene	
Dimensions	Unit	Height	mm	1,650	1,660	
		Width	mm	595	790	
		Depth	mm	615	790	
Weight	Unit	Empty	kg	58	82	
Tank	Water volui	me	1	294	477	
	Material			Polypr	opylen	
	Maximum v	water temperature	°C	8	5	
	Insulation		kWh/24h	1.5	1.7	
	Energy efficiency class			В		
	Standing heat loss W			64	72	
	Storage volume I			294	477	
Heat exchanger	Domestic	Quantity		•	1	
	hot water	Tube material		Stainless steel (DIN 1.4404)		
		Face area	m <sup>2</sup>	5.600	5.800	
		Internal coil volume	- 1	27.1	28.1	
		Operating pressure	bar	6	5	
		Average specifc thermal output	W/K	2,790	2,825	
	Charging	Quantity		•	1	
		Tube material		Stainless stee	el (DIN 1.4404)	
		Face area	m <sup>2</sup>	3	4	
		Internal coil volume	- 1	13	18	
		Operating pressure	bar	:	3	
		Average specifc thermal output	W/K	1,300	1,800	
	Auxiliary	Tube material		-	Stainless steel (DIN 1.4404)	
	solar	Face area	m <sup>2</sup>	-	1	
	heating	Internal coil volume	- 1	-	4	
	neating	Operating pressure	bar	-	3	
		Average specifc thermal output	W/K	-	280	

Contains fluorinated greenhouse gases

### **EKHWP-PB**

### Domestic hot water tank

### Pressureless domestic hot water tank with solar support

- > Tank designed for connection with pressurised thermal solar system
- > Available in 300 and 500 liters
- Large hot water storage tank to provide domestic hot water at any time
- > Heat loss is reduced to a minimum thanks to the high quality insulation
- > Space heating support possible (500l tank only)







300PB

EKHWP500PB

Accessory			EKHWP	300PB	500PB	
Casing	Colour			Traffic white (RA	AL9016) / Dark grey (RAL7011)	
J	Material				esistant polypropylene	
Dimensions	Unit	Height	mm	1,650	1,660	
		Width	mm	595	790	
		Depth	mm	615	790	
Weight	Unit	Empty	kg	58	89	
Tank	Water volur	ne	Ĭ	294	477	
	Material				Polypropylen	
	Maximum v	vater temperature	°C		85	
	Insulation		kWh/24h	1.5	1.7	
	Energy effic	iency class			В	
	Standing he		W	64	72	
	Storage vol	ume	1	294	477	
Heat exchanger	Domestic	Quantity			1	
	hot water	Tube material		Stainless steel (DIN 1.4404)		
	not water	Face area	m²	5.600	5.900	
		Internal coil volume	1	27.1	28.1	
		Operating pressure	bar		6	
		Average specifc thermal output	W/K	2,790	2,825	
	Charging	Quantity			1	
	3 3	Tube material		Stainle	ess steel (DIN 1.4404)	
		Face area	m²	3	4	
		Internal coil volume	1	13	18	
		Operating pressure	bar		3	
		Average specifc thermal output	W/K	1,300	1,800	
	Pressurised solar	Average specifc thermal output	W/K	390.00	840.00	
	Auxiliary	Tube material		-	Stainless steel (DIN 1.4404)	
	solar	Face area	m <sup>2</sup>	-	1	
	heating	Internal coil volume		-	4	
	ricating	Operating pressure	bar	-	3	
		Average specifc thermal output	W/K	-	280	

Contains fluorinated greenhouse gases

### EKS(V/H)-P

### Solar collector

### Thermal solar collector for hot water production

- Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- Horizontal and vertical solar collector for domestic hot water production
- > High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- > Easy to install on roof tiles

## Click or scan the code to access all technical information









Accessory	EK	SV/EKSH	21P	261	•
Mounting			Vert	tical	Horizontal
Dimensions	Unit HeightxWidthxDepth	mm	1,006x8	5x2,000	2,000x85x1,300
Weight	Unit	kg	33	42	
Volume		Ĭ	1.3	1.7	2.1
Surface	Outer	m²	2.01	2.60	0
	Aperture	m²	1.800	2.36	0
	Absorber	m²	1.79	2.3	5
Coating				m (absorption max. 96%, Emission ca.	
Absorber			Harp-shaped copper pipe re	egister with laser-welded highly selecti	ve coated aluminium plate
Glazing			Sing	le pane safety glass, transmission +/- 9	2%
Allowed roof angle	Min.~Max.	٥		15~80	
Operating pressure	Max.	bar		6	
Stand still temperature	Max.	°C		192	
Thermal	collector efficiency (ηcol)	%		61	
performance	Zero loss collector efficiency n0	%	0.781	0.784	
periormanee	Heat loss coefficient a1	W/m².K	4.240 4.250		0
	Temperature dependence of the heat loss coefficient a2 W/m <sup>2</sup> .K <sup>2</sup>		0.006	0.007	
	Thermal capacity	kJ/K	4.9	6.5	i i
Auxiliary	Solpump	W		-	
•	Solstandby	W		-	
	Annual auxiliary electricity consumption Qaux	kWh		-	

Contains fluorinated greenhouse gases

### EKSRDS2A/EKSRPS4A

### **Pump station**

- Save energy and reduce CO<sub>2</sub> emissions with a solar system for domestic hot water production
- > Pump station connectable to unpressurised solar system
- Pump station and control provide the transfer of solar heat to the domestic hot water tank









Accessory		EKSRPS4A/EKS	SRDS2A	EKSRPS4A	EKSRDS2A
Mounting				On side of tank	On wall
Dimensions	Unit Hei	ightxWidthxDepth	mm	815x142x230	410x314x154
Weight	Unit	•	kg	6.4	6
Operation range	Ambient temperature Mir	n.~Max.	°Č	5~40	0~40
Operating pressure	Max.		bar	-	6
Stand still temperature	Max.		°C	85	120
Thermal performance	collector efficiency (ηcol) %			-	
	Zero loss collector effi	ciency η0	%	-	
Control	Type			Digital temperature difference o	ontroller with plain text display
	Power consumption		W	2	5
Power supply	Phase/Frequency/Volt	tage	Hz/V	1~/50/230	/50/230
Sensor	Solar panel temperature sensor			Pt10	000
	Storage tank sensor			PTC	-
	Return flow sensor			PTC	-
	Feed temperature and	d flow sensor		Voltage signal (3.5V DC)	-
Power supply intake				Indoo	r unit
Auxiliary	Solpump		W	37.3	23
	Solstandby		W	2.00	5.00
	Annual auxiliary electricity	consumption Oaux	kWh	92.1	89







Why choose Daikin ventilation	142
ERV / HRV - Energy/Heat recovery ventilation units	144
ALB-LBS/RBS - Modular L Smart Heater for Modular L Smart VAM-FC9/VAM-J Heater for VAM VKM-GB(M)	146 147 148 149 150
Daikin air handling units with DX connection	151
Advantages Overview of VRV & ERQ condensing units Control possibilities	151 152 153
Integration in third party AHU	156
Expansion valves & Control boxes	156

# reasons Daikin's ventilation range is unique in the market

- Market leading controls& connectivity
  - > Interlock of ventilation and air conditioning system
    - Control ERV/HRV and air conditioning from the same controller
    - Aligns the operation mode between the systems to save energy
  - > Easy integration in the total solution
    - Online control and monitoring via the Daikin Cloud Service
    - Full portfolio integration in the intelligent Touch Manager, Daikin's cost-effective mini BMS
  - > User-friendly controller with premium design
    - Intuitive touch button control

Madoka







- Integrates seamlessly in the Daikin total solution, ensuring a single point of contact
- > Total fresh air solution with Daikin supplying both the VAM/Modular L Smart and the electrical heater
- Daikin AHU and condensing unit connect Plug & Play thanks to same pipe diameters, factory mounted controls, expansion valves, etc.





- 3 High energy efficiency
  - > Energy recovery of up to 92%, reducing running costs
  - > Free nighttime cooling using fresh outside air
  - > Inverter driven centrifugal fans
  - > ErP compliant



- 4 Best comfort
  - > Wide range of units to control fresh air and humidity
  - > Wide range of optional filters to suit the application available up to ePM, 80% (F9)
  - Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)



- 5 Top reliability
  - > Most extensive testing before new units leave the factory
  - > Widest support network and after sales service
  - > All spare parts available in Europe



Did you know?

CO<sub>2</sub> levels and ventilation rates all have significant, independent impacts on cognitive function:

COGNITIVE FUNCTION SCORES ...



+61%

IN GREEN BUILDING CONDITIONS



+101%

IN ENHANCED
GREEN BUILDING CONDITIONS

# Widest range of DX integrated ventilation on the market

Daikin offers a variety of solutions from small energy recovery ventilation to large-scale air handling units for the provision of fresh air ventilation to homes, or commercial premises.

### Ventilation solutions

Daikin offers state-of-the-art ventilation solutions that can easily be integrated into any project:

- > Unique portfolio within DX manufacturers
- > High-quality solutions complying with the highest Daikin quality standards
- > Seamless integration of all products to provide the best indoor climate
- All Daikin products connected to a single controller for complete control
  of the HVAC system.

### **Energy Recovery Ventilation**

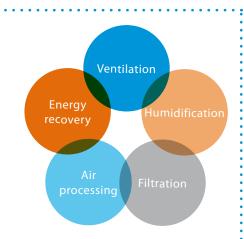
Our energy recovery units **recover sensible energy** (Modular L Pro / Modular L Smart) or **total** (**sensible + latent**) **energy** (VAM/VKM), substantially reducing the load on the air conditioning system up to 40%.

### Ventilation with DX connection - Control over fresh air temperature

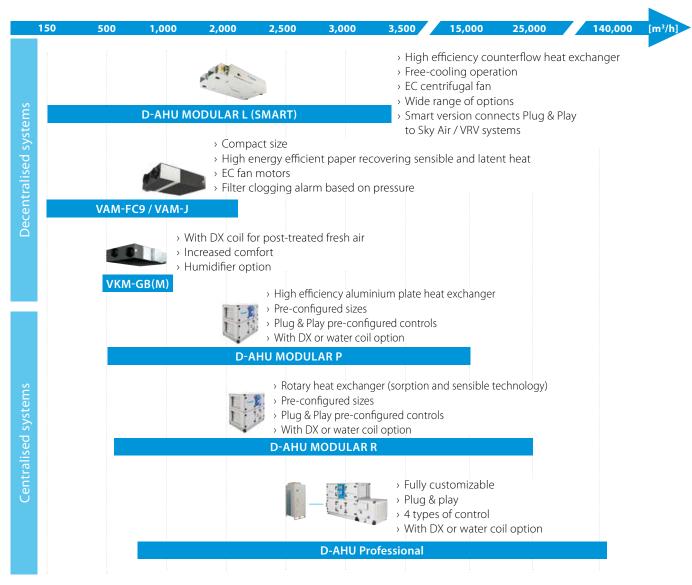
Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be combined to the same outdoor unit to reduce the installation costs. For **false-ceiling installations** where space is a constraint, the VKM can fit perfectly to deliver fresh air at a comfortable temperature and it has an optional humidification element.

# Five components of indoor air quality

- > Ventilation: Ensures the provision of fresh air
- > **Energy recovery:** Delivers energy savings by transferring heat and moisture between airflows
- > **Air processing:** Delivers the right supply temperature to decrease the indoor unit load
- > **Humidification:** Ensures relative indoor humidity levels are respected
- > **Filtration:** Separates pollen, dust and pollution odours that are harmful to individuals' health



# Fresh air portfolio



# **Modular L Smart**

# Premium efficiency heat recovery unit

# Highlights

- Connects Plug&Play into the Sky Air and VRV control network
- Easy installation and commissioning
- Internal pre-filter stage (up to ePM, 50% (F7) + ePM, 80% (F9)) making the unit reach highest indoor air quality requirements.
- Wide air flow coverage from 150m<sup>3</sup>/h to 3,450m<sup>3</sup>/h
- Exceeding ErP 2018 requirements
- Best choice when compactness is needed (only 280 mm height up to 550 m<sup>3</sup>/h)
- 50 mm double skin panel (120 kg/m³) for a maximum sound and thermal insulation

# EC centrifugal fan

- Maximum ESP available 600 Pa (depending on model sizes and
- Inverter driven with IE4 premium efficiency motor
- High-efficient blade profiling
- Reduced energy consumption
- Optimized SFP (Specific Fan Power) for an efficient unit operation

# Heat exchanger

- Premium quality counter flow plate heat exchanger
- Up to 91% of the thermal energy recovered
- High grade aluminum allowing optimum corrosion protection



Right drain connection (ALB-RBS)



Left drain connection (ALB-LBS)

For integration with Applied systems, please refer to the Modular L

Click or scan the code to access all technical information





# Technical details

<b>D-AHU Modular L Smart</b>			02	03	04	05	06	07
Airflow		m³/h	300	600	1,200	1,500	2,300	3,000
Heat exchanger thermal ef	ficiency¹.	%	8	88	89	88	89	88
External static pressure	Nom.	Pa			10	00		
Current	Nom.	Α	0.52	1.26	2.17	2.74	4.35	6.09
Power input	Nom.	kW	0.12	0.29	0.50	0.63	1.00	1.40
SFPv <sup>2</sup> .		kW/m³/s	1.25	1.52	1.3	1.35	1.34	1.5
ERP compliant					ErP 2018 (	Compliant		
Electrical supply	Phase	ph				1		
,	Frequency	Hz			50	/60		
	Voltage	V			220/2	40 Vac		
Main unit dimensions	Width	mm	920	1,100	1,6	500	2,0	000
	Height	mm	280	350	4	15	50	00
	Length	mm	1,660	1,800		2,0	000	
Rectangular duct flange	Width	mm	250	400	5	00	70	00
Height mm 150 200 300						00	400	
Unit Sound Power Level (L	wa)	dBA	50	5	57	53	62	58
Unit Sound Pressure Level	3.	dBA	34	4	41	37	46	41
Weight unit		kg	125	180	270	280	355	360

- 1. Winter design condition: Outdoor: -5°C, 90% Indoor: 22°C, 50%
- 2. SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases. 3. EN 3744. Surrounding, Directivity (Q) = 2, @1,5m distance
- 4. Electrical current is based on 230V

# Electrical heater for Modular L Smart

- > Total solution for fresh air with Daikin supply of both Modular L Smart and electrical heaters
- > Increase comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- > Standard dual flow and temperature sensor
- > Heater only consumes what is required to pre-heat to the desired minimum fresh air temperature; thus saving energy



# Click or scan the code to access all technical information





Electrical heater for Modular L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB
Capacity kW	1,5	3	7,5	15
Connectable Modular L Smart size	02	03	04, 05	06, 07
Supply voltage	230\	/,1ph	400V,	3ph
Output current (maximum) (A)	6,6	13,1	10,9	21,7
T	15k ohms at -20 °C	16k ohms at -20 °C	17k ohms at -20 °C	18k ohms at -20 °C
Temperature sensor	10k ohms at +10 °C	10k ohms at +10 °C	10k ohms at +10 °C	10k ohms at +10 °C
Temperature control range			- 20 °C to 10 °C	
Control fuse			Mini Circuit Breaker 6 A	
LED indicators			"Yellow = Airflow fault Red = Heat ON"	
Mounting holes			Depends on duct size	
Maximum ambient adjacent to terminal box			30°C (during operation)	
Auto high temperature cutout			75°C Pre-set	
Manual reset high temperature cutout			120°C Pre-set	
Width (mm)	470	620	720	920
Depth (mm)	370	370	370	370
Height (mm)	193	243	343	443

# **Energy recovery ventilation**

# Ventilation with heat recovery as standard

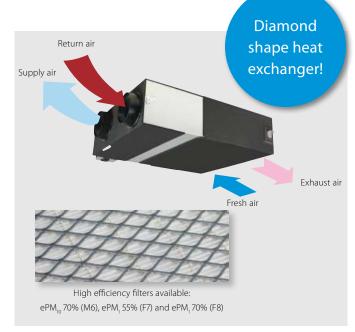
- > Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
- > Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- > Prevent energy losses from over-ventilation while improving indoor air quality with optional CO, sensor
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
- > Can be used as stand alone or integrated in the Sky Air or VRV system
- > Wide range of units: air flow rate from 150 up to 2,000 m<sup>3</sup>/h
- > Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- > No drain piping needed
- > Can operate in over- and under pressure
- > Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters

**Click** or **scan** the code to access all technical information











		VAIV	/VAM	150FC9	250FC9	350J	500J	650J	800J	1000J	1500J	2000J
	Nom.	Ultra high/High/Low	kW	0.132/0.111/	0.161/0.079/	0.097 /0.070 /	0.164 / 0.113 /	0.247 /0.173 /	0.303 /0.212 /	0.416 /0.307 /	0.548 / 0.384 /	0.833 /0.614 /
iange le				0.058	0.064	0.039	0.054	0.081	0.103	0.137	0.191	0.273
ss mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/	0.161/0.079/	0.085 / 0.061 /	0.148 /0.100 /	0.195 /0.131 /	0.289 /0.194 /	0.417 /0.300 /	0.525 /0.350 /	0.835 /0.600 /
				0.058	0.064	0.031	0.045	0.059	0.086	0.119	0.156	0.239
a high/l	High/Low	1	%	77.0 (1) / 72.0 (2)/	74.9(1)/69.5(2)/	051/067/	000/025/	042/064/	02 5 /04 2 /	70 6 /01 0 /	02 2 /04 0 /	79.6 /81.8 /
				78.3 (1) /72.3 (2)/	76.0 (1) / 70.0 (2)/			,				
				82.8 (1) /73.2 (2)	80.1 (1) /72.0 (2)	90.1	87.6	90.5	8/./	86.1	88.1	86.1
ling	Ultra hig	n/High/Low	%	60.3 (1)/61.9 (1)/	60.3 (1)/61.2 (1)/	65.2 /67.9/	59.2 /61.8 /	59.2 /63.8 /	67.7 /70.7 /	62.6 /66.4 /	68.9 /71.8 /	62.6 /66.4 /
				67.3 (1)	64.5 (1)	74.6	69.5	73.1	76.8	74.0	77.5	74.0
iting	Ultra hig	n/High/Low	%	66.6 (1)/67.9 (1)/	66.6 (1)/67.4 (1)/	75.5 /77.6 /	69.0 /72.2 /	73.1 /76.3 /	72.8 /75.3 /	68.6 /71.7 /	73.8 /76.1 /	68.6 /71.7 /
				72.4 (1)	70.7 (1)	82.0	78.7	82.7	80.2	77.9	80.8	77.9
						Heat exc	hange mod	le, bypass m	ode, fresh-i	up mode		
Heat exchange system  Air to air cross flow total heat (sensible + latent heat) exchange												
	ange le sss mode a high/l	nange le sss mode Nom. a high/High/Low Jling Ultra higl	lange le sss mode Nom. Ultra high/High/Low a high/High/Low Ultra high/High/Low	anange lee sss mode Nom. Ultra high/High/Low kW a high/High/Low %  Ultra high/High/Low %	ange   0.058	No.058   0.064	None   Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   No.   Ultra high/High/Low   No.   Ultra high/High/Low   No.   No	Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   Ultra high/High/Low   Nom.   Nom.   Ultra high/High/Low   W   0.132/0.1111/   0.161/0.079/   0.085   0.064   0.039   0.054   0.081   0.103   0.137   0.191				

Enthalpy exchange	Cooling	Ultra high,	/High/Low	%	60.3 (1)/61.9 (1)/	60.3 (1)/61.2 (1)/	65.2 /67.9/	59.2 /61.8 /	59.2 /63.8 /	67.7 / 70.7 /	62.6 /66.4 /	68.9 / 71.8 /	62.6 /66.4 /	
efficiency - 50Hz					67.3 (1)	64.5 (1)	74.6	69.5	73.1	76.8	74.0	77.5	74.0	
•	Heating	Ultra high	/High/Low	%	66.6 (1)/67.9 (1)/	66.6 (1)/67.4 (1)/	75.5 /77.6 /	69.0 /72.2 /	73.1 /76.3 /	72.8 /75.3 /	68.6 /71.7 /	73.8 /76.1 /	68.6 /71.7 /	
	-	_	_		72.4 (1)	70.7 (1)	82.0	78.7	82.7	80.2	77.9	80.8	77.9	
Operation mode							Heat exc	hange mod	le, bypass m	ode, fresh-	up mode			
Heat exchange sys	tem					Air	to air cross	flow total h	neat (sensibl	e + latent h	eat) exchan	ge		
Heat exchange ele	ment					Specially processed non-flammable paper								
Dimensions	Unit	HeightxW	idthxDepth	mm	285x7	76x525	301x1,1	13x886	368x1,354x920	368x1,3	54x1,172	731x1,3	54x1,172	
Weight	Unit			kg	24	1.0	46	5.5	61.5	79	9.0	15	57	
Casing	Material							Galva	anised steel	plate				
Fan	Air flow rate -	Heat exchange mode	Ultra high/High/ Low	m³/h	150 /140 /105	250 /230 /155	350 (1)/ 300 (1)/ 200 (1)	500 (1)/ 425 (1)/ 275 (1)	650 (1)/ 550 (1)/ 350 (1)	800 (1)/ 680 (1)/ 440 (1)	1,000 (1)/ 850 (1)/ 550 (1)	1,500 (1)/ 1,275 (1)/ 825 (1)	2,000 (1)/ 1,700 (1)/ 1,100 (1)	
	50Hz	Bypass mode	Ultra high/High/ Low	m³/h	150 /140 /105	250 /230 /155	350 (1)/ 300 (1)/ 200 (1)	500 (1)/ 425 (1)/ 275 (1)	650 (1)/ 550 (1)/ 350 (1)	800 (1)/ 680 (1)/ 440 (1)	1,000 (1)/ 850 (1)/ 550 (1)	1,500 (1)/ 1,275 (1)/ 825 (1)	2,000 (1)/ 1,700 (1)/ 1,100 (1)	
	External static pressure - 50Hz	Ultra high,	/High/Low	Pa		70 /63/25			90	(1)/70.0 /50.0	O (1)			
Air filter	Type				Multidirectiona	l fibrous fleeces			Multidirecti	onal fibrous	fleeces (G3	)		
Sound pressure level - 50Hz	Heat exchange mode	Ultra high,	/High/Low	dBA	27.0 /26.0 /20.5	28.0 /26.0 /21.0	34.5 (1)/ 32.0 (1)/ 29.0 (1)	37.5 (1)/ 35.0 (1)/ 30.5 (1)	39.0 (1)/ 36.0 (1)/ 31.0 (1)	39.0 (1)/ 36.0 (1)/ 30.5 (1)	42.0 (1)/ 38.5 (1)/ 32.5 (1)	42.0 (1)/ 39.0 (1)/ 33.5 (1)	45.0 (1)/ 41.5 (1)/ 36.0 (1)	
	Bypass mode	Ultra high	/High/Low	dBA	27.0 /26.5 /20.5	28.0 /27.0 /21.0	34.5 (1)/ 32.0 (1)/ 28.0 (1)	38.0 (1)/ 35.0 (1)/ 29.5 (1)	38.0 (1)/ 34.5 (1)/ 30.5 (1)	40.0 (1)/ 36.5 (1)/ 30.5 (1)	42.5 (1)/ 40.0 (1)/ 32.5 (1)	42.0 (1)/ 39.0 (1)/ 32.5 (1)	45.0 (1)/ 41.0 (1)/ 35.0 (1)	
Operation range	Around u	nit		°CDB		-			0°C~40°	CDB, 80% R	H or less			
Connection duct d	iameter			mm	100	150	20	00		250		2x2	250	
Power supply	Phase/Fre	quency/Vol	tage	Hz/V				1~;50	0/60 ; 220-24	0/220				
Current	Maximum	fuse amps	(MFA)	Α	15	5.0				16.0				
Specific energy	Cold clima	ate		kWh/(m².a)	-56.0 (5)	-60.5 (5)				-				
consumption (SEC)				kWh/(m².a)	-22.1 (5)	-27.0 (5)	-							
Warm climate kWh/(m².					-0.100 (5)	-5.30 (5)				-				
SEC class			B / See note 5	-										
Maximum flow rate				m³/h	130	207				-				
at 100 Pa ESP		ower input		W	129	160				-				
Sound power level	· ,			dB	40 18.9 (5)	43	51 54 58 61 62 65					65		
	Annual electricity consumption kWh/s					13.6 (5)	-							
Annual heating Cold climate kWh/s					41.0 (5)	40.6 (5)	-							

79.4 (5)

18.4 (5)

18.5 (5) (1)Measured according to JIS B 8628 | (2)Measured at reference flow rate according to EN13141-7 | (5) At reference flow rate in accordance with commission regulation (EU) No 1254/2014

80.2 (5)

kWh/a

kWh/a

saved

Average climate

Warm climate

# **Electrical heater for VAM**

- > Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- > Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- > Standard dual flow and temperature sensor
- > Flexible setting with adjustable setpoint
- > Increased safety with 2 cut-outs: manual & automatic



# **Click** or **scan** the code to access all technical information



	GSIEKA	10009	15018	20024	25030	35530 <sup>(1)</sup>
Capacity	kW	0.9	1.8	2.4	3.0	3.0
Duct diameter	mm	100	150	200	250	355
Connectable VAM		VAM150FC9	VAM250FC9	VAM350,500J	VAM650J, VAM800J, VAM1000J	VAM1500J, VAM2000J

				GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530			
		Height	mm	171	221	271	321	426			
Dimensions		Depth	mm	100							
		Width	mm	370	370 370 370 370						
Minimum air velocity / airflo			m/s								
winimum air veiocity / airtiow m³/h				45	100	170	265	535			
Power supply						1~230 VAC/50Hz					
Nominal current			Α	4.1	8.2	10.9	13.1	13.1			
Heating power	0.9	1.8	2.4	3.0	3.0						
Connection duct diameter m				100	150	200	250	355			
	Min.	°C	-40℃								
peration range		Max.	°C	40°C							
		Rel. Humidity	%	90%							
Temperature sensor				10 kΩ at +25°C / TJ-K10K							
Temperature sensor range				- 30°C to 105°C							
Temperature set point range	e			- 10°C to 50°C							
		flashing every 5	seconds	heater is starting up							
	LED 1	flashing every	second		air flow	detected, heating	allowed				
LED indicators	LEDI	OFF			noı	power supply or no	flow				
LED INGICATORS		ON		problem with	duct temperature	sensor, set point po	tentiometer or PTC	airflow sensor			
	UFD 0 OFF				h	eater is not operation	on				
LED 2 ON				heater is operating							
Ambient temperature adjac	nbient temperature adjacent to controller				0°C to +50°C						
Auto high temperature cut-	to high temperature cut-out				50°C						
Manual reset high temperat	unual reset high temperature cut-out				100°C						

# Energy recovery ventilation, humidification and air processing

Post heating or cooling of fresh air for lower load on the air conditioning system

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Creates a high quality indoor environment by pre conditioning of incoming fresh air
- > Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- > Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- > Low energy consumption thanks to DC fan motor
- > Prevent energy losses from over-ventilation while improving indoor air quality with optional CO<sub>2</sub> sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- > Specially developed heat exchange element with High Efficiency Paper (HEP)
- > Can operate in over- and under pressure



# **Click** or **scan** the code to access all technical information

Ventilation





VKM-GB/VKM-GBM



50GB

80GB

100GB

15

50GBM

80GBM

100GBM

Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230		
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.140	0.330/0.280/0.192	0.410/0.365/0.230	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230		
Fresh air	Cooling			kW	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0		
conditioning load	Heating			kW	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0		
Temperature exchange efficiency - 50Hz	Ultra high/High/l	_OW		%	76/76/77.5	78/78/79	74/74/76.5	76/76/77.5	78/78/79	74/74/76.5		
Enthalpy exchange	Cooling	Ultra high	/High/Low	%	64/64/67	66/66/68	62/62/66	64/64/67	66/66/68	62/62/66		
efficiency - 50Hz	Heating	Ultra high	/High/Low	%	67/67/69	71/71/73	65/65/69	67/67/69	71/71/73	65/65/69		
Operation mode						Heat exc	hange mode / Byp	ass mode / Fresh-	up mode			
Heat exchange syste	em					Air to air cros	ss flow total heat (s	ensible + latent he	eat) exchange			
Heat exchange elem	ent					Sp	ecially processed r	non-flammable pa	per			
Humidifier	System					-		Nat	tural evaporating t	ype		
Dimensions	Unit	HeightxW	idthxDepth	mm	387x1,764x832 387x1,764x1,214 3			387x1,764x832	387x1,7	54x1,214		
Weight	Unit			kg	94	110	112	100	119	123		
Casing	Material						Galvanised	l steel plate				
Fan-Air flow rate	Heat exchange mode	Ultra high	/High/Low	m³/h	500/500/440	750/750/640	950/950/820	500/500/440	750/750/640	950/950/820		
- 50Hz	Bypass mode	Ultra high	/High/Low	m³/h	500/500/440	750/750/640	950/950/820	500/500/440	750/750/640	950/950/820		
Fan-External static pressure - 50Hz	Ultra high/High/l	_OW		Pa	210/170/140	210/160/110	150/100/70	200/150/120	205/155/105	110/70/60		
Air filter	Type				Multidirectional fibrous fleeces							
Sound pressure	Heat exchange mode	Ultra high	/High/Low	dBA	39/37/35	41.5/39/37	41/39/36.5	38/36/34	40/37.5/35.5	40/38/35.5		
level - 50Hz	Bypass mode	Ultra high	/High/Low	dBA	40/38/35.5	41.5/39/37	41/39/36.5	39/36/34.5	41/38/36	41/39/35.5		
Operation range	Around unit			°CDB			0°C~40°CDB,	30% RH or less				
	Supply air			°CDB			-15°C~40°CDB,	80% RH or less				
	Return air			°CDB			0°C~40°CDB,	80% RH or less				
	On coil temperature	Cooling/Max	k./Heating/Min.	°CDB		-15/43			-15/43			
Refrigerant	Control						Electronic ex	pansion valve				
	Туре			R-410A								
	GWP						2,0	87.5				
Connection duct dia	meter			mm	200	2:	50	200	2	50		
Piping connections	Liquid	OD		mm			6.	35				
-	Gas	OD		mm			12	2.7				
Water supply mn					- 6.4							
	Drain						PT3/4 exte	rnal thread				
Power supply	Phase/Frequency	/Voltage		Hz/V			1~/50/2	220-240				
Current	Maximum fuca ar	(NAFA)		Λ.								

Contains fluorinated greenhouse gases

Maximum fuse amps (MFA)

Current

# Daikin's

# air handling units solutions

You will find your match

# Why choose Daikin air handling units with a DX connection?



# Simplifying business

The unique total solution approach by Daikin helps businesses to propose better cross-pillar solutions, to increase their success ratio by providing unmatchable product combinations to the end-user and to simplify the life of installers by supplying high-quality products coming from the same manufacturer. Contrary to other manufacturers, Daikin does not use OEM products in its AHU with DX offer. Many competitors are either offering OEM DX outdoor units or OEM AHU which create additional problems when warranties or faults arise. **Having a single interface for your business makes Daikin the right choice.** 

#### One-stop shop

Daikin is the only global manufacturer in the market **capable of offering a true Plug & Play solution** where Daikin AHUs manufactured by Daikin Applied Europe and certified by Eurovent, offer off-the-shelf compatibility with Daikin's unique VRV outdoor unit range for the best performance in the market. This unique integration of cross-pillar products under the same umbrella, gives the customer both peace-of-mind and added value when promoting a total solution approach.

# Complete range of possibilities

Thanks to the **most complete offer in the market**, Daikin has the solution for all types of commercial applications requiring fresh air. Daikin provides ventilation solutions based on AHU from 2,500 m³/h up to 140,000 m³/h either with natural heat recovery or more advanced ventilation solutions where a VRV outdoor unit can be connected to the Daikin AHU for ultimate climate control. The harmonized control, between the VRV outdoor unit and the AHU, offer outstanding reliable operation of the system when connected to an iTM.

# Advantages

- Unique manufacturer offering
   a complete range
- > Plug & Play solution
- Direct iTM compatibility

# Why use VRV and ERQ condensing units for connection to air handling units?

# **High Efficiency**

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a high efficiency heat pump system lower the carbon footprint of the building.



# Fast response to changing loads resulting in high comfort levels

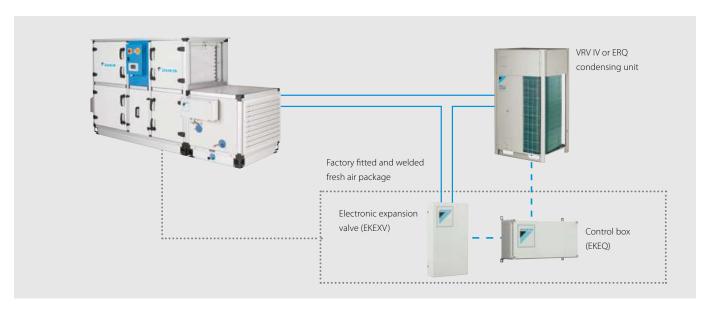
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

# Easy Design and Installation

The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc. are required. This also reduces both the total system investment and running cost.

#### Daikin Fresh air package

- $\rightarrow$  Plug & Play connection between VRV/ERQ and the entire D-AHU modular range.
- > Factory fitted and welded DX coil control and expansion valve kits.



# In order to maximise installation flexibility, 4 types of control systems are offered

**W** control: Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller, easy to setup

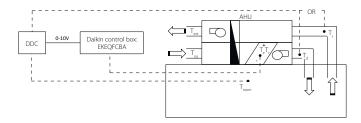
**X control:** Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

Z control: Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)
Y control: Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)

# 1. W control $(T_d/T_s/T_{room}$ control):

# Air temperature control via DDC controller

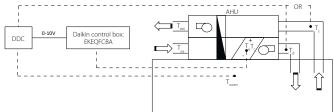
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA). This voltage modulates the capacity requirements of the outdoor unit.



# 2. X control ( $T_d/T_s/T_{room}$ control):

# Precise air temperature control via DDC controller

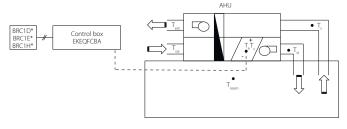
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin control box (EKEQFCBA). This reference voltage will be used as the main input value for the compressor frequency control.



# 3. Y control (T<sub>a</sub>/T<sub>c</sub> control):

#### By fixed evaporating /condensing temperature

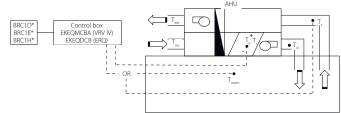
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1\* - optional) have to be connected for initial set-up but not required for operation.



# 4. $Z control T_d / T_{room} control$ ): Control your AHU just like a VRV indoor unit

# Control your AHU just like a VRV indoor unit (100% recirculation air application)

Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1\* for operation. The only control that allows the combination of other indoor units to the AHU at the same time.



$T_d$ = Discharge (supply) air temperatu	re
T <sub>ext</sub> = Extraction air temperature	

 $T_s$  = Suction (return) air temperature T = Evaporating temperature T<sub>oa</sub> = Outdoor air temperature T<sub>c</sub> = Condensing temperature T<sub>room</sub> = Room air temperature

	Option kit	Features
Possibility W		Off-the-shelf DDC controller that requires no pre-configuration
Possibility X	EKEQFCBA	Pre-configured DDC controller required
Possibility Y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility Z	EKEQDCB	Using Daikin infrared remote control BRC1*
POSSIBILITY Z	EKFQMCBA*	Temperature control using air suction temperature or room temperature (via remote sensor)

<sup>\*</sup> EKEQMCB (for 'multi' application)

# **JRV** - for larger capacities (from 8 to 54HP)

# An advanced solution for both pair and multi application

- > Inverter controlled units
- > Heat pump
- Heat recovery only for mix application with indoor units without hydrobox. For 100% recirculation AHUs only used as a VRV indoor unit.
- > R-410A
- > Control of room temperature via Daikin control
- > Large range of expansion valve kits available

- BRC1H\* is used to set the set point temperature (connected to the EKEQMCBA).
- Connectable to all VRV heat recovery and heat pump systems (VRV H/R and VRV-i only connectable with Z control)

# Pair application

# **One** ERQ or VRV IV **heat pump** (system) connected to **one** AHU through **one** refrigerant **circuit**

- > with W, X, Y and Z control
- > not allowed for VRV H/R



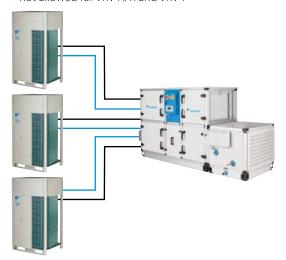
# One VRV IV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits

- > with W, X and Y control
- > not allowed for VRV H/R and VRV-i



# **Several** ERQ or VRV IV **heat pumps** connected to the **interlaced coil** of one AHU through **several** refrigerant **circuits**

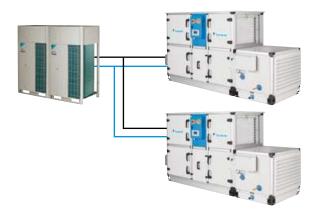
- > with W, X and Y control
- > not allowed for VRV H/R and VRV-i



# Multi application

# One VRV IV heat pump connected to several AHUs

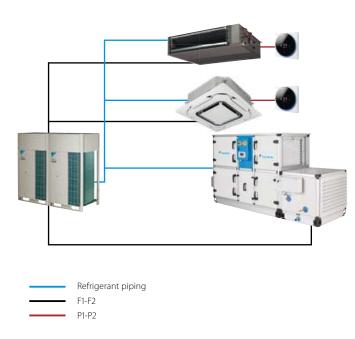
- > with Z control
- > not allowed for VRV H/R
- > no interlaced coil possible



# Mix application

VRV indoor units and AHU(s) mixed in the same VRV IV heat pump or heat recovery system

- > with Z control
- > no interlaced coil possible
- > hydrobox not possible



For more information on the limitations applying on all the above application types, please refer to the relevant databooks of EKEXV and EKEQ with guidelines and other information on the selection process.

# ERQ - for smaller capacities (from 100 to 250 class)

# A basic fresh air solution for pair application

- > Inverter controlled units
- > Heat pump
- > R-410A
- > Wide range of expansion valve kits available
- > Perfect for the Daikin Modular air handling unit

The "Daikin Fresh Air Package" provides a complete Plug & Play Solution including AHU, ERQ or VRV Condensing Unit and all unit control (EKEQ, EKEX, DDC controller) factory mounted and configured. The easiest solution with only one point of contact.



125AV1

3N~/50/400

140AV1

# **Click** or **scan** the code to access all technical information

Ventilation



Phase/Frequency/Voltage

Maximum fuse amps (MFA)

Power supply Current



ERQ

Hz/V



Capacity range			HP	4	5	6
Cooling capacity	Nom.		kW	11.2	14.0	15.5
Heating capacity	Nom.		kW	12.5	16.0	18.0
Power input	Cooling	Nom.	kW	2.81	3.51	4.53
•	Heating	Nom.	kW	2.74	3.86	4.57
EER				3.9	99	3.42
COP				4.56	4.15	3.94
Dimensions	Unit	HeightxWidthxDepth	mm		1.345x900x320	
Weight	Unit		kg		120	
Casing	Material				Painted galvanized steel plate	
Fan-Air flow rate	Cooling	Nom.	m³/min		106	
	Heating	Nom.	m³/min	102	10	5
Sound power level		Nom.	dBA	66	67	69
Sound pressure	Cooling	Nom.	dBA	50	51	53
level	Heating	Nom.	dBA	52	53	55
Operation range	Cooling	Min./Max.	°CDB	32	-5/46	
Operation range	Heating	Min./Max.	°CWB		-20/15.5	
		Heating/Min./Cooling/Max.	°CDB		10/35	
Dofrigorant		rieating/wiii./Cooling/wax.	CDB		R-410A	
Refrigerant	Type		l.e.		4.0	
	Charge		kg		8.4	
	CIMP		TCO₂eq			
	GWP				2,087.5	
n	Control	0.0			Expansion valve (electronic type)	
Piping connections		OD	mm		9.52	
	Gas	OD	mm	15	5.9	19.1
	Drain	OD	mm		26x3	
Power supply	Phase/Frequency		Hz/V		1N~/50/220-240	
Current	Maximum fuse a	mps (MFA)	A		32.0	
Ventilation			ERQ	125AW1	200AW1	250AW1
Capacity range			HP	5	8	10
Cooling capacity	Nom.		kW	14.0	22.4	28.0
Heating capacity	Nom.		kW	16.0	25.0	31.5
Power input	Cooling	Nom.	kW	3.52	5.22	7.42
•	Heating	Nom.	kW	4.00	5.56	7.70
EER				3.98	4.29	3.77
COP				4.00	4.50	4.09
Dimensions	Unit	HeightxWidthxDepth	mm	1,680x635x765	1,680x9	30x765
Weight	Unit		kg	159	187	240
Casing	Material				Painted galvanized steel plate	-
Fan-Air flow rate	Cooling	Nom.	m³/min	95	171	185
	Heating	Nom.	m³/min	95	171	185
Sound power level			dBA	72	78	
Sound pressure level			dBA	54	57	58
Operation range	Cooling	Min./Max.	°CDB	<u> </u>	-5/43	30
operation range	Heating	Min./Max.	°CWB		-20/15	
		Heating/Min./Cooling/Max.	°CDB		10/35	
Refrigerant	Type	ricating/mini./cooling/iviax.	CDD		R-410A	
nemyerant			ka	6.2	7.7	8.4
	Charge		kg		16.1	
			TCO₂eq	12.9	10.1	17.5
	CMD				2.007.5	
	GWP				2,087.5	
	Control	00			Electronic expansion valve	
Piping connections	Control	OD OD	mm mm	15.9	·	22.2

100AV1

# Integration of ERQ and VRV in third party air handling units

# a wide range of expansion valve kits and control boxes

#### Combination table

			Control box	1					Expansio	n valve kit					Missad annua saisan soiale
		EKEQDCB	EKEQFCBA	EKEQMCBA	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	Mixed connection with
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	VRV indoor units
	ERQ100	P (1)	Р	-	-	Р	Р	Р	Р	-	-	-	-	-	
1-phase	ERQ125	P (1)	P	-	-	Р	Р	Р	Р	Р	-	-	-	-	
	ERQ140	P (1)	Р	-	-	-	Р	Р	Р	Р	-	-	-	-	Nat a sasible
	ERQ125	P (1)	Р	-	-	Р	Р	Р	Р	Р	-	-	-	-	Not possible
3-phase	ERQ200	P (1)	Р	-	-	-	-	Р	Р	Р	Р	P	-	-	
	ERQ250	P (1)	Р	-	-	-	-	-	Р	Р	Р	Р	-	-	
VRV IV VRV I amb VRV IV	V H/P C-series V high Dient W-series S-series	-	Р						P (1) / n2 (1)	)					Possible (not mandatory)
VRV IV	i-series	-	-												
VRV I	V H/R	-	-		n1									Mandatory (no hydrobox)	

- P (pair application) One or more outdoor units connected to an (interlaced) coil of one AHU. To determine exact configuration please refer to the engineering data book.
   n1 (only mix application) Combination of (multiple) AHU(s) and VRV DX indoor(s) is mandatory. To determine the exact configuration please refer to the engineering data book.
   n2 (mix or multi application) Combination of (multiple) AHU(s) with five application) view for yill operation (and the proposition of please) refer to the engineering data book.
   Control box EKEQFA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units or hydroboxes
- (1) No interlaced coil possible with Z control

# Capacity table

#### Cooling

EKEXV Class		ed heat exch capacity (kW	Allowed heat exchanger volume (dm³)			
	Minimum	Standard	Maximum	Minimum	Maximum	
50	5.0	5.6	6.2	1.33	1.65	
63	6.3	7.1	7.8	1.66	2.08	
80	7.9	9.0	9.9	2.09	2.64	
100	10.0	11.2	12.3	2.65	3.30	
125	12.4	14.0	15.4	3.31	4.12	
140	15.5	16.0	17.6	4.13	4.62	
200	17.7	22.4	24.6	4.63	6.60	
250	24.7	28.0	30.8	6.61	8.25	
400	35.4	45.0	49.5	9.26	13.2	
500	49.6	56.0	61.6	13.2	16.5	

Saturated evaporating temperature: 6°C Air temperature: 27°C DB / 19°C WB

#### Heating

EKEXV Class		ed heat exch capacity (kW	•		it exchanger e (dm³)
	Minimum	Standard	Maximum	Minimum	Maximum
50	5.6	6.3	7.0	1.33	1.65
63	7.1	8.0	8.8	1.66	2.08
80	8.9	10.0	11.1	2.09	2.64
100	11.2	12.5	13.8	2.65	3.30
125	13.9	16.0	17.3	3.31	4.12
140	17.4	18.0	19.8	4.13	4.62
200	19.9	25.0	27.7	4.63	6.60
250	27.8	31.5	34.7	6.61	8.25
400	39.8	50.0 55		9.26	13.2
500	55.1	63.0	69.3	13.2	16.5

Saturated condensing temperature: 46°C Air temperature: 20°C DB

> Click or scan the code to access all technical information





# EKEXV - Expansion valve kit for air handling applications

Ventilation	n EKEXV 50 63 80 100 125 140 200										0	250	)	400		500			
Dimensions	Unit		mm								401x	215x78							
Weight	Unit		kg	2.9															
Sound pressure leve	el Nom.		dBA																
Operation range	On coil	Heating Min.	°CDB								10	(1)							
	temperatur	e Cooling Max.	°CDB								35	5 (2)							
Refrigerant	Type / GWP	)									R-410A	/ 2.087,5							
Piping connection	s Liquid	OD	mm	6.35 9.52 12.7 15.9										15.9					

(1) The temperature of the air entering the coil in heating mode can be reduced to -5°CDB. Contact your local dealer for more information. (2) 45% Relative humidity.

Click or scan the code to access all technical information







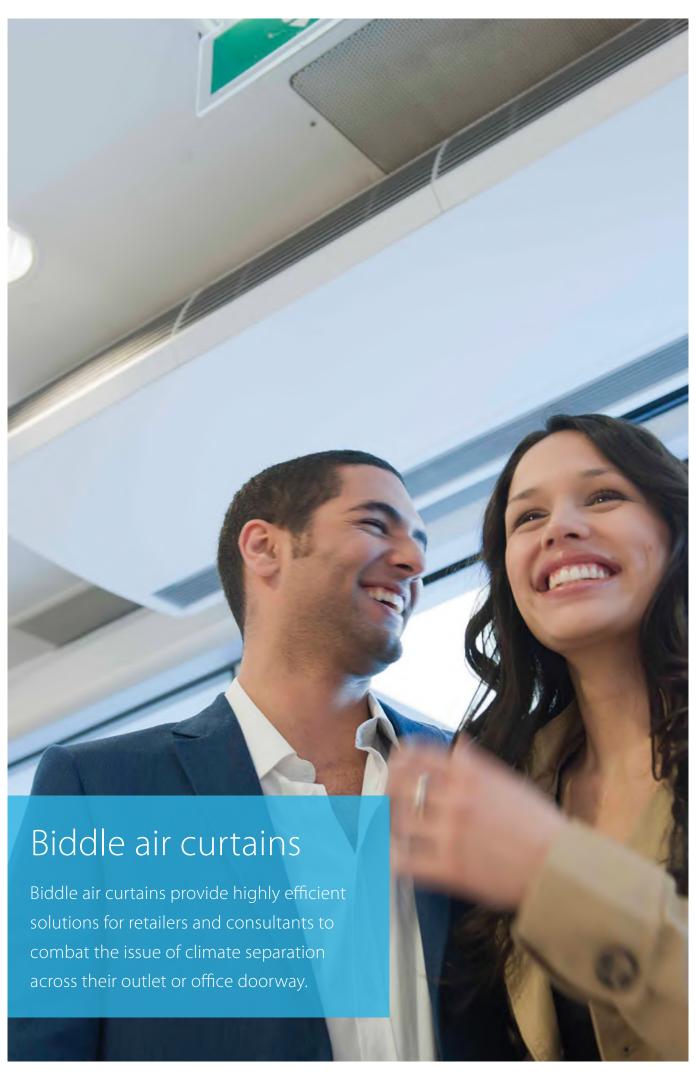
# EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	МСВА
Application			Pair	Pair	Pair/Multi/Mix
Outdoor unit			ERQ / VRV	ERQ	VRV
Dimensions	Unit	mm		132x400x200	
Weight	Unit	kg	3.9	3	.6
Power supply	Phase/Frequency/Voltage	Hz/V		1~/50/230	

The combination of EKEQFCBA and ERQ is in pair application. The EKEQFCBA can be connected to some type of VRV IV outdoor units with a maximum of 3 control boxes. The combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor unit for details.

For more information refer to the **EKEXV** or **EKEQ** databooks, via the QR codes above





# Biddle air curtains connected to Daikin Heat Pumps

# 'Open Door' Trading

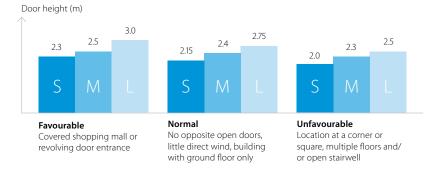
Although the customer-friendly aspects of open door trading are widely appreciated by retail and commercial outlet managers, open doors can also give rise to massive losses in conditioned warm or cold air and hence, energy. Biddle air curtains however, not only preserve indoor temperatures and generate significant savings, they also represent an invitation for customers, to enter a pleasant trading and working environment.

# High efficiency and low CO<sub>2</sub> emission

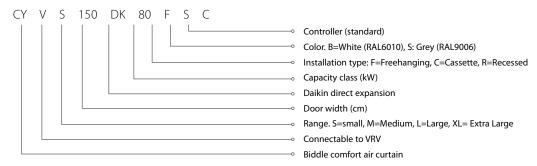
An efficient outdoor/indoor climate separation limits heat loss through the door opening and enhances the efficiency of the air conditioning system.

Combining Biddle air curtains with Daikin heat pumps can lead to savings up to 72% compared to electric air curtains and a paypack period of less than 1.5 years!

# Air curtain size selector



# Biddle comfort air curtian nomenclature



# Portfolio

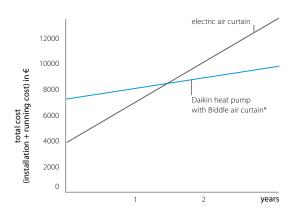
Туре	Product name	
Biddle air curtain free hanging	CYV S/M/L-DK-F	
Biddle air curtain cassette	CYV S/M/L-DK-C	
Biddle air curtain recessed	CYV S/M/L-DK-R	- Color

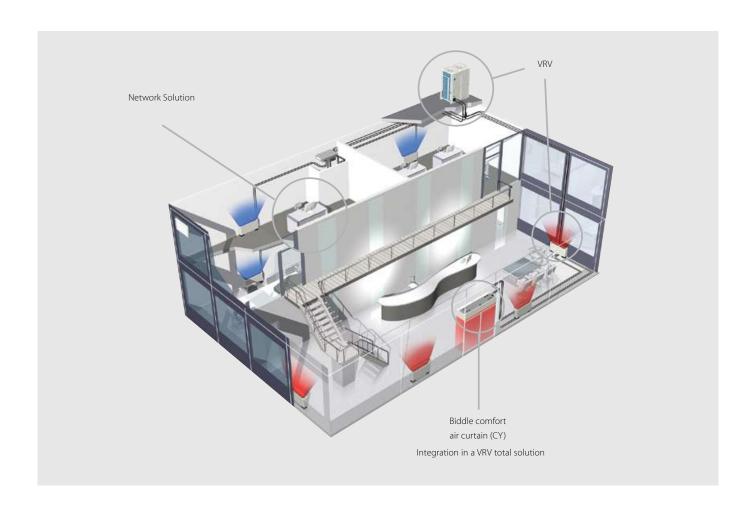
- A payback time of less than 1.5 years compared to electrical air curtains
- > Easy and quick installation
- Maximum energy efficiency thanks to rectifier technology
- > 85% air separation efficiency
- > Cassette model (C): mounted into a false ceiling enhancing aesthetics
- > Free-hanging model (F): easy wall mounted installation
- > Recessed model (R): neatly concealed in the ceiling

# Biddle air curtain for VRV

- > Connectable to VRV heat recovery and heat pump
- > VRV is among the first DX systems suitable for connection to air curtains
- > Free-hanging model (F): easy wall mounted installation
- > Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- > Recessed model (R): neatly concealed in the ceiling
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode (in case of VRV heat recovery)
- Easy and quick to install at reduced costs since no additional water sytems, boilers and gas connections are required
- > PATENTED TECHNOLOGY: Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity

# Packtime of less than 1.5 years





<sup>\*</sup> Payback period and gains calculated based upon the following: Air curtain is 9hrs/day – 156 days year (1,404 hrs/year) in use. Annual energy consumption for an electric air curtain: 3,137EUR (COP = 0.95). Typical installation cost: 1,000EUR; Typical equipment cost: 2,793EUR. Annual energy consumption for CYQS200DK100FBN and ERQ100AV: 748EUR (COP 4.00). Typical installation cost: 2,000EUR; Typical equipment cost: 5,150EUR. Calculation based upon electricity cost: 0,1705EUR /kWh



# **Click** or **scan** the code to access all technical information





				Small Medium											
				CYVS100DK80	CYVS150DK80	CYVS200DK100	CYVS250DK140	CYVM100DK80	CYVM150DK80	CYVM200DK100	CYVM250DK140				
				*BC/*SC	*BC/*SC	*BC/*SC	*BC/*SC	*BC/*SC	*BC/*SC	*BC/*SC	*BC/*SC				
Heating capacity	Speed 3		kW	7.40	9.0	11.6	16.2	9.2	11.0	13.4	19.9				
Power input	Fan only	Nom.	kW	0.23	0.35	0.46	0.58	0.37	0.56	0.75	0.94				
	Heating	Nom.	kW	0.23	0.35	0.46	0.58	0.37	0.56	0.75	0.94				
Delta T	Speed 3		K	19	1	5	16	17	14	13	15				
Casing	Colour					ı	BN: RAL9010	SN: RAL9006	5						
Dimensions	Unit	Height F/C/R	mm				270/2	70/270							
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548				
		Depth F/C/R	mm				590/8	21/561							
Required ceiling vo	id >		mm				42	20							
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)				
Door width	Max.		m	1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5				
Weight	Unit		kg	56	66	83	107	57	73	94	108				
Fan-Air flow rate	Heating	Speed 3	m³/h	1,164	1,746	2,328	2,910	1,605	2,408	3,210	4,013				
Sound pressure level	Heating	Speed 3	dBA	47	49	50	51	50	51	53	54				
Refrigerant	Type / GWP						R-410A	/ 2,087.5							
Piping connections	Liquid/OD/Gas/	OD	mm		9.52/16.0		9.52/19.0		9.52/16.0		9.52/19.0				
Required accessorie	es (should be ord	ered separately)			Daikin wire	ed remote co	ntrol (BRC1H5	51(9)W/S/K / B	RC1E53A/B/C	/ BRC1D52)					
Power supply	Voltage		٧				2:	30							

					Lai	rge						
				CYVL100DK125*BC/*SC	CYVL150DK200*BC/*SC	CYVL200DK250*BC/*SC	CYVL250DK250*BC/*SC					
Heating capacity	Speed 3		kW	15.6	23.3	29.4	31.1					
Power input	Fan only	Nom.	kW	0.75	1.13	1.50	1.88					
	Heating	Nom.	kW	0.75	1.13	1.50	1.88					
Delta T	Speed 3		K	1:	5	14	12					
Casing	Colour				BN: RAL9010 /	'SN: RAL9006						
Dimensions	Unit	Height F/C/R	mm		370/37	70/370						
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548					
		Depth F/C/R	mm		774/1,1	05/745						
Required ceiling vo	oid >		mm		52	20						
Door height	Max.		m	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)					
Door width	Max.		m	1.0	1.5	2.0	2.5					
Weight	Unit		kg	76	100	126	157					
Fan-Air flow rate	Heating	Speed 3	m³/h	3,100	4,650	6,200	7,750					
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57					
Refrigerant	Type / GWP				R-410A	/ 2,087.5						
Piping connections	Liquid/OD/Ga	s/OD	mm	9.52/16.0 9.52/19.0 9.52/22.0								
Required accessori	es (should be o	51(9)W/S/K / BRC1E53A/B/C	/ BRC1D52)									
Power supply	Voltage		V		23	30						

<sup>(1)</sup> Favorable conditions: covered shopping mall or revolving door entrance (2) Normal conditions: little direct wind, no opposite open doors, building with ground floor only (3) Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway





If you are a user or installer it is important you can **interact with our systems** in the easiest way, from **anywhere you are**. For any user our interfaces create **peace of mind** that their system is running in the best possible way.

Depending on the type of user and application Daikin develops controls and cloud services to ensure the best experience.

- > For home owners it means **app and voice control** of their home comfort.
- > For hotel owners it means easy and stylish **personal control for guests**, with an integration in hotel booking software for central control
- For technical managers it means cloud access to all sites, with the possibility to benchmark, optimize performance
- For installers it means easy transfer of settings during commissioning, remote retrieval of errors and preventive alerts to save time on maintenance or interventions

Our controls enable you to **connect with your customer**, save time, improve your comfort intelligently and reduce energy bills.



# Remote monitoring



# Control Systems



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# Control solutions summary

# Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

- > Basic control solutions for those customers with few requirements and limited budget
- > Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
- Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

Shop		Unit control		Ir	ntegrating con	trol	Advanc	ed control
	Ó	21			Zamo dia		intelligent Controller	fmt Manager
T <del>T</del>	BRP069*	BRC1H52W/S/K	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•	•	•	•	•	•
Limit control possibilities for shop staff	•	•	•	•	•	•	•	•
Create zones within the shop			•				•	•
Interlock with eg. Alarm, PIR sensor			•				(limited)	•
Integration into smart home systems	• (7)							
Integrate Daikin units into existing BMS via Modbus				•		•		
Integrate Daikin units into existing BMS via KNX					•			
Integrate Daikin units into existing BMS via HTTP								•
Monitor energy consumption	• (4)	• (4)					• (2)	•
Advanced energy management							• (2)	• (6)
Allows free cooling								•
Voice control	• (6)							
Integrate Daikin products cross pillars into Daikin BMS								•
Integrate third party products into Daikin BMS							•	•
Online control	•						• (2)	• (3)
Manage multiple sites							• (2)	• (3)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via Daikin cloud service (3) Through own IT set-up (not Daikin cloud server) (4) Not available on all indoors (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) Only for BRP069C51, connection to Google Assistant and Amazon Alexa; (7) only for BRP069C51, contact your local sales representative for an overview of available services.

Hotel	Unit control	Integratin	ig control	Advance	d control
			Zame of the control o	PMS Interface	football Manager
	BRC1H52W/S/K	RTD-HO	KLIC-DI	DCM010A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 interface for up to 2,500 indoor units	1 iTM for 64 indoor unit(s) (groups) (1)
Hotel guest can control & monitor basic functionalities from his room	•	•	• (3)		•
Limit control possibilities for hotel guests	•	•	•	•	•
Interlock with window contact	• (2)	•			•
Interlock with key-card	• (2)	•			•
Integrate Daikin units into existing BMS via Modbus		•			
Integrate Daikin units into existing BMS via KNX			•		
Integrate Daikin units into existing BMS via HTTP					•
Integrate Daikin unit control in hotel booking software				Oracle Opera PMS	
Monitor energy consumption					•
Advanced energy management					•
Integrate Daikin products cross pillars into Daikin BMS					•
Integrate third party products into Daikin BMS					•
Online control					•

(1) 7 iTM plus adapters (DCM601A52) can be added to have \$12 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter (3) requires KNX compatible controller

Office	Unit control		Integrating control		Advance	d control
	-21		LonWorks	BACnet	1212	
			Interface	Interface	Intelligent Controller	fmettgaf Manager
	BRC1H52W/S/K	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 out- doors (2)	1 unit for 32 indoor unit(s) (groups) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•	•	•	•
Centralised control for management		•	•	•	•	•
Local control for office staff	•				• (4)	through Web Remote management
Limit control possibilities for office staff	•	•	•	•	•	•
Integrate Daikin units into existing BMS via Modbus		•				
Integrate Daikin units into existing BMS via HTTP						•
Integrate Daikin units into existing BMS via LonTalk			•			
Integrate Daikin units into existing BMS via BACnet				•		
Energy consumption read out	• (3)					
Monitor energy consumption					• (4)	•
Advanced energy management					• (4)	•
PPD software to distribute used kWh/indoor unit				• (6)		• (7)
Integrate Daikin cross pillar products into Daikin BMS						•
Integrate third party products into Daikin BMS					•	•
Online control					• (4)	•
Manage multiple sites					• (4)	• (5)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) extension (DAM411B51) needed to have up to 256 indoor unit(s) (groups), 40 outdoors (3) Not available on all indoor units (4) Via Daikin cloud service (5) Through own IT set-up (not Daikin cloud sever) (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) via DAM412B51 option (7) via DCM002A51 option

Infrastructure cooling	Unit	Integrating	Advanced
	21		foots of Manager
	BRC1H52W/S/K	RTD-10	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•
Back-up operation	•	•	•
Duty rotation	•	•	•
Limit control possibilities in the technical cooling room	•	•	•
If room temperature above max., then show alarm & start standby unit.		•	•
If an error occurs, an alarm will be shown.	•	•	•
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	•	Via WAGO I/O

<sup>(1) 7</sup> iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG\*/RZAG\* outdoor units. (3) See option list of indoor unit



The Daikin online controller App is for those who live their life on the go and who want to manage their heating and cooling system from their smartphone.



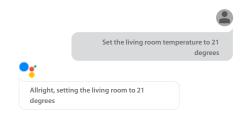
# **NEW**

# Voice control

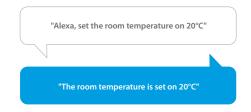
To provide users with even more comfort and ease, the Daikin online controller App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.





Example of using the voice control via Google Assistant



Example of using the voice control via Amazon Alexa







# Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- Schedule room temperature and operation mode



# Control

Customise the system to fit your lifestyle and year-round comfort levels.

- Easily change the indoor unit's main functions
- Control multiple units at once via zone control

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.





# Scan the QR code to download the app now





# Daikin Online Controller connectable units

BRP069C51 \*

# **VRV 5 indoor units**

- > FXFA-A
- > FXZA-A
- > FXDA-A
- > FXSA-A
- > FXAA-A
- \* Must be combined with BRC1H52W/S/K

# Madoka wired remote controller

# Madoka

The beauty of simplicity.



RAL 9006 (metallic)



RAL 9005 (matte) BRC1H52K



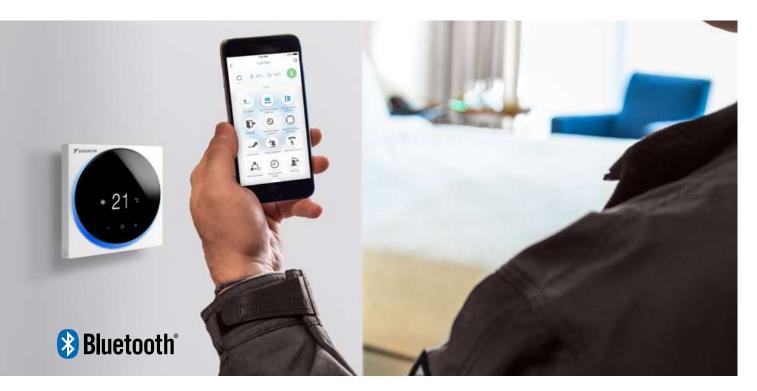
# User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- Sleek and elegant design
- Intuitive touch-button control
- Three display options: standard, detailed and **new symbolic view**
- Three colours to match any interior
- Compact, measures only 85 x 85 mm
- Advanced settings **copy function** and commissioning via smartphone







# Madoka Assistant







# Simplifies the advanced settings such as schedule or set point limitation

- ✓ Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- ✓ Easy and quick commissioning
- Featuring Bluetooth® low energy technology

# Easy setting of schedules



# Advanced user settings



**NEW** 

# Bluetooth strength indication



# Field settings



# BRC1H519W7 / BRC1H519S7 / BRC1H519K7

# Madoka wired remote controller for Sky Air and VRV









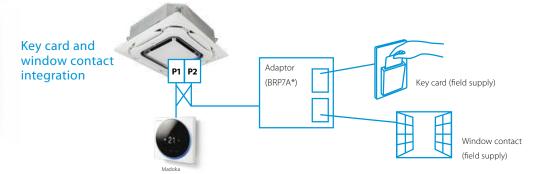


# A complete redesigned controller focussed to enhance user experience

- > Sleek and elegant design
- > Intuitive touch-button control
- > Three display options: standard, detailed and new symbolic view
- > Direct access to basic functions (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset, error & code)
- > Three colours to match any interior
- > Compact, measures only 85 x 85 mm
- > Real time clock with auto update to daylight saving time

# Hotel application features

- > Energy saving through key card, window contact integration and set point limitation (BRP7A\*)
- > Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort





# Madoka Assistant: Advanced settings can be easily done via your smartphone

# A range of energy-saving functions that can be selected individually

- > Temperature range restriction: Save on energy by setting the low temperature limit in cooling mode and the high temperature limit in heating mode (1)
- > Setback function
- > Adjustable presence detector and floor sensor (available on the Round Flow and Fully Flat
- > Automatic temperature reset
- > Auto off timer

#### Kilowatt-hour consumption tracking (2)

The kWh indicator displays indicative power consumption for the last day/month/year.

#### Other functions

- > NEW Three user access levels: Basic user, Advanced and Installer to match user requirements and prevent improper use.
- > Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- > NEW Mark frequently used menu's as favourites for
- > Up to three independent schedules can be programmed, allowing you to switch easily between them throughout the year (e.g. summer/winter/ mid-season)
- > Menu settings can be individually locked or restricted
- > The outdoor unit can be set to quiet mode and power consumption limit control by schedule (3)
- > Real-time clock that updates automatically for daylight saving



# Cost-effective solution for infrastructure cooling applications

After a certain period of time, the operating unit will go into standby and the standby unit will take over, extending the system lifetime. Rotation interval can be set for 6, 12, 24, 72 or 96 hours, as well as weekly.

(1) Also available in auto cooling/heating changeover mode (2) For Sky Air FBA, FCAG and FCAHG pair combinations only (3) Only available on RZAG\*, RZASG\*, RZQG\*, RZQSG\*

#### BRC1E53A/B/C

# User friendly remote control for Sky Air and VRV



Graphical display of indicative electricity consumption (Function available in combination with FBA-A, FCAG and FCAHG)

# A series of energy saving functions that can be individually selected

- > Demand control (1)
- > Temperature range limit
- > Setback function
- > Presence & floor sensor connection (available on round flow and fully flat cassette)
- > kWh indication (2)
- > Set temperature auto reset

cooling applications

- > Off timer

Cost-effective solution for infrastructure

#### Other functions

- > Up to 3 independent schedules
- > Possibility to individually restrict menu functions
- > Choice of display between symbol or text
- > Real time clock with auto update to daylight saving time
- > Built-in backup power for clock (up to 48 hours). Settings are always kept in case of power loss.
- > Supports multiple languages: BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portuguese BRC1E53B: English, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian BRC1E53C: English, Greek, Russian, Turkish, Polish, Slovak, Albanian

(1) Only available on RZAG\*, RZASG\*, RZQG\*, RZQSG\* I (2) For Sky Air FBA, FCAG and FCAHG pair combinations only

#### BRC1D52

# Wired remote control for Sky Air and VRV



BRC1D52

- > Schedule timer: Five day actions can be set
- > Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- > User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- > Immediate display of fault location and condition
- > Reduction of maintenance time and costs

# ARC4\*/BRC4\*/BRC7\*

# Infrared remote control



ARC466A1

BRC4\*/BRC7\*

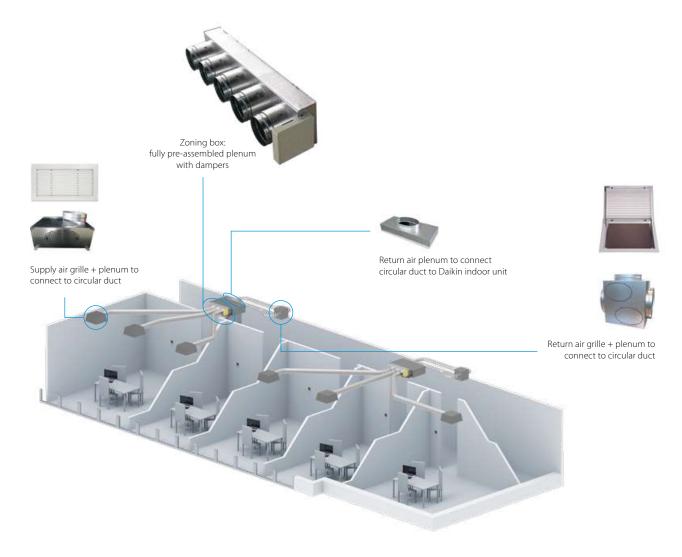
Operation buttons: ON/OFF, timer mode start/stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/test

Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection / test operation (2)

- 1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXM, FBA
- 2. For FX\*\* units only
- 3. For all features of the remote control, refer to the operation manual

# Multi-zone controller

The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones connected to one indoor unit via a centralised thermostat located in the main room and individual thermostats for each of the zones.



# Compatibility

					Sky/Air										<i>YRY</i>																					
					FDX	M-F	9				A-A				Α	DEA	-A			F)	XDQ	-A3								Г	FXSC	)-A				
Numbe motorised damp		Reference	Dimensions H x W x D (mm)	25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	15	20	25	32	40	50	63	71	80	100	125	140
	2	AZEZ6DAIST07XS2	300 x 930 x 454															Ш							•	•	•	•								
	2	AZEZ6DAIST07S2	300 X 930 X 454					•	•																				•	•						
		AZEZ6DAIST07XS3																							•	•	•	•								
	3	AZEZ6DAIST07S3	300 x 930 x 454					•	•									П											•	•						
		AZEZ6DAIST07S4	300 x 930 x 454					•	•																				•	•						
Constant Calling	4	AZEZ6DAIST07M4	300 x 1,140 x 454							•	•				•																•		•			
Standard Ceiling Void		AZEZ6DAIST07M5								•	•				•															П	•		•			
	5	AZEZ6DAIST07L5	300 x 1,425 x 454									•	•	•		•	•																	•	•	
440		AZEZ6DAIST07M6								•	•				•			П												П	•		•			
A. C. C.	6	AZEZ6DAIST07L6	300 x 1,638 x 454									•	•	•		•	•	П												П				•	•	
		AZEZ6DAIST07L7										•	•	•		•	•																	•	•	
	7	AZEZ6DAIST07XL7	515 x 1,425 x 454													П		П												П						•
		AZEZ6DAIST07L8										•	•	•		•	•													П				•	•	
	8	AZEZ6DAIST07XL8	515 x 1,425 x 454																																	•
Compact Ceiling	2	AZEZ6DAISL01S2	210 x 720 x 444	•	•													•	•	•	•									П						
Void	3	AZEZ6DAISL01S3	210 x 720 x 444	•	•													•	•	•	•															
Carro	4	AZEZ6DAISL01M4	210 x 930 x 444																			•	•							П						
- Charles	5	AZEZ6DAISL01L5	210 x 1,140 x 444			•	•																	•												

# Controls

# 3 controller versions are available to choose from: Colour, touch or simplified



AZCE6BLUEFACECB

# Blueface - main thermostat

> Intuitive graphical, colour touch screen for controlling multiple zones



AZCE6THINKCB (Wired) AZCE6THINKRB (Wireless)

#### Think - zone thermostat

> Graphic touch button with low-energy e-ink screen for controlling single zones



AZCE6LITECB (Wired) AZCE6LITERB (Wireless)

#### Lite - zone thermostat

> Simplified thermostat with touch buttons for temperature control

> Optional bus cable (2 x 0.5 mm<sup>2</sup> | 2 x 0.22 mm<sup>2</sup>), 15m length: AZX6CABLEBUS15, 100m length: AZX6CABLEBUS100



NEW AZX6WSC5GER (Ethernet + WIFI)

# Webserver for remote control

- > Cloud based remote control of multizoning kit(s)
- > Configruation and control of zones (temperature, operation mode, ...)
- > Access via webportal, or Android/IOS application
- > Dual DIN rail case: AZX6WSC5GDINCR



AZX6BACNET



AZX6KNXGTWAY

#### **BACnet and KNX gateway**

- > Allows ON/OFF control of each zone
- > Control of temperature for each zone
- > Status indication of operation mode
- > One gateway needed per system
- > BACnet gateway: AZX6BACNET
- > KNX gateway: AZX6KNXGTWAY

# Grilles and plenums

# Supply air grilles and plenums



RDHV040015BKX

# Wall type supply grille

> With horizontal and vertical adjustable flaps



RREROSO050BTX

# Return air grilles and plenums

# Return air grille with integrated filter

> Filters particles from the air



RI OV040015BKX

#### Ceiling type supply grille

- > With horizontal flaps angled at 15°
- > Vertical flaps can be adjusted manually



Plenum for return grille

- > To connect 1 up to 4 circular ducts to the return air grille
- > Diameter 250mm



# Plenum for supply grille

- > To connect circular ducts to discharge grille
- > Insulated, galvanised steel
- > Diameter 250mm

AZCEZDAPR07\*

#### Plenum for return air

- > To connect 1 up to 4 circular ducts to the Daikin concealed ceiling units
- > Diameter 250mm
- > Different sizes (XS, S, M, L, XL) to fit the indoor unit

#### DCC601A51



# Advanced centralised controller with Cloud connection

- > Intuitive and user-friendly interface
- Flexible concept for stand alone
   and multi site applications
- Total solution thanks to
   integration of 3rd party equipment
- Monitor & control your small commercial building, no matter where you are

#### 2 solutions:

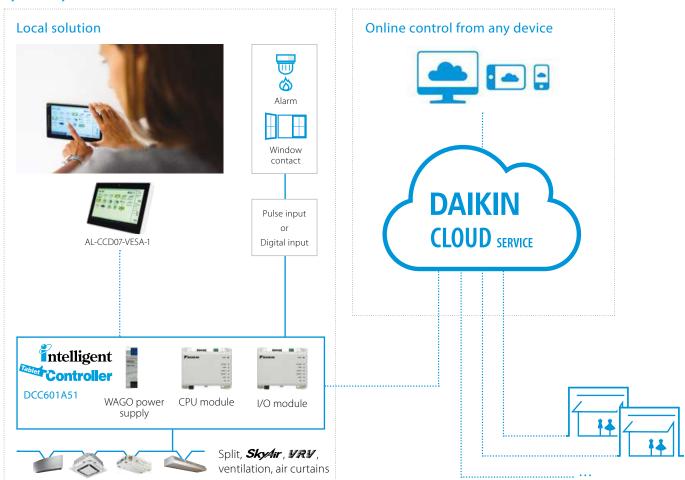
# **Local solution**

- > Offline centralised control
- > Stylish optional screen fits any interior

#### **Cloud solution**

- > Flexible online control from any device (Laptop, tablet...)
- > Monitor & control one or multiple sites
- > Benchmark the energy consumption of different installations (1)
- > Energy consumption follow-up to comply with local regulations

# System layout



#### **Total solution**

- Total solution thanks to a large integration of Daikin products and 3rd party equipment
- > Connect a wide range of units (Split, Sky Air, VRV, Ventilation, Biddle air curtains)
- > Simply control your entire building centrally
- > Increased customer shopping experience by better management of your shop comfort level

# **Daikin Cloud Services**

- > Control your building no matter where you are
- > Monitor and control multiple sites
- > Installer or technical manager can remotely login to the cloud for first trouble-shooting
- Benchmark the energy consumption of different installations (1)
- > Manage & track your energy use

# User friendly touch control

- Stylish Daikin supplied optional screen for local control fits any interior
- > Intuitive and user-friendly interface
- > Full solution with simple control
- > Easy commissioning

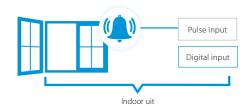
#### **Flexible**

- > Pulse/digital inputs for 3rd party equipment such as kWh meters, emergency input, window contact, ...
- Modular concept allows your cloud to grow with your business
- > Control up to 32 indoor units per controller and 320 units per site

(1) only available in combination with certain indoor units







# **Functions overview**

		Local solution	Cloud solution
Languages		Depends on local device	EN, DE, FR, NL, ES, IT, EL, PT, RU, TR, DA, SV, NO, FI, CS, HR, HU, PL, RO, SL, BG, SK
System layout	N° of connectable indoor units	32	32
	Multiple sites control		•
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature,)	•	•
	Remote control prohibition	•	•
	All devices ON/OFF	•	•
	Zone control		•
	Group control	•	•
	Weekly schedule	•	•
	Yearly schedule		•
	Interlock control	•	•
	Set point limitation		•
	Visualisation of energy use per operation mode		•
Connectable to	DX split, Sky Air, VRV	•	•
	Modular L Smart, VAM, VKM ventilation	•	•
	Air curtains	•	•



# Mini BMS

# with full integration across all product pillars

DCM601A51



• Price competitive mini BMS

• Cross-pillar integration of Daikin products

Integration of third party equipment

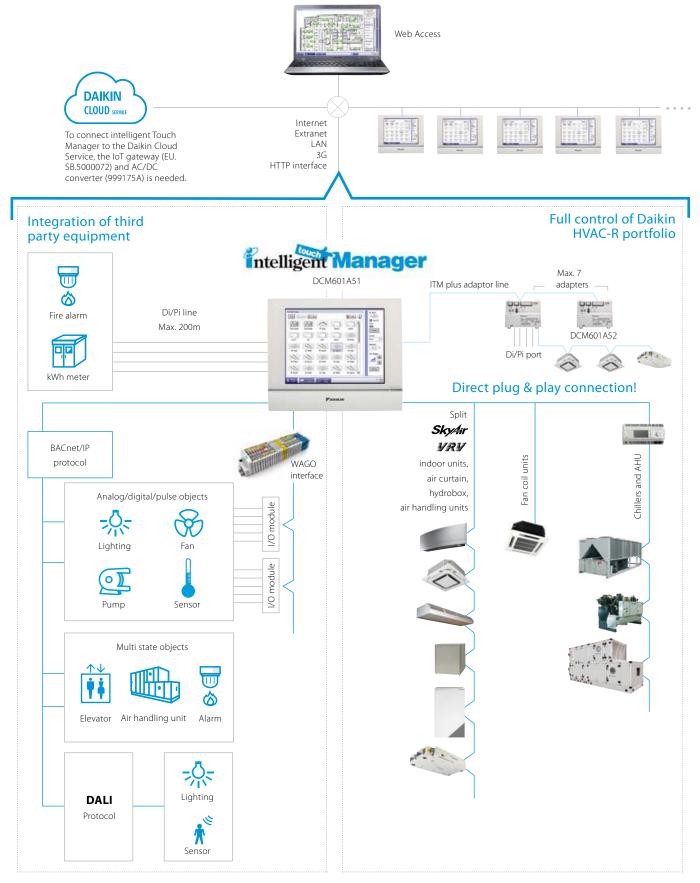
# Download the WAGO selection tool from my.daikin.eu

- > Easy selection of WAGO materials
- > Material list creation
- > Time savino
- Includes wiring scheme
- Contains commissioning/preset data for iTM





# System overview



# Intelligent Manager

#### User friendliness

- > Intuitive user interface
- Visual lay out view and direct access to indoor unit main funtions
- All functions direct accessible via touch screen or via web interface

# Smart energy management

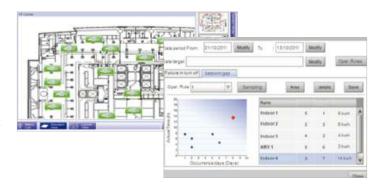
- > Monitoring if energy use is according to plan
- > Helps to detect origins of energy waste
- > Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equipment such as heating

# Flexibility

- > Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- > BACnet protocol for 3rd party products integration
- > I/O for integration of equipment such as lights, pumps... on WAGO modules
- > Modular concept for small to large applications
- Control up to 512 indoor unit groups via one ITM and combine multiple ITM via web interface

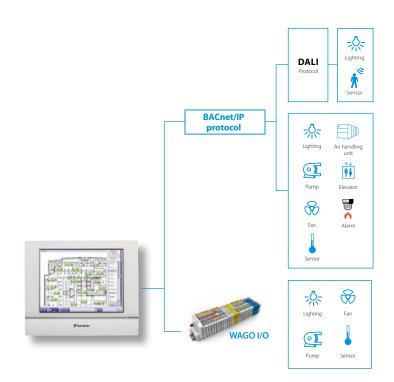
# Easy servicing and commissioning

- > Remote refrigerant containment check reducing on site visit
- > Simplified troubleshooting
- Save time on commissioning thanks to the pre-commissioning tool
- > Auto registration of indoor units









# Functions overview

#### Languages

- > English
- > French
- > German
- > Italian
- > Spanish
- > Dutch
- > Portuguese

#### Management

- > Web access via html 5
- Power Proportional Distribution (option)
- Operational history (malfunctions, ...)
- > Smart energy management
  - monitor if energy use is according to plan
- detect origins of energy waste
- > Setback function
- > Sliding temperature

#### **WAGO Interface**

- Modular integration of 3rd party equipment
- Large variety of input and outputs available. For more details refer to the options list

#### **Open http interface**

 Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

#### **System layout**

 Up to 512 unit groups can be controlled (ITM + 7 iTM Plus adapters)

#### Control

- Individual control (512 groups)
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- > Interlock control
- > Setpoint limitation
- > Temperature limit

# **DALI** integration

- > Control and monitor the lights
- Easier facility management: receive error signal when light or light controller has a malfunction
- Flexible approach and less wiring needed, compared to classic light scheme
- Easier to make groups and control scenes
- Connection between intelligent Touch Manager and DALI through WAGO BACnet / IP interface

# Connectable to

- DX Split, Sky Air, VRV
- HRV
- Chillers (via MT3-EKCMBACIP controller)
- Daikin AHU (via MT3-EKCMBACIP controller)
- Fan coils
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51)



# Centralised remote controller

Centralised control of the Sky Air and VRV system can be achieved via 3 user friendly compact remote controllers. These controls may be used independently or in combination with:

1 group = several (up to 16) indoor units in combination

1 zone = several groups in combination.

A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).

The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

#### DCS302C51

# Centralised remote control



# Providing individual control of 64 groups (zones) of indoor units.

- > a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- > a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- > zone control
- > group control
- > malfunction code display
- > maximum wiring length of 1,000m (total: 2,000m)
- > air flow direction and air flow rate of HRV can be controlled
- > expanded timer function

# DST301B51 Schedule timer



#### Enabling 64 groups to be programmed.

- > a maximum of 128 indoor units can be controlled
- > 8 types of weekly schedule
- a maximum of 48 hours back up power supply
- > a maximum wiring length of 1,000m (total: 2,000m)

# DCS301B51

# Unified ON/OFF control



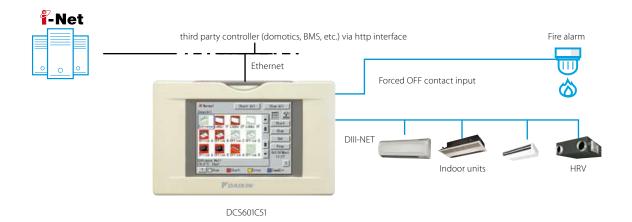
Providing simultaneous and individual control of 16 groups of indoor units.

- > a maximum of 16 groups (128 indoor units) can be controlled
- > 2 remote controls in separate locations can be used
- > operating status indication (normal operation, alarm)
- > centralised control indication
- > maximum wiring length of 1,000m (total: 2,000m)

## DCS601C51



# Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



# Languages

- > English
- > French
- › German
- > Italian
- > Spanish
- > Dutch
- > Portuguese

# **System layout**

- Up to 64 indoor units can be controlled
- Touch panel (full colour LCD via icon display)

## Control

- Individual control
   (set point, start/stop,
   fan speed)
   (max. 64 groups/indoor units)
- › Set back shedule
- Enhanced scheduling function (8 schedules, 17 patterns)
- > Flexible grouping in zones
- > Yearly schedule
- > Fire emergency stop control
- > Interlocking control
- Increased HRV monitoring and control function
- Automatic cooling / heating change-over
- > Heating optimization
- > Temperature limit
- Password security: 3 levels (general, administration & service)
- Quick selection and full control
- > Simple navigation

## Monitoring

- Visualisation via Graphical User Interface (GUI)
- Icon colour display change function
- > Indoor units operation mode
- > Indication filter replacement

## **Cost performance**

- > Free cooling function
- > Labour saving
- > Easy installation
- Compact design: limited installation space
- > Overall energy saving

# Open interface

 Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option DCS007A51)

# **Connectable to**

- > VRV
- > HRV
- > Sky Air
- > Split (via interface adapter)

# Standard protocol interfaces

## RTD

# Modbus Interface

### RTD-RA

> Modbus interface for monitoring and control of residential indoor units

## **RTD-NET**

› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

### **RTD-10**

- > Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
  - Modbus
  - Voltage (0-10V)
- Resistance
- > Duty/standby function for server rooms

## RTD-20

- Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- > Clone or independent zone control
- > Increased comfort with integration of CO<sub>2</sub> sensor for fresh air volume control
- > Save on running costs via
- pre/post and trade mode
- set point limitation
- overall shut down
- PIR sensor for adaptive deadband

## RTD-HO

- Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
- > Intelligent hotel room controller

## RTD-W

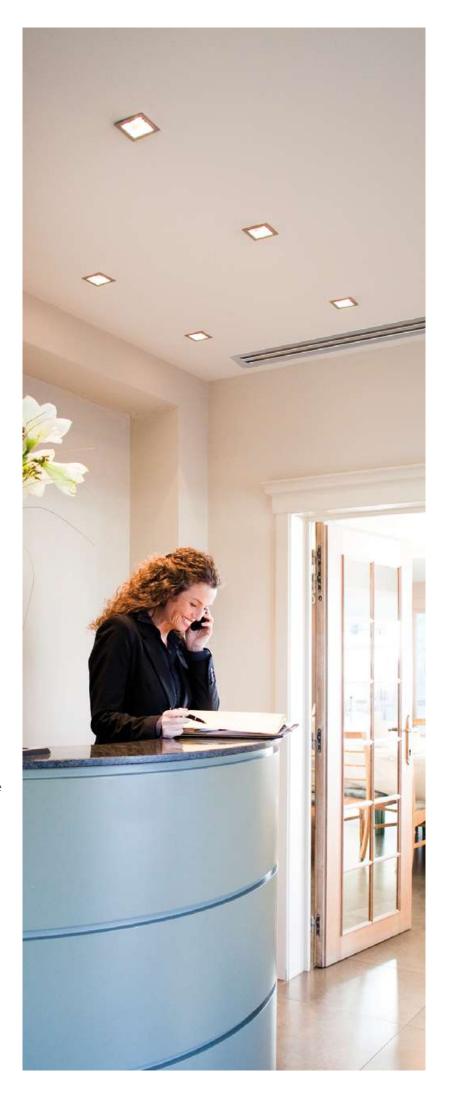
Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

# DCOM-LT/MB

 Modbus interface of Daikin Altherma air-to-water heat pumps, hybrid heat pumps and source source heat pumps

## DCOM/LT-IO

> Voltage & resistance control in addition to Modbus



# Overview functions











Main functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions HxWxD mm	80 x 80 x 37,5	100 x100 x 22			
Key card + window contact					<b>✓</b>
Set back function	✓				✓
Prohibit or restrict remote control functions (setpoint limitation,)	✓	✓	✓	<b>√</b> **	✓
Modbus (RS485)	✓	✓	✓	✓	✓
Group control	✓(1)	✓	✓	✓	✓
0 - 10 V control			✓	✓	
Resistance control			✓	✓	
IT application	✓		✓		
Heating interlock			✓	✓	
Output signal (on/defrost, error)			✓	<b>√</b> ****	✓
Retail application				✓	
Partitioned room control				✓	
Air curtain		√	√	<b>√</b>	

(1): By combining RTD-RA devices

Control functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
Fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control		M	M,V,R	M	
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				

Monitoring functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
Fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
N° of units		M	M	M	M
ault	M	M	M	M	M
ault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Fermo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M



Main functions		RTD-W
Dimensions	HxWxD mm	100x100x22
On/off prohibition		✓
Modbus RS485		✓
Dry contact control		✓
Output signal (operation error)		✓
Space heating / cooling operation		✓
Domestic hot water control		✓
Smart Grid control		

Control functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot water ON	
Domestic Hot Water reheat	M,C
Domestic Hot Water reheat setpoint	
Domestic Hot Water storage	M
Domestic Hot Water Booster setpoint	
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
ault/pump info relay choice	
Control source prohibition	M

Smart grid mode control	
Prohibit Space heating/cooling	
Prohibit DHW	
Prohibit Electric heaters	
Prohibit All operation	
PV available for storage	
Powerful boost	

On/Off Space heating/cooling	<ul> <li>M.C</li> </ul>
Set point leaving water temperature (H/C)	• M
Room temperature setpoint	• M
Operation mode	• M
Domestic Hot Water reheat	• M
Domestic Hot Water storage	• M
Number of units in the group	• M
Average leaving water temperature	• M
Remocon room temperature	• M
Fault	<ul> <li>M,C</li> </ul>
Fault code	• M
Circulation pump operation	• M
Flow rate	
Solar pump operation	
Compressor status	• M
Desinfection operation	• M
Setback operation	• M
Defrost/ start up	• M
Hot start	
Booster Heater operation	
3-Way valve status	
Pump running hours accumulated	• M
Compressor running hours accumulated	
Actual leaving water temperature	• M
Actual return water temperature	• M
Actual DHW tank temperature (*)	• M
Actual refrigerant temperature	
Actual outdoor temperature	• M

- $\begin{array}{ll} M: Modbus \ / \ R: Resistance \ / \ V: Voltage \ / \ C: control \\ *: only \ when \ room \ is \ occupied \ / \ **: \ setpoint \ limitation \ / \ (*) \ if \ available \\ ***: \ no \ fan \ speed \ control \ on \ the \ CYV \ air \ curtain \ / \ ***: \ run \ & \ fault \end{array}$

# Standard protocol interfaces

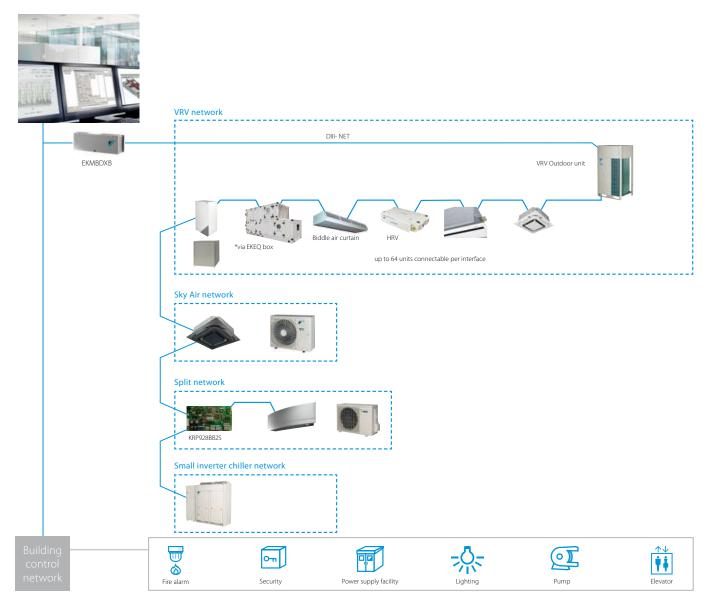
# **EKMBDXB**

# DIII-net Modbus interface

# DAIKIN

# Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

- > Communication via Modbus RS485 protocol
- > Detailed monitoring and control of the VRV total solution
- > Easy and fast installation via DIII-net protocol
- > As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).

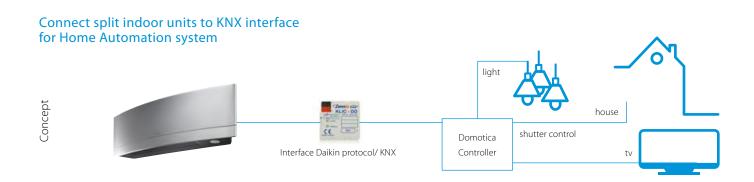


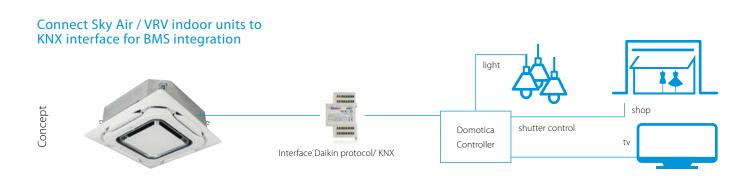
			EKMBDXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoo	or units		10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

## KLIC-DD(3) KLIC-DI

# KNX interface

# Integration of Split, Sky Air and VRV in HA/BMS systems





# KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scene'

- such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

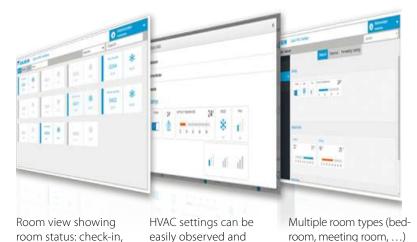
### KNX interface for KLIC-DD (3) Size 45x45x15mm KLIC-DI Size 90x60x35mm Sky Air Split Basic control On/Off Mode Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Temperature Fan speed levels 3 or 5 + auto 2 or 3 2 or 3 Stop or movement Swing or fixed positions (5) Swing Stop or movement Advanced functionalities Error management Communication errors, Daikin unit errors Scenes Auto switch off Temperature limitation Initial configuration Master and slave configuration

## DCM010A51

# PMS Interface

# Hotel interface connecting Daikin HVAC with Oracle

# Property Management Systems



# Simplified configuration of Daikin PMS interface

changed by

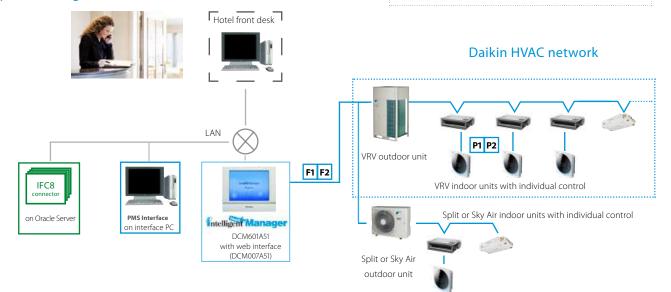
the reception desk

check-out, pre-heating

/ cooling status, room

temperature and A/C

status



can be defined with

for each type

customized A/C settings

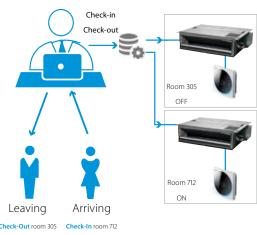
# **Features**

- User-friendly interface for easy front desk support in hotels, conference centers, ...
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- Energy saving thanks to the possibility to limit temperature setpoint
- Up to 5 customized operation profiles based on weather conditions
- Available in 23 languages
- Up to 2,500 units / rooms can be managed

# Hotel case example:

- > On check-in the HVAC for the room is automatically switched on
- > On check-out the HVAC for the room is automatically switched off.
- Increased hotel customer experience by pre-heating / cooling of booked rooms

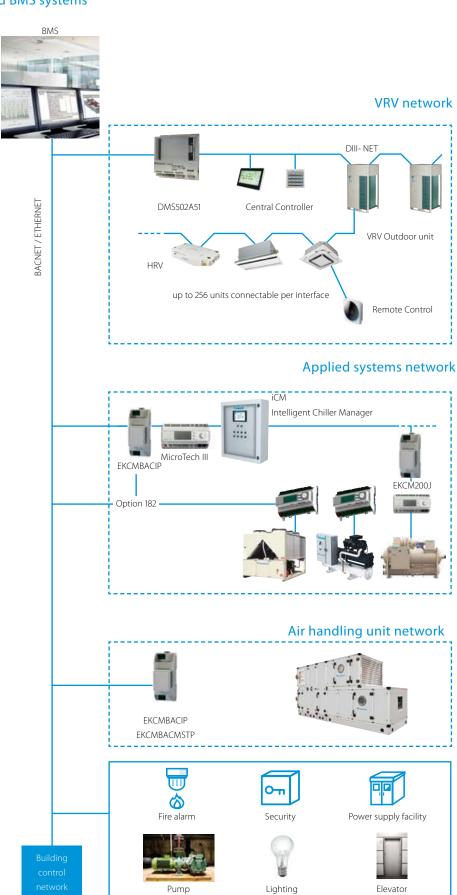
## Hotel front desk



# DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- > Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- > Unlimited site size
- > Easy and fast installation
- PPD data is available on BMS system (only for VRV)



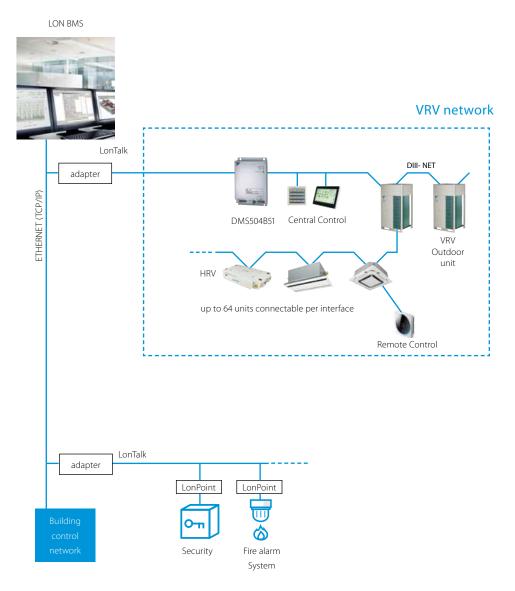
# Standard protocol interfaces

# DMS504B51

# LonWorks Interface

# Open network integration of VRV monitoring and control functions into LonWorks networks

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- > Unlimited sitesize
- > Quick and easy installation



# **EKPCCAB4**

# Daikin Configurator Tool + Software

Simplified commissioning: graphical interface to configure, commission and upload system settings

# Simplified commissioning

The Daikin configurator for Daikin Altherma and VRV is an advanced software solution that allows for easy system configuration and commissioning:

- > Less time is required on the roof configuring the outdoor unit
- Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- > Initial settings on the outdoor unit can be easily retrieved







Retrieve initial system settings







# Daikin Cloud Service to achieve optimal operation (LOUD) SERVICE

Daikin Cloud Service is a cloud-based remote control and monitoring solution for DX systems. Using enhanced control, monitoring and predictive logic, Daikin Cloud Service provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Monitor & control\* your system no matter where you are while teaming up with Daikin experts

# Remote control and energy visualisation

# Puts you in the driving seat of your energy management

- ✓ Control and monitor your premises, wherever you are
- Centralised control and monitoring of all your premises
- ✓ Check errors remotely without having to go on site
- ▼ Visualise energy consumption and reduce energy waste by comparing different premises

## Multi-site monitoring



# Remote support and diagnostics

## Daikin specialist supervision, so you can focus on your core business

- ☑ Early warning of system deviations to maximise system uptime and avoid emergency repairs\*\*
- Service providers have access to operational data so they arrive on site prepared
- ✓ Remote expert assistance in case of errors



# Advice and optimisation

## Get the best out of your system through expert advice

✓ Periodical analysis and optimisation report by experts

Personalised actions to maximise energy efficiency and comfort

✓ Increased system lifetime as the system runs as it should

Daikin Cloud Service requires a subscription. Contact your local sales representative for more information.

<sup>\*</sup> Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

<sup>\*\*</sup> Only available for VRV systems

Daikin Cloud Service packages	Control and monitoring	Remote support and diagnostics	Advice and optimisation
Remote control, scheduling and interlocking	(DCC601A51 only)	(DCC601A51 only)	√ (DCC601A51 only)
Energy monitoring	✓	✓	✓
Multi-site benchmark	✓	✓	✓
Alarm history and e-mail notifications**	Х	✓	✓
Predictions and e-mail notifications**	Х	✓	✓
Operational data access	Х	✓	✓
Indoor use analysis	Х	✓	✓
Outdoor use analysis	X	✓	✓
Remote diagnostic and support from Daikin	X	✓	✓
Periodical analysis and optimisation advice from Daikin	Х	Х	✓
Can be combined with maintenance programmes: - Technical inspection - Preventive Maintenance Plan - Comprehensive Maintenance Plan	×	×	<b>✓</b>

Packages subject to local availability
Daikin Cloud Service replaces VRV Cloud and i-Net services.

## Flexible solution

Manage your premises according to your needs, using a local control or remotely via Daikin Cloud Service, or a combination of both.

# Control\*, no matter where you are

Daikin Cloud Service gives you full control of one or more premises wherever you are, using your PC, tablet or smartphone.

# Predictive logic for VRV to prevent breakdowns

The operational data is continuously analysed by Daikin algorithms to predict potential failures and avoid unexpected costs.

# Compatible with:

- > Intelligent Tablet Controller (DCC601A51)
- > Intelligent Touch Manager (DCM601A51) + IoT gateway
- > LC8 + IoT gateway



1. Clear dashboard overview



4. Energy management and consumption follow up



2. Monitor and control your system



5. Multi site management



3. Easy setting of schedules

 $<sup>{}^{*}\</sup>operatorname{Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller}$ 

<sup>\*\*</sup> Only available for VRV systems

# Other devices

## K.RSS

# Wireless room temperature sensor

# Flexible and easy installation

- Accurate temperature measurement thanks to flexible placement of the sensor
- > No need for wiring
- > No need to drill holes
- > Ideal for refurbishment



# Connection diagram Daikin indoor unit PCB (FXSQ example)



# **Specifications**

			Wireless room tempera	ture sensor kit (K.RSS)
			Wireless room temperature receiver	Wireless room temperature sensor
Dimensions		mm	50 x 50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	0
Operation range		°C	0~	50
Communication	Туре		R	F
Communication	Frequency	MHz	868	8.3

> Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

# KRCS\*

# Wired room temperature sensor



- Accurate temperature measurement, thanks to flexible placement of the sensor
- specifc model code for each indoor unit can be found in the option tables

# **Specifications**

Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

# ADAPTER PCBs

# Simple solutions for unique requirements Concept and benefits > Low cost option to satisfy simple control

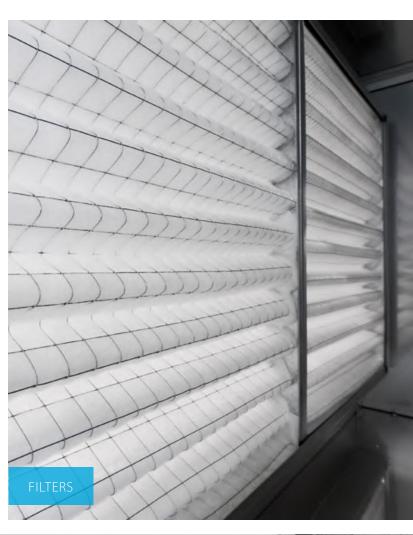
requireme > Deployed	nts on single or multiple	e units	Connectable to:		
			Split	Sky Air	VRV
	(E)KRP1B* adapter for wiring	<ul> <li>Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper</li> <li>Powered by and installed at the indoor unit</li> </ul>		•	•
	KRP2A*/KRP4A* Wiring adapter for electrical appendices	<ul> <li>Remotely start and stop up to 16 indoor units (1 group) (KRP4A* via P1 P2)</li> <li>Remotely start and stop up to 128 indoor units (64 groups) (KRP2A* via F1 F2)</li> <li>Alarm indication/ fire shut down</li> <li>Remote temperature setpoint adjustment</li> <li>Cannot be used in combination with a central controller</li> </ul>		•	•
denim	SB.KRP58M2	<ul> <li>Low noise and demand control option for RZAG-N* and RZASG-M* series.</li> <li>Includes obligatory mounted plate EKMKSA2</li> </ul>		•	
d regions	SB.KRP58M3	Low noise and demand control option for RZA-D series.     Includes obligatory mounted plate EKMKSA3		•	
	<b>DTA104A*</b> Outdoor Unit External Control Adapter	<ul> <li>Individual or simultaneous control of VRV system operating mode</li> <li>Demand control of individual or multiple systems</li> <li>Low noise option for individual or multiple systems</li> </ul>			•
	DC5302A52-9 Unification adapter for computerized control	<ul> <li>Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system</li> <li>Must be used together with Intelligent Touch Controller or intelligent Touch Manager</li> <li>Cannot be combined with KRP2/4*</li> <li>Can be used for all VRV indoor models</li> </ul>			•
	<b>KRP928*</b> Interface adapter for DIII-net	Allows integration of split units to Daikin central controls	•		
	KRP980* Adapter for split units without an S21 port	Connect a wired remote control Connect to Daikin central controls Allow external contact	•		
	KRP413* Wiring adapter normal open contact / normal open pulse contact	Switch off auto restart after power failure Indication of operation mode / error Remotely start /stop Remotely change operation mode Remotely change fan speed	•		

Some adapters require an installation box, refer to the option lists for more information

# **Accessories**

EKRORO	0	External ON/OFF or forced off     Example: door or window contact
EKRORO 3	15	External ON/OFF or forced off     F1/F2 contact     Example: door or window contact
KRC19-26A		<ul> <li>Mechanical cool/heat selector</li> <li>Allows switching over an entire system between cooling/heating/fan only</li> <li>Connects to the A/B/C terminals of the unit</li> </ul>
BRP2A81	8:11	Cool/heat selector PCB     Required to connect KRC19-26A to a VRV IV outdoor unit







# Options

# & accessories

Options & accessories	195
VRV outdoor	196
VRV indoor	200
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**R-3**2

		VRV S-series		V	RV IV Heat Recove	ry			
		RXYSA-AV1/AY1	REYQ 8~12	REYQ 14~20	REMQ5	2-module systems	3-module systems		
	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system					BHFQ23P907	BHFQ23P1357		
22	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units		Special order unit						
Kits	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.								
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	EKBPH250D	EKBPH012T7A	EKBPH020T7A	EKBPH012T7A				
	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units							
Adapters	KRC19-26A  Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one  BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the  A-B-C terminals of the outdoor unit / BS-box.	•							
_	Cool/heat selector PCB (required to connect KRC19-26A)	Standard on unit							
	KKSA26A560* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)								
	KJB111A Installation box for remote cool/heat selector KRC19-26A	•							
	EKCHSC - Cool/heat selector cable								
	EKPCCAB4 VRV configurator	•	•	•	•	•	•		
S	KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.								
Others	DTA109A51 DIII-net expander adapter		•	•	•	•	•		
	BPMKS967A2/A3								
	Branch provider (for connection of 2/3 RA indoor units)  EKDK04								
	Drain plug kit								
	EKLN140A Sound enclosure	•							

Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system  Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units  Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a feed supplied heater to preve diamined from the admined from the region in the drain plant.  Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)  External control adapter for outdoor unit - Allows to activate Low Noise Operation in extremely cold and humid climates (one per outdoor unit needed)  External control adapter for outdoor unit - Allows to activate Low Noise Operation in extremely cold and humid climates (one per outdoor unit needed)  External control adapter for outdoor unit - Allows to activate Low Noise Operation in extremely cold and humid climates (one per outdoor unit needed)  External control adapter for outdoor unit - Allows to activate Low Noise Operation in the cut make the cold and humid climates (one per outdoor unit needed)  External control adapter for outdoor unit - Allows to activate Low Noise Operation in the cuttor unit and control, limiting power consumption via activate Low Noise Operation in the cuttor unit and control unit and outdoor units. Seve Opions & Accessories of indoor unit.  Seve Opions & Accessories of indoor units.  Cool/heat selector PCB (Required to connect KRCIP) 26A)  EXRYAGASASOF  Cool/heat selector PCB (Required to connect KRCIP) 26A)  EXRYAGASASOF  EXRYAGASASOF  EXRYAGASASOF  EXRYAGASASOF  EXRYAGASOF Accessories of indoor units.  EXRYAGASOF Accessories of									
Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system  Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units  Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a fined-supplied heater to prevent drain water from fine-rescring in the drain pan.  Heater tape kit - Optional electrical heater to guarantee trouble free operation in estremely cold and humid climates lone per outdoor unit needed?  External control adapter for outdoor unit. Allows to activate Low Molec Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the FIP2 communication line and requires power supply from an indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  RKC19-26A  EXERCIP-26A  Cool/heat selector PCB frequired to connect KRC19-26A  EXERCIP-26A  EXERCIP-				VRV	IV S-series				
refrigerant system  Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units  Central drain pan kit. Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from feezing in the drain pan.  Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit - slow of a care to the cold area should be heated by a field-supplied heater to prevent drain water from feezing in the drain pan.  External control adapter for outdoor unit - slow a activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts.  Comects to the FIVE2 communication line and requires power supply from an indoor unit.  SerQ Doub, "PNR-Will outdoor unit."  SerQ Doub, "PNR-Will outdoor unit."  SerQ Doub, "PNR-Will outdoor unit."  See Options & Accessories of indoor unit.  For installation into an indoor unit exact adapter type depends on type of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  For installation into an indoor unit exact adapter type depends on type of indoor unit.  See Options & Accessories of indoor unit.  For installation into an indoor unit exact adapter type depends on type of indoor unit.  For installation into an indoor unit exact adapter type depends on type of indoor unit.  For installation into an indoor unit exact adapter type depends on type of indoor unit.  For installation into an i			RXYSCQ-TV1	RXYSQ4-6TV9	RXYSQ4-6TY9				
Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.  Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit readled)  External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the FUZ communication line and requires power supply from an indoor unit, SSVQ box, or VRV-Will outdoor unit.  RRC19-26A  RRC19-26A  RRC19-26A  RSC20-26C  Cool/heat selector PCB (Required to connect KRC19-26A)  KISSA26ASOP  Cool/heat selector PCB Required to connect KRC19-26A)  KISSA26ASOP  Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)  KJB111A  Installation box for remote cool/heat selector KRC19-26A  EKCHSC-Cool/heat selector cable (Required to connect KRC19-26A)  EKCC-Cabl  ViX configurator  KKSS26B1*  Demand FCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTAIDASA3/GI/62  For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor unit. See Options & Accessories of indoor unit. See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indoor unit.  See Options & Accessories of indo									
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extremely cold and humid climates (one per outdoor unit needed)  External control adapter for outdoor unit. Allows to activate Low Noise Operation and three levels of demand control, limiting opier consumption was external dry contacts. Connects to the FIVE2 communication line and requires power supply from an indoor unit.  EXPLO DO. or VFRV-Will outdoor unit.  KRC19-26A  KRC19-26A  BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit. PS-box.  Cool/heat selector PCB (Required to connect KRC19-26A)  EBRP2B  KKSA26A560* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)  KJBIII A Installation box for remote cool/heat selector KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EMPCABA  VRV configurator  KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  Difference repander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)	ž	water from all bottom plate outlets into a single outlet. In cold areas should be heated by							
three levels of demand control, limiting power consumption via external dry contacts. Connects to the FL/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-Will outdoor unit. KRC19-26A Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.  Cool/heat selector PCB (Required to connect KRC19-26A)  KKSA26A560* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)  KJB111A Installation box for remote cool/heat selector KRC19-26A  EKCHSC-Cool/heat selector cable (Required to connect KRC19-26A)  EKPCCAB4  VRX configurator  KKSB26B1*  Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTA109AS1 Dill-net expander adapter  BPMKS967A2//A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04		Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)							
Mechanical cool/heat selector – allows to switch an entire Hear Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.  Cool/heat selector PCB (Required to connect KRC19-26A)  KKSA26A560* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)  KJB111A Installation box for remote cool/heat selector KRC19-26A  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKPCCAB4 VRV configurator  KKS826B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDX04		three levels of demand control, limiting power consumption via external dry contacts.  Connects to the F1/F2 communication line and requires power supply from an indoor unit,	For installation into an indoor unit: exact adapter type depends on type of indoor unit.						
Cool/heat selector PCB (Required to connect KRC19-26A)  KKSA26A560* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)  KJB111A Installation box for remote cool/heat selector KRC19-26A  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKPCCAB4 VRV configurator  KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTIA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04	Adapters	Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the		•	•				
Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)  KJB111A Installation box for remote cool/heat selector KRC19-26A  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKPCCAB4 VRV configurator  KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04		Cool/heat selector PCB (Required to connect KRC19-26A)		EBRP2B					
Installation box for remote cool/heat selector KRC19-26A  EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)  EKPCCAB4 VRV configurator  KKSB26B1* DTA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04		Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and							
EKPCCAB4 VRV configurator  KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTA109A51 DIll-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04	_			•	•				
VRV configurator  KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.  DTA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04		EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)			•				
DTA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04			•	•	•				
DTA109A51 DIII-net expander adapter  BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)  EKDK04	Others								
Branch provider (for connection of 2/3 RA indoor units)  EKDK04	C								
			•	•	•				
				•	•				

	v	RV IV with con	tinuous heatin	g		VRV IV without continuous heating				VRV IV C+series			
RYYQ8-12	RYYQ14-20	RYMQ8-12	RYMQ14-20	2-module systems	3-module systems	RXYQ8-12	RXYQ14-20	2-module systems	3-module systems	RXYLQ	RXMLQ	3-module systems	
				BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517
EKBPH012T7A	EKBPH020T7A	EKBPH012T7A	EKBPH020T7A			EKBPH012T7A	EKBPH020T7A						
			_	For installati r 14-20 HP the d		or unit: exact a	A53/61/62 dapter type dep						

•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system
BRP2A81	BRP2A81	BRP2A81	BRP2A81	BRP2A81 (1 kit per system)	BRP2A81 (1 kit per system)	BRP2A81	BRP2A81	BRP2A81 (1 kit per system)	BRP2A81 (1 kit per system)	BRP2A81	BRP2A81	BRP2A81 (1 kit per system)	BRP2A81 (1 kit per system)
	•		•	1 kit per system	1 kit per system		•	1 kit per system	1 kit per system				
•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system
•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•		•				•						
•	•	•	•	•	•	•	•	•	•				
•	•					•	•			•	•		

	VRV IV i-series SB.RKXYQ										
RXYSQ8-12TY1	RDXYQ5	RDXYQ8	RKXYQ5	RKXYQ8							
	EKDPHIRDX	EKDPHIRDX									

# DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units

See Options & Accessories of Indoor units											
			•	•							
				BRP2A81							
			•	•							
•			•	•							
•											



			VRV IV-	Q Heat Pump Replacem	ent VRV					
		RQYQ 140P	RXYQQ8-12	RXYQQ14-20	2-module systems	3-module systems				
	Multi-module connection kit (obligatory) Connects multiple modules into a single refrigerant system				BHFQ22P1007	BHFQ22P1517				
Kits	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	KWC26B160								
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)		EKBPH012T7A	EKBPH020T7A						
Adapters	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	on type of indoor unit.  For installation into an indoor unit:  For installation into an indoor unit:  For it-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units.								
Ada	KRC19-26A Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	•	•	•	1 kit per system	1 kit per system				
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor)		•	•	1 kit per system	1 kit per system				
	KKSA26A560* - Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			•	1 kit per system	1 kit per system				
	KJB111A Installation box for remote cool/heat selector KRC19-26A	•	•	•	1 kit per system	1 kit per system				
Others	EKPCCAB4 VRV configurator		•	•	•	•				
Oth	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			•						
	DTA109A51 DIII-net expander adapter	•	•	•	•	•				

Ref	nets & branch selector boxes		Refne	t Joints			Refnet Headers
		Capacity index < 200	Capacity index 200 ≤ x < 290	Capacity index 290 ≤ x < 640	Capacity index > 640	Capacity index < 290	Capacity index 290 ≤ x < 640
	Metric-size connections for heat pump systems (2-pipe)	KHRQM22M20T	KHRQM22M29T	KHRQM22M64T	KHRQM22M75T	KHRQM22M29H	<b>290 ≤ X &lt; 640</b> KHRQM22M64H
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20T	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHRQ22M29H	KHRQ22M64H
Refr	Metric-size connections for heat recovery systems (3-pipe)	KHRQM23M20T	KHRQM23M29T	KHRQM23M64T	KHRQM23M75T	KHRQM23M29H	KHRQM23M64H
	Imperial-size connections for heat recovery systems (3-pipe)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	KHRQ23M29H	KHRQ23M64H
s (BS box) (only covery system)	EKBSVQLNP Sound reduction kit (sound insulation)						
tor boxes (B? / heat recove	KHFP26A100C Closed pipe kit						
Options for Branch selector boxes for connection with VRV heat recc	KHRP26A1250C Joint kit						
Options for for for for	Quiet kit						

	VRV III-O Heat Recov	ery Replacement VRV		VRV-W IV Water-cooled VRV						
	viiv iii Qiicaciiccov	ery neplacement vita			Heat Pump	application	Heat Recover	Heat Recovery application		
RQEQ 140~212	2-module systems 3-module systems 4		4-module systems	RWEYQ8-14	2-module systems	3-module systems	2-module systems	3-module systems		
	BHFP26P36C	BHFP26P63C	BHFP26P84C		BHFQ22P1007 / BHFQ22P1517 (1)	BHFQ22P1517 (1)	BHFQ23P907 / BHFQ23P1357 (1)	BHFQ23P1357 (1)		

DTA104A53/61/62
Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units

				(for H/P only)	1 kit per system	1 kit per system		
				(for H/P only)	1 kit per system	1 kit per system		
				(for H/P only)	1 kit per system	1 kit per system		
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•

			Heat Recovery	Branch Selector B	oxes (BS-Boxes)								
Capacity index	1-port	4-port	6-port	8-port	10-port	12-port	16-port						
> 640	BS1Q-A	BS4Q14AV1B	BS6Q14AV1B	BS8Q14AV1B	BS10Q14AV1B	BS12Q14AV1B	BS16Q14AV1E						
KHRQM22M75H													
KHRQ22M75H													
KHRQM23M75H													
KHRQ23M75H													
	•												
		•	•	•	•	•	•						
		•	•	•	•	•	•						
		KDDN26A4	KDDN26A8	KDDN26A8	KDDN26A12	KDDN26A12	KDDN26A16						



**R-32 R-410A R-32 R-410A** 

			Ceiling mounted cassette units							
			Round flow (800x800)	4-way (600x600)		2-way blow				
			FXFA-A / FXFQ-B	FXZA-A / FXZQ-A	FXCQ 20~40A	FXCQ 50~63A	FXCQ 80 ~125A			
_ <u>.v.</u>		Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	R-410A model: BYFQ60C2W1W (white panel) BYFQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel) R-32 model: BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)	ВҮВСQ40Н	BYBCQ63H	BYBCQ125H			
Panels		Panel spacer for reducing required installation height		KDBQ44B60						
-		Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	(Standard panel) BDBHQ44C60 (white & grey panel)						
		Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	R-410A models: BRYQ60A2W (white) BRYQ60A2S (grey) R-32 models: BRYQ60A3W (white) BRYQ60A3W (grey)						
Individual control systems		Infrared remote control (incl. receiver)	BRC7FA532F (white panels) BRC7FA532FB (black panels) BRC7FB532F (white designer panel) BRC7FB532FB (black designer panel)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	BRC7C52	BRC7C52	BRC7C52			
ontro		BRP069C51 - Online controller	•(R-32 model only)	•(R-32 model only)						
Jividual		Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	•(mandatory for R-32)	•(mandatory for R-32)	•	•	•			
Ē		BRC1E53A/B/C - Wired remote control with full-text interface and back-light	•(18)	•(18)	•	•	•			
		BRC1D52 (4) - Standard wired remote control with weekly timer	•(15)(18)	•(18)	•	•	•			
2		DCC601A51 - intelligent Tablet Controller	•	•	•	•	•			
Cont	Ê	DCS601C51 (12) - intelligent Touch Controller	•	•	•	•	•			
Centralised control	systems	DCS302C51 (12) - Central remote controller	•	•	•	•	•			
Centr		DCS301B51 (12) (13) - Unified ON/OFF controller	•	•	•	•	•			
		DST301B51 (12) - Schedule timer	•	•	•	•	•			
<b>2</b>	trol	RTD-NET - Modbus interface for monitoring and control	•	•	•	•	•			
andai	for individual control	RTD-10 - Modbus interface for infrastructure cooling	•	•	•	•	•			
& Sta	ividu	RTD-20 - Modbus interface for retail	•	•	•	•	•			
rface	or ind	RTD-HO - Modbus interface for hotel	•	•	•	•	•			
Management System & Standard protocol interfaces	<u>~</u>	KLIC-DI - KNX Interface	•	•	•	•	•			
gem	<u>.</u>	DCM601A51 - intelligent Touch Manager	•	•	•	•	•			
Mana	contro	EKMBDXB - Modbus interface	•	•	•	•	•			
Building	intra	DCM010A51 - Daikin PMS interface	•	•	•	•	•			
Buile	for central	DMS502A51 - BACnet Interface	•	•	•	•	•			
		DMS504B51 - LonWorks Interface  Replacement long life filter, non-woven type	WAEDEE11/1/CO	WAFO 441DA CO	KAFP531B50	WAEDE31DOO	KAFP531B160			
Filters		Auto cleaning filter	KAFP551K160 see decoration panel	KAFQ441BA60	KALLOSIBOO	KAFP531B80	KAFP331B10U			
and	ors	KRCS - External wired temperature sensor	KRCS01-7B	R-410A model: KRCS01-4 R-32 model: KRCS01-8B	KRCS01-4	KRCS01-4	KRCS01-4			
Wiring and	sensors	K.RSS - External wireless temperature sensor	R-410A: K.RSS R-32: SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	R-410A: K.RSS R-32: SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	•	•	•			
		Adapter with 2 output signals (Compressor / Error, Fan output)	KRP1BA58 (2)(7)	R-410A model: KRP1B57 R-32 model: ERP02A50 (2)						
		Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C12 (2)(7)	R-410A model: EKRP1B2 R-32 model: EKRP1C14 (2)	EKRP1B2	EKRP1B2	EKRP1B2			
		Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140 $\!\Omega$	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51 (2)	KRP4A51 (2)	KRP4A51 (2)			
Adapters		Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)			
Adap		Adapter for keycard and/or window contact connection (2)(11) Adapter for multi-tenant applications	BRP7A53 DTA114A61	BRP7A53 DTA114A61	BRP7A51	BRP7A51	BRP7A51			
		(24VAC PCB power supply interface) External control adapter for outdoor unit (installation on indoor unit)	(R-410A model only)	(R-410A model only)	DTA104A61	DTA104A61	DTA104A61			
		Installation box / Mounting plate for adapter PCBs	KRP1H98A (7)	KRP1BB101	KRP1C96 (16) (17)	KRP1C96 (16) (17)	KRP1C96 (16) (17)			
		(For units where there is no space in the switchbox) Wiring kit for Remote ON/OFF or Forced OFF	KRP1BC101 Standard	KRP1BC101 Standard	Standard	Standard	Standard			
		Relay PCB for output signal of refrigerant sensor Drain pump kit	R-32 model only: ERP01A51 Standard	R-32 model only: ERP01A50 (2) Standard	Standard	Standard	Standard			
Ş.		Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)								
Others		Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60						
		Air discharge adapter for round duct Filter chamber for bottom suction	- (- )(-)		KDDFP53B50	KDDFP53B80	KDDFP53B160			
		. a.c. chamber for bottom suction	1	1	טנטננ ווטטא	10000	טטומכניווקטא			

<sup>(1)</sup> pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt"
(4) Not recommended because of the limitation of the functions

<sup>(5)</sup> To be able to control the BYCQ140EGF(B) the controller BRC1E or BRC1H\* is needed
(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units
(7) Option not available in combination with BYCQ140EGF(B)
(8) Both parts of the fresh air intake are needed for each unit
(9) Cannot be combined with sensor kit
(10) Independently controllable flaps function not available

Concealed ceiling units (duct units)								
Corner (1-	way blow)	Slim	Conce		ım ESP			
FXKQ 25~40MA	FXKQ 63MA	FXDA-A / FXDQ-A3	FXSA15-32A / FXSQ15-32A	FXSA40-50A / FXSQ40-50A	FXSA63-80A / FXSQ63-80A	FXSA100-125A / FXSQ100-125A	FXSA140A / FXSQ140A	
BYK45F	BYK71F							
BRC4C61	BRC4C61	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65	
		•(R-32 model only)						
•	•	•(mandatory for R-32)						
•	•	•(18)	•(18)	•(18)	•(18)	•(18)	•(18)	
•	•	•(18)	•(18)	•(18)	•(18)	•(18)	•(18)	
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KAFJ521F56	KAFJ521F80	15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102						
KRCS01-1	KRCS01-1	R-410A model: KRCS01-4 R-32 model: KRCS01-8B	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	
•	•	R-410A: K.RSS R-32: SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	R-410A: K.RSS R-32: SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	R-410A: K.RSS R-32: SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	R-410A: K.RSS R-32: SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	R-410A: K.RSS R-32: SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	R-410A: K.RSS R-32: SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	
KRP1B61	KRP1B61	R-410A model: KRP1B56	R-410A model: EKRP1B2(2)	R-410A model: EKRP1B2(2)	R-410A model: EKRP1B2(2)		R-410A model: EKRP1B2(2)	
KRP4A51	KRP4A51	R-32 model: ERP02A50 KRP4A54-9	R-32 model: EKRP1C14 KRP4A52(2)					
KRP4A51 KRP2A51	KRP2A51	KRP2A53	KRP4A52(2) KRP2A51(2)	KRP4A52(2) KRP2A51(2)	KRP4A52(2) KRP2A51(2)	KRP4A52(2) KRP2A51(2)	KRP4A52(2) KRP2A51(2)	
BRP7A51	BRP7A51	BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A51	BRP7A51	
DTA104A61	DTA104A61	DTA114A61 (R-410A model only) DTA104A53	DTA114A61 (R-410A model only) DTA104A61					
		KRP1BB101	KRP1BB101/ KRP1BC101	KRP1BB101/ KRP1BC101	KRP1BB101/ KRP1BC101	KRP1BB101/ KRP1BC101	KRP1BB101/ KRP1BC101	
Standard	Standard		Standard R-32 model only: ERP01A50					
Standard	Standard	Standard . (R-410A only)	Standard (R-410A only)	Standard . (R-410A only)	Standard . (R-410A only)	Standard (R-410A only)	Standard (R-410A only)	
			KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A		

<sup>(11)</sup> Only possible in combination with BRC1H\* / BRC1E\*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box

<sup>(17)</sup> Only one installation box can be installed per indoor unit
(18) VRV R-32 indoor units cannot be connected to this controller
(19) The BYFQ60C4\* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary

		Conceale	ed ceiling units (d	uct units)		Ceiling suspe	nded units
		High		High ESP		1-way blow	
		FXMQ 50~80	FXMQ 100~125	FXMQ 200~250	FXHQ 32A	FXHQ 63A	FXHQ 71~100A
	Decoration panel	-				-	
<u>s</u>	(obligatory for cassette units, optional for others, rear panel for FXLQ)						
Panels	Panel spacer for reducing required installation height						
ã	Sealing kit for 3- or 2-directional air discharge						
	Sensor kit						
S	Infrared remote control including receiver	BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7GA53-9	BRC7GA53-9
system	BRP069C51 - Online controller						
Individual control systems	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•
ividual	BRC1E53A/B/C - Wired remote control with full-text interface and back-light	•	•	•	•	•	•
<u>n</u>	BRC1D52 (4) - Standard wired remote control with weekly timer	•	•	•	•	•	•
2	DCC601A51 - Intelligent Tablet Controller	•	•	•	•	•	•
ont	DCS601C51 (12) - intelligent Touch Controller	•	•	•	•	•	•
tem tem	DCS302C51 (12) - Central remote control	•			•		
ralis sys	DCS301B51 (12) (13) - Unified ON/OFF control						
Centralised control systems		•	•	•	•	•	•
	<b>DST301B51 (12)</b> - Schedule timer	•	•	•	•	•	•
nent ard	DCM601A51 - Intelligent Touch Manager	•	•	•	•	•	•
age। andह	EKMBDXB - DIII-net modbus interface	•	•	•	•	•	•
Suilding management system + standard protocol interface	KLIC-DI - KNX interface	•	•	•	•	•	•
Building I system protoco	DMS502A51 - BACnet interface	•	•	•	•	•	•
Builk P. S. Pr	DMS504B51 - LowWorks interface	•	•		•		
	Replacement long life filter, non-woven type	-	_	KAFJ371L280 (18)	KAFP501A56	KAFP501A80	KAFP501A160
Filters	Auto cleaning filter						
and	KRCS - External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4
Wiring and sensors	K.RSS - External wireless temperature sensor	•	•	•	•	•	•
	Adapter with 2 output signals (Compressor / Error, Fan output)				KRP1B54	KRP1B54	KRP1B54
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1B2	EKRP1B2	KRP1B61			
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140 $\!\Omega$	KRP4A51	KRP4A51	KRP4A51	KRP4A52 (2)	KRP4A52 (2)	KRP4A52 (2)
Adapters	Adapter for external central monitoring/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51	KRP2A62 (2)	KRP2A62 (2)	KRP2A62 (2)
Ada	Adapter for keycard and/or window contact connection (2)(11)	BRP7A51	BRP7A51	BRP7A51	BRP7A52	BRP7A52	BRP7A52
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61	DTA104461	DT4104462.0	DT4104462.0	DT4104462.0
	External control adapter for outdoor unit (installation on indoor unit)	DTA104A61	DTA104A61	DTA104A61	DTA104A62-9	DTA104A62-9	DTA104A62-9
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox) Wiring kit for Remote ON/OFF or Forced OFF	KRP4A96 Standard	KRP4A96 Standard	Standard	KRP1D93A	KRP1D93A	KRP1D93A EKRORO4
	3	Standard	Standard	Standard	EKRORO4	EKRORO4	EKKUKU4
	Relay PCB for output signal of refrigerant sensor  Drain pump kit	Standard	Standard	KDU30M250	KDU50P60	KDU50P140	KDU50P140
	Multi zoning kit (for detailed model code overview refer to	Standard	Standard	KD030W250	KD050P60	KD030F140	KD030F140
ers	multizoning argue card in this catalogue)						
Others	Fresh air intake kit (direct installation type)				KDDQ50A140	KDDQ50A140	KDDQ50A140
-	Air discharge adapter for round duct	KDAJ25K71	KDAJ25K140				
	Filter chamber for bottom suction				KHFP5M35	KHFP5N63	KHFP5N160

<sup>(1)</sup> pump station is necessary for this option (2) Installation box is necessary for these adapters

<sup>(3)</sup> The BYCQI40EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQI40E decoration panel in environments exposed to concentrations of dirt"

<sup>(4)</sup> Not recommended because of the limitation of the functions
(5) To be able to control the BYCQ140EGF(B) the controller BRC1E is needed
(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units

<sup>(7)</sup> Option not available in combination with BYCQ140EGF(B) (8) Both parts of the fresh air intake are needed for each unit

<sup>(9)</sup> Cannot be combined with sensor kit (10) Independently controllable flaps function not available

<sup>(10)</sup> Independently Controllable haps function flot available
(11) Only possible in combination with BRC1H\* / BRC1E\*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.

<sup>(16)</sup> Up to 2 adaptor PCBs can be installed per installation box (17) Only one installation box can be installed per indoor unit (18) Filter chamber KDJ3705L280 is necessary for this option

# **R-3**2 **R-410A**

	Wall mounted units		Floor star	nding units	
4-way blow		Concealed		Free-standing	
FXUQ-A	FXAA-A / FXAQ-A	FXNQ-A	FXLQ 20~25	FXLQ 32~40	FXLQ 50~63
			EKRDP25A5	EKRDP40A5	EKRDP63A5
19B140 + KDBTP49B140					
BRC7C58	BRC7EA630 / BRC7EA628	BRC4C65	BRC4C65	BRC4C65	BRC4C65
	•(R-32 model only)				
•	(mandatory for R-32)	•	•	•	•
•	•(18)	•	•	•	•
•	•(18)	•	•	•	•
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KAF5511D160					
KRCS01-4	R-410A model: KRCS01-1B R-32 model: KRCS01-8B	KRSC01-4	KRCS01-1	KRCS01-1	KRCS01-1
•	R-410A: K.RSS + EKEWTSC R-32: SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	•	•	•	•
	R-410A: KRP1B56 R-32: ERP02A50 (2)	KRP1B56	KRP1B61	KRP1B61	KRP1B61
KRP4A53 (2)	KRP4AA51 (2)	KRP4A54-9	KRP4A51	KRP4A51	KRP4A51
	KRP2A51 / KRP2A61(2)	KRP2A53	KRP2A51	KRP2A51	KRP2A51
BRP7A53	BRP7A51 (2)	BRP7A51	BRP7A51	BRP7A51	BRP7A51
	DTA114A61 (R-410A model only)	DTA114A61	EKMTAC	EKMTAC	EKMTAC
	DTA104A51(2) / DTA104A61(2)				
KRP1B97	KRP4AA93 (16)(17)				
EKRORO5	Standard	Standard	Standard	Standard	Standard
	ERP01A51 (2) (R-32 model only) K-KDU572KVE				

	HXY080-125A8	HXHD125-200A8
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRP1HBAA	-
Demand PCB - Required to connect room thermostat	EKRP1AHTA	-
Remote user interface (remocon) - Same controller as supplied with cascade unit		
can be mounted parallel or on other location. If 2 controllers are installed, the	EKRUAHTB	-
installer needs to select 1 master & 1 slave		
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat - Requires demand PCB EKRP1AHTA	EKRTWA	-
Wireless room thermostat - Requires demand PCB EKRP1AHTA	EKRTR1	-
Remote sensor for room thermostat - Requires demand PCB EKRP1AHTA	EKRTETS	-
Domestic hot water tank - standard		EKHTS200AC
(stacked on top of hydrobox)	-	EKHTS260AC
Domestic hot water tank - with possibility for solar connection	-	EKHWP500B
Solar collector (1)	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station Pump station	-	EKSRPS

		Heat Rec	overy Ventilat	ion - Modular	L (Smart)			
				ALB04,05LBS/	ALB06,07LBS/	VAM	VAM	VAM
		ALB02LB5/KB5	ALB03LBS/RBS	RBS	RBS	150FC9	250FC9	350J
sms	BRC301B61 VAM wired remote control	•	•	•	•	•	•	•
Individual control systems	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•
ividual cc	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•
<u> </u>	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•
<del>,</del>	DCC601A51 intelligent Tablet Controller	•	•	•	•	•	•	•
Centralised control systems	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•
ralised syster	DCS302C51 Central remote control DCS301B51	•	•	•	•	•	•	•
Centi	Unified ON/OFF control DST301B51	•	•	•	•	•	•	•
	Schedule timer	•	•	•	•	•	•	•
it Jard face	DCM601A51 intelligent Touch Manager	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	EKMBDXB Modbus interface	•	•	•	•	•	•	•
Buil lana tem 8	DMS502A51 BACnet Interface	•	•	•	•	•	•	•
N Syst pro	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•
	Coarse 55% (G4)	ALF02G4A	ALF03G4A	ALF05G4A	ALF07G4A			
	ePM <sub>10</sub> 75% (M5)	ALF02M5A	ALF03M5A	ALF05M5A	ALF07M5A			
	ePM <sub>10</sub> 70% (M6)							EKAFVJ50F6
Ñ	ePM <sub>1</sub> 50% (F7)	ALF02F7A	ALF03F7A	ALF05F7A	ALF07F7A			
Filters	ePM, 55% (F7)							EKAFVJ50F7
	ePM <sub>1</sub> 70% (F8)							EKAFVJ50F8
	ePM, 80% (F9)	ALF02F9A	ALF03F9A	ALF05F9A	ALF07F9A			
	High efficiency filter							
	Replacement air filter							
Mechanical accessories	Rail	ALA02RLA	ALA03RLA	ALA05RLA	ALA07RLA			
schar	Rectangular to round duct transition	ALA02RCA	ALA03RC	ALA05RCA	ALA07RCA			
	Separate plenum							
CO <sub>2</sub> sensor		BRYMA200	BRYMA200	BRYMA200	BRYMA200			BRYMA65
Electrical h		ALD02HEFB	ALD03HEFB	ALD05HEFB	ALD07HEFB	GSIEKA10009	GSIEKA15018	GSIEKA20024
	000mm depth)	ALS0290A	ALS0390A	ALS0590A	ALS0790A			
Electrical accessories	Wiring adapter for external monitoring/control (controls 1 entire system)					KRP2A51	KRP2A51	KRP2A51 (2)
cces	Adapter PCB for humidifier					KRP50-2	KRP50-2	KRP1C4 (5)
<u>a</u>	Adapter PCB for third party heater					BRP4A50	BRP4A50	BRP4A50A (4)
ectri	External wired temperature sensor							
Ξ	Adapter PCB Mounting plate							

# Notes

- $(1) Do \ not \ connect \ the \ system \ to \ DIII-net \ devices \ LONWorks \ interface, BACnet \ interface, ...; \ (intelligent \ Touch \ Manager, EKMBDXA \ are \ allowed)$
- (2) Installation box KRP1BB101 needed
- (3) Adapter PCB mounting plate needed, applicable model can be found in the table above
- (4) 3rd party heater and 3rd party humidifier cannot be combined
- (5) Installation box KRP50-2A90 needed
- (6) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)
- (7) Available only with optional plenum

Energy re	covery ventila	tion - VAM				Energy re	covery ventila	tion VKM	Air han	dling unit appl	ications
VAM 500J	VAM 650J	VAM 800J	VAM 1000J	VAM 1500J	VAM 2000J	VKM 50GB (M)	VKM 80GB (M)	VKM 100GB (M)	EKEQ FCBA (1)	EKEQ DCB (1)	EKEQ MCBA (1)
•	•	•	•	•	•						
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EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6 x2						
EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7x2	EKAFVJ100F7x2						
EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2						
						KAF242H80M	KAF242H100M	KAF242H100M			
						KAF241H80M	KAF241H100M	KAF241H100M			
BRYMA65	BRYMA65	BRYMA100	BRYMA100	EKPLEN200 (6) BRYMA200	EKPLEN200 (6) BRYMA200	BRYMA65	BRYMA100	BRYMA200			
GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030	GSIEKA:		3	5	5			
KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
KRP1C4 (5)	KRP1C4 (3/5)	KRP1C4 (5)	KRP1C4 (5)	KRP1C4 (3/5)	KRP1C4 (3/5)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)		WDG	
	EKMP65VAM			EKMI	PVAM					KRCS01-1	

# Individual and centralised controls

	BRC1D*	BRC1E*	BRC1H*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			•				
Electical box KJB111A	•	•	•				
Electical box KJB212A(A) (1)	•	•		•	•		
Electical box KJB311A(A)						•	
Electical box KJB411AA							•

<sup>(1)</sup> recommended as wider (more stable mounting)

# Intelligent Tablet Controller - DCC601A51

		Intelligent Controller					
		Options for local control	Daikin Cloud Service options	Software			
Wired screen for local control	AL-CCD07-VESA-1	•	-	-			
Control and monitoring package		-	•	-			
Remote support and diagnostics package		-	•	-			
Advise and optimisation package		-	•	-			
Commissioning tool		-	-	•			
Software update tool		-	-	•			

Daikin Cloud Service requires a subscription. Contact your local sales representative for more information

# Standard protocol interfaces - DMS502A51

		BACnet Interface
DIII-net expansion board (2 ports), connects up to 128 additional indoor units	DAM411B51	•
Digital pulse inputs (12) for PPD functionality	DAM412B51	•

# Intelligent Touch Manager - DCM601A51

		Intelligent Manager	Daikin Cloud Service options (2)
iTM plus adapter – Allows connection of an additional 64 indoor units/groups. Up to 7 adapters can be connected	DCM601A52	•	
iTM PPD software – Allows distribution of used kWh by indoor units connected to the iTM	DCM002A51	•	
iTM HTTP interface - Allows communication to any third party controller via http interface	DCM007A51	•	
iTM Energy navigator – Energy management option	DCM008A51	•	
iTM BACnet Client option – Enables integration of third party devices to the iTM via the BACnet/IP protocol. (This is not a gateway and cannot replace DMS502A51)	DCM009A51	•	
Property Management System (PMS) interface option - Enables to connect to third party PMS systems	DCM010A51	• Oracle Opera PMS	
Monitoring package			•
Remote support and diagnostics package			•
Advise and optimisation package			•

# WAGO interface options for intelligent Touch Manager

# Required or optional WAGO base modules

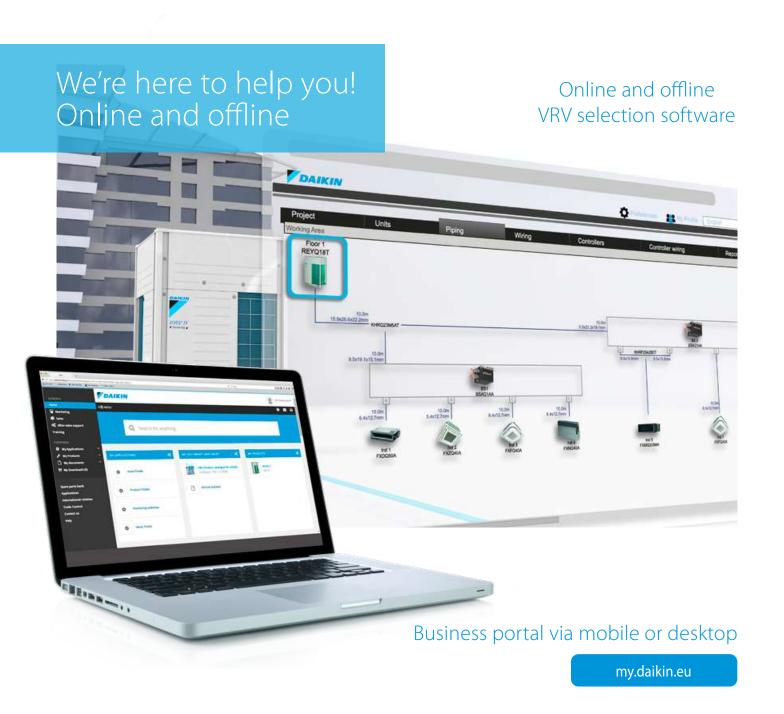
Module type	Model code	Specifications	
24 V DC power supply	787-712	100 to 240 V AC —> 24 V DC, 2.5 A	Required
Communications unit (Bus coupler)	WGDCMCPLR2	RS-485, Max:115.2kbps, not programmable	Required
Connector (1)	750-960		Required
Terminator module	750-600		Required
Power supply module	750-613	IN: 24 V DC, OUT: 5 V DC	Optional

# Supported WAGO I/0 modules

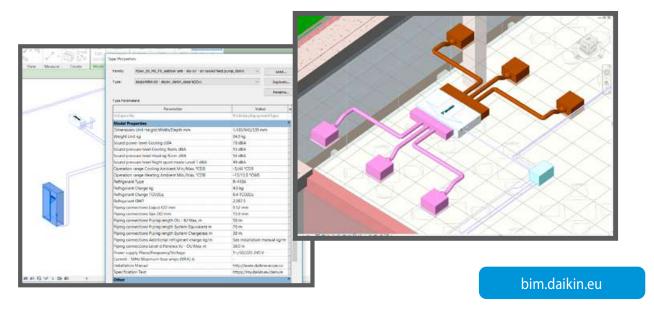
I/0 module type	Model code	Specifications	N° of contacts
Di	750-400	No-voltage contact input Contact rating: 24 V DC / 4.5 mA"	2
	750-432		4
	750-430	No-voltage contact input Contact rating: 24 V DC / 2.8 mA	8
Do	750-513/000-001	No-voltage contact output Contact rating: 230 V AC / 30 V DC, 2 A	2
	750-504	No-voltage contact output Contact rating: 24 V DC / 0.5 A	4
Ai	750-454	Develop Ave 20 or A 12 bit week the	2
	750-455	Rated at 4 to 20 mA: 12-bit resolution	4
	750-479	Rated at -10 to 10 V: 13-bit resolution	2
	750-459	Rated at 0 to 10 V: 12-bit resolution	4
Ao	750-554	Develop Ave 20 or A 42 bit word at	2
	750-555	Rated at 4 to 20 mA: 12-bit resolution	4
	750-560	Rated at -10 to 10 V: 10-bit resolution	2
	750-559	Rated at 0 to 10 V: 12-bit resolution	4
Thermistor	750-461/020-000	NTC20K thermistor	2
	750-461	Dr. 100 /DTD	2
	750-460	Pt 100/RTD	4
	750-461/000-003		2
	750-460/000-003	Pt 1000/RTD	4
	50-461/000-004	Ni 100/RTD	2
	750-461/000-005	N:3000 TV/300/DTD	2
	750-460/000-005	Ni1000 TK6180/RTD	4
Pi	750-638	Minimum pulse width: 1 ms	2

<sup>(1)</sup> This connector must be attached to a communications unit that is connected to the RS485 port (2-pin) of the iTM unit.

<sup>(2)</sup> To connect intelligent Touch Manager to the Daikin Cloud Service, the IoT gateway (EU.SB.5000072) and AC/DC converter (999175A) is needed.



# Full BIM object library available



# TOOS & platforms

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30 years of history	216

# Literature overview

# for professional network

Solutions catalogues:

Reference books:



Reference catalogue Daikin commercial and industrial references

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**Product** profiles:



VRV IV S-series Main benefits, application examples and specs of VRV IV S-series product range



VRV IV i-series Main benefits, application examples and specs of VRV IV i-series product range

207



gmug VRV IV W-series, application examples, technical system design background 209

Water-to-air heat



VRV5 S-Series VRV 5 Main benefits and specs of VRV 5

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**Focus** topics:



Replacement Technolog Clear installer benefits of VRV replacement technology

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Infrastructure cooling Clear installer benefits why to choose Daikin for infrastructure cooling

140



F-gas regulation Details on the F-gas regulation and how Daikin is prepared for the future HVAC-R market 605



L∞P by Daikin Detailed info on L∞P by Daikin where reclaimed refrigerant is reused

223

**Product** flyers:



Mini Sky Air RZAG-A mini Skv Air Alpha-series Main benefits and specs of RZAG-A 146



Low height Sky RZAG-N\* Sky Air Alpha-series Main benefits and specs of the low height RZAG-N\* 147



Low height large Sky RZA-D Sky Air Advance-series Main benefits and specs of the low height . RZA-D\* series

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Madoka Detailed info on BRC1H\* remote control



RTD modbus interface Detailed info on RTD controls and applications

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Product catalogues:



Sky Air Catalogue Detailed technical information & benefits on Sky Air 100



VRV Catalogue Detailed technical information & benefits of the VRV total solution 200



Ventilation Detailed info on Ventilation products

# for your customers

Solutions catalogues:



Commercial Solutions
Daikin offers solutions for commercial applications

100



Green Building Solutions Clear building owner/

investor benefits why to choose Daikin for a green building, with emphasis on BREEAM

216



Maximise your BREEAM score BREEAM categories Overview of how to score BREEAM points with Daikin

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Hotel Solutions Clear building owner/investor

Reference books:



Success Case study Vandervalk hotel case In depth info on the VRV total solution at a Vandervalk hotel

**Product** profiles:



Intelligent Touch Manager Intelligent Touch Manager

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Intelligent Tablet Controller Detailed benefits of Intelligent Tablet Controller

303



Daikin Cloud Serivce Details on the Daikin

Focus topics:



Replacement technology Clear building owner/investor benefits of replacement technology

15-215



Technical documentation:
Download all technical documentation such as engineering databooks, selection software, installation and operation manuals and service manuals directly from our business portal: my.daikin.eu

# Supporting tools, software and apps

www.daikineurope.com/ support-and-manuals/ software-downloads

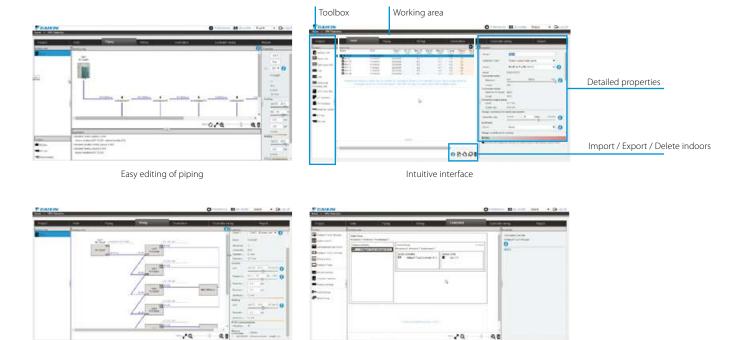
# Web based Xpress selection software

## Making selection easy, anythime, anywhere

- > Web & cloudbased, access to your projects from anywhere, anyplace...
- > Platform (Windows, Mac, ...) and hardware (laptop, desktop, tablet) independent
- > Re-engineered GUI for maximum easy of use
- > No need to do local installation
- No tool updates required (always latest version available)
- > Possibility to copy / share projects



## Main functions



Clear wiring overview, easy to make control groups

Clear overview of control groups and central controls

# Other selection software

## **VRV** Pro

Enables VRV air conditioning systems to be engineered in a precise and economical way, taking into account the complex piping rules. Moreover, it ensures optimum operating cycles and maximum energy efficiency.

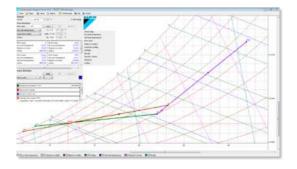
- > Accurate heat load calculation
- > Precize selection based on peak loads
- > Energy consumption indication



## **Ventilation Xpress**

Selection tool for ventilation devices (VAM, VKM). The selection is based on given supply/extract airflows (including fresh up and given ESP of supply/extract ducting:

- > Determines size of electrical heaters
- > Visualisation of psychrometric chart
- > Visualisation of selected configuration
- > Required field settings mentioned in the report



# Webbased ASTRA selection for air handling units

A powerful tool to select the right Air Handling Units for your needs.

- > 3D interface
- > quick selection procedures
- > new print-out possibilities and report shapes



## WAGO selection tool

The WAGO Selection Tool is specifically designed to select the optimal WAGO I/O system for your needs.

- > Easy selection of WAGO materials
- > Material list creation
- > Time saving
- Includes wiring schemes
- Contains commissioning/preset data for



# Plugins and third-party software tools

# Building Information Modelling (BIM) support

- > BIM improves efficiency of design and build phase
- Daikin is among the first to supply a full library of BIM objects for its VRV products



www.daikin.eu/ bim

## **VRV CAD 2D**

- Displays VRV pipe design on a Autocad 2D floorplan
- > Improves project management
- Accurately calculates the pipe dimensions and refnets
- > Determines the outdoor unit size
- > Validates VRV pipe rules
- Accounts for the extra refrigerant charge, including a max room concentration check



http://www. daikineurope. com/autocad/ index.jsp

# Energy simulation and design aid tools

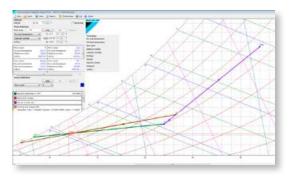
# Seasonal simulator

- The Seasonal Simulator is an innovative software tool that calculates and compares potential seasonal efficiency ratings.
- This user-friendly tool compares various Daikin systems, annual power consumption, CO<sub>2</sub> emissions, and much more, to present an accurate ROI calculation in a matter of minutes.



# Psychrometrics diagram **NEW**

- > The Psychrometrics Diagram Viewer demonstrates the changing properties of moist air.
- > With this tool, users can choose two points with specific conditions, plot them on the diagram and select actions to change the conditions, i.e. heat, cool and mix air.



# Software service tools

# Error code app

Quickly know the meaning of fault codes, for each product family and the potential cause

## **D-Checker**

D-checker is a software application used to record and monitor operation data of Daikin applied, split, Multi-split, Sky-air units, Daikin Altherma LT, ground source heat pump, Hybrid, ZEAS, Conveni-pack & R410A Booster unit

# Bluetooth adaptor **NEW**

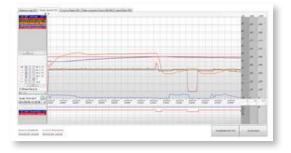
Monitoring of Split, Sky Air and VRV data via any bluetooth device

- > No need to access the outdoor unit
- Connects with D-Checker software (for laptops)
- Connects with monitoring app (for tablets or smartphones)

## **VRV Service-Checker**

- Connected via F1/F2 bus to check multiple systems at the same time
- > Connection of external pressure sensors possible





Diagnosis of the Bluetooth system possible:



# Online support

## **Business portal**

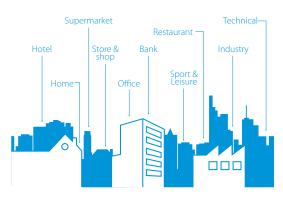
- > Experience our new extranet that thinks with you at my.daikin.eu
- > Find information in seconds via a powerful search
- > Customise the options so you see only info relevant for you
- > Access via mobile device or desktop

# 1 - +1 -+



# Internet

Find our solution for different applications:



- Get more commercial details on our flagship products via our dedicated minisites
- > See our references



www.daikineurope.com/references

# Over 30 years of VRV History



R-22

# 1987

# Introduction the original VRV air conditioning system to Europe, invented by Daikin in 1982

> Up to 6 indoor units connected to 1 outdoor unit



R-407C

# 1998

## Launch inverter series with R-407C

> Up to 16 indoor units connected to 1 outdoor unit



# 2004

## Expand to light commercial sector with VRVII-S

- > Available in 4, 5, 6HP capacities
- > 1 system can be installed in up to 9 rooms



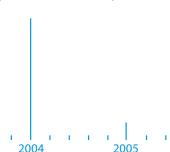
# 2008

# Launch of heat pump optimised for heating (VRV III-C)

- > Extended operation down to -25C
- > 2-stage compressor systems

# 

R-410A



# 1991

# Introduce VRV heat recovery

> Simultaneous cooling and heating



# 2003

## Introduce VRVII-- the first R-410A **VRF** system

Available in cooling, heat pump and heat recovery

> 40 units connected to single refrigerant circuit



# 2005

## **Extends VRVII inverter** range with water cooled VRV-WIII

> Available in heat pump and heat recovery



# 2006-2007

## Launch the extensively re-engineered VRVIII

- > Available in cooling, heat pump and heat recovery
- > Automatic charging and testing
- > Up to 64 units connected to 1 system









#### 2015

#### Launch of VRV IV S-series

- > Most compact unit in the market
- > Widest range in the market



#### Launch of VRV IV i-series

- > The invisible VRV
- > Unique product concept







## 2019

- Launch of VRV IV+ series > New compressor for increased seasonal efficiency
- > Available in heat recovery, heat pump, optimised for heating and water-cooled versions

#### **BLUEVOLUTION**



#### 2020

#### VRV 5 S-series

- > Completely redesign unit for R-32 refrigerant
- > Easier to handle and more flexible to install then ever!

# 2011

#### Launch total solution concept

- > Integrate hot water production and Biddle air curtains into VRV system
- > Connectable to Daikin Emura and Nexura
- > 400,000 outdoors units sold
- > 2.2 million indoor units sold

2011 | 2012 | 2015 | 2019

#### 2010

#### Launch of replacement VRV (VRVIII-Q)

> Upgrade to replace older VRV units using R-22 refrigerant



#### 2012-2014

#### Setting new standards with the launch of VRV IV

- > 28% improved seasonal efficiency
- > Continuous heating on heat pumps
- > Available in heat pump, heat recovery, water-cooled and replacement series





#### 2019

#### Launch of L∞P by Daikin

- > Re-use of existing refrigerant
- > Creating a circular economy of refrigerants





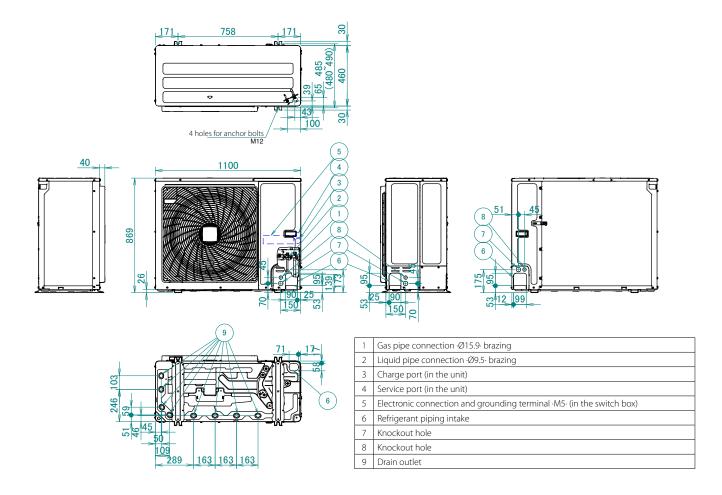
# Technical drawings

Technical drawings	219
Outdoor units	220
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Hot water	294
Biddle air curtains	299
Ventilation	302



#### RXYSA-AV1/AY1

CLICK HERE TO VIEW ALL RXYSA-AVI TECHNICAL DRAWINGS ON MY.DAIKIN.EU



#### 3D127871



#### RXYSA-AV1/AY1



#### Suction side

In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

- When the suction side temperature regularly exceeds this temperature.
- When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.

#### Discharge side

Take refrigerant piping work into account when positioning the units. If your lay out does not match with any of the layouts below, contact your dealer.

Single unit ( ) | Single row of units ( )

				<del>-</del>		,					
	A~E		Hb Hd Hu	(mm)					4		
	/			a	b	С	d	е	ев	e <sub>D</sub>	1 1
	В		-		≥ 100						]
	A,B,C		-	≥ 100(1)	≥ 100	≥ 100					]
	B,E		-		≥ 100			≥ 1000		≤500	]
e <sub>B</sub>	A,B,C,E		-	≥ 150(1)	≥ 150	≥ 150		≥ 1000		≤500	]
e <sub>D</sub>	D		-				≥ 500				]
	D,E		=				≥ 500	≥ 1000	≤500		]
	B,D		Hd>Hu		≥ 100		≥ 500				]
	5,5		Hd≤Hu		≥ 100		≥ 500				
			Hb≤½Hu		≥ 250		≥ 750	≥ 1000	≤500		
HIMI		Hd>Hu	½Hu>Hb≤Hu		≥ 250		≥ 1000	≥ 1000	≤500		
H <sub>D</sub> C I I	B.D.E		Hb>Hu				0				1
	B,D,E		Hd≤½Hu		≥ 100		≥ 1000	≥ 1000		≤500	1
d a		Hd≤Hu	½Hu <hd≤hu< td=""><td></td><td>≥ 200</td><td></td><td>≥ 1000</td><td>≥ 1000</td><td></td><td>≤500</td><td></td></hd≤hu<>		≥ 200		≥ 1000	≥ 1000		≤500	
			Hd>Hu				0				
	A,B,C		-	≥ 200(1)	≥ 300 ≥	1000					
	A,B,C,E		-	≥ 200(1)	≥ 300	≥ 1000		≥ 1000		≤500	]
Δ_	D		=				≥ 1000				
	D,E		-				≥ 1000	≥ 1000	≤500		
l e <sub>D</sub>			Hd>Hu		≥ 300		≥ 1000				
	B,D	Hd≤Hu	Hd≤½Hu		≥ 250		≥ 1500				]
e		1103110	½Hu <hd≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1500</td><td></td><td></td><td></td><td></td></hd≤hu<>		≥ 300		≥ 1500				
			Hb≤½Hu		≥ 300		≥ 1000	≥ 1000	≤500		
		Hd>Hu	½Hu <hb≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1250</td><td>≥ 1000</td><td>≤500</td><td></td><td></td></hb≤hu<>		≥ 300		≥ 1250	≥ 1000	≤500		
2100(1) B			Hb>Hu				0				
100 <sup>(1)</sup> H <sub>B</sub>			Hd≤½Hu		≥ 250		≥ 1500	≥ 1000		≤500	
H <sub>D</sub>	B,D,E		½Hu <hd≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1500</td><td>≥ 1000</td><td></td><td>≤500</td><td>1+2</td></hd≤hu<>		≥ 300		≥ 1500	≥ 1000		≤500	1+2
a		Hd≤Hu	Hd>Hu				0				

(1) For better serviceability, use a distance ≥250 mm

A,B,C,D Obstacles (walls/baffle plates)

E Obstacle (roof)

a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E

 $e_B$  Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B  $e_D$  Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D

Hu Height of the unit

Hb,Hd Height of obstacles B and D

1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction

side through the bottom of the unit.

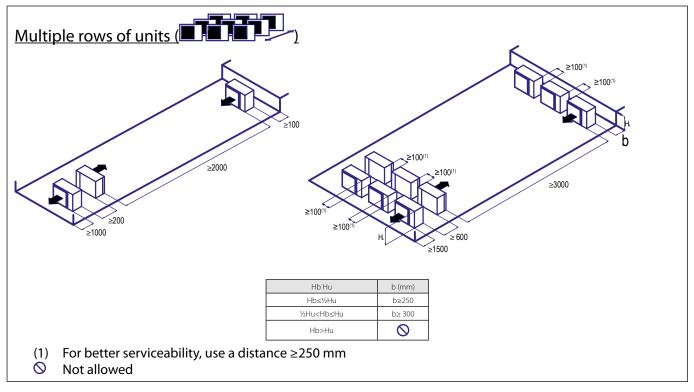
2 Maximum two units can be installed.

Not allowed

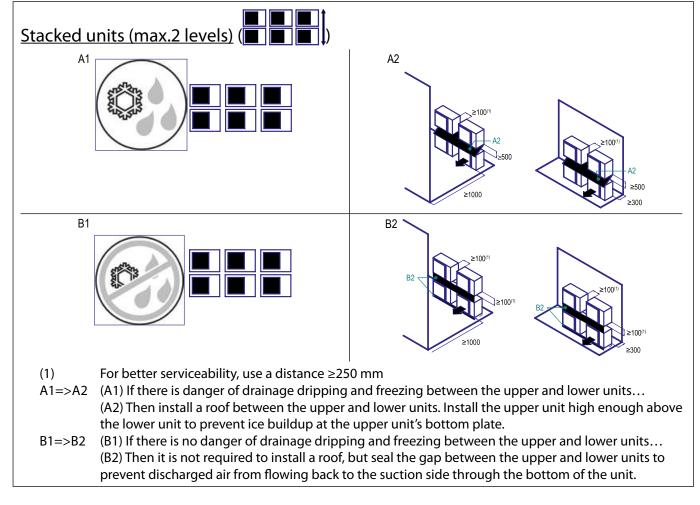


#### RXYSA-AV1/AY1

## Multiple rows of units (

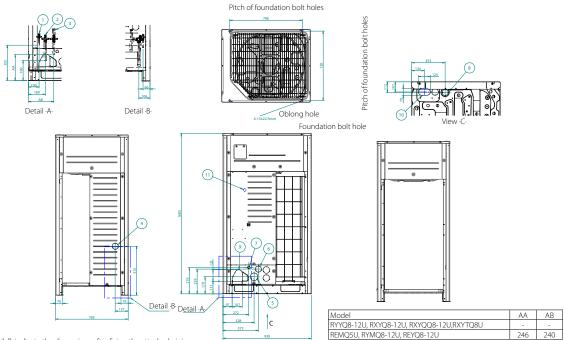






#### REMQ5U / REYQ8-12U / RXYQQ8-12U / RXYQ8-12U / RYYQ8-12U / RYMQ8-12U / RXYTQ8UYF

CLICK HERE TO VIEW ALL RYYQ-U TECHNICAL DRAWINGS



1. Detail  $\cdot A \cdot$  and detail  $\cdot B \cdot$  indicate the dimensions after fixing the attached piping. 2. Items -4 - 10: Knockout hole.

NOTES

3. Gas pipe RYYQ8U, RYMQ8U, RXYQ8U, RXYQQ8U, RXYTQ8U: RYYQ10U, RYMQ10U, RXYQQ10U, RXYQQ10U: REMQ5U, REYQ8-12U:

RYYQ12U, RYMQ12U, RXYQ12U; Liquid pipe RYYQ8-10U, RYMQ8-10U, RXYQ8-10U, RXYQQ8-10U,

REMQ5U, REYQ8-12U, RXYTQ8U: RYYQ12U, RYMQ12U, RXYQ12U, RXYQQ12U:

Equalising pipe RYMO8-10U: RYMQ12U:

High pressure/low pressure gas pipe REMQ5U, REYQ8-12U:

Ø·19.1· brazing connection Ø·22.2· brazing connection Ø·25.4· brazing connection

Ø ·28.6· brazing connection

Ø ·9.5· brazing connection Ø ·12.7· brazing connection

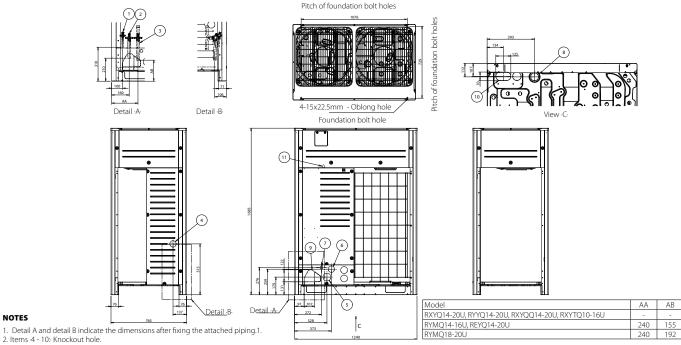
Ø ·19.1 · brazing connection Ø ·22.2 · brazing connection

Ø ·19.1· brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note ·3·.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note ·3·. See note ·3·.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (·M8·)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119001

#### REYQ14-20U / RXYQQ14-20U / RXYQ14-20U / RYYQ14-20U / RYMQ14-20U / RXYTQ10-16UYF



3. Gas pipe RXYTQ10U: REYQ14-20U: RYYQ14-20U, RYMQ14-20U, RXYQ14-20U, RXYQQ14-20U, RXYTQ12-16U:

Liquid pipe RXYTQ10U: RYYQ14-16U, RYMQ14-16U, RXYQ14-16U, RXYQQ14-16U, REYQ14-20U, RXYTQ12-16U: RYYQ18-20U, RYMQ18-20U, RXYQ18-20U, RXYQQ18-20U:

Equalising pipe RYMQ14-16U: RYMQ18-20U:

High pressure/low pressure gas pipe REYQ14-20U:

Ø 22.2 brazing connection Ø25.4 brazing connection

Ø28.6 brazing connection

Ø9.5 brazing connection

Ø12.7 brazing connection

Ø15.9 brazing connection

Ø22.2 brazing connection Ø28.6 brazing connection

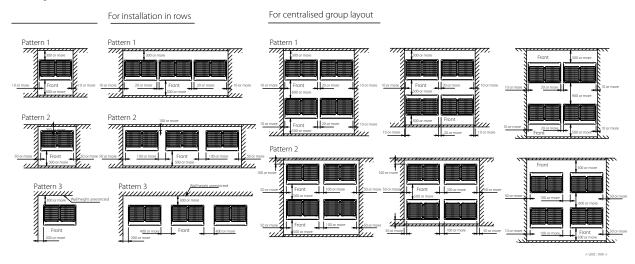
Ø22.2 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note 3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119091

#### REMQ-U / REYQ-U / RXYQQ-U / RXYQ-U / RYYQ-U / RYMQ-U / RXYTQ-UYF

For single unit installation



#### NOTES

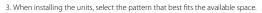
1. Height of the walls in case of patterns 1 and 2: Front: 1500mm Suction side: 500mm Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35  $^{\circ}\text{C}$  (outdoor temperature).

When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.

- $2. \ If the walls are higher than mentioned above, then additional service space is needed:\\$ 

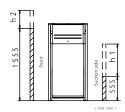
  - suction side: service space + h1/2 front side: service space + h2/2



Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely.

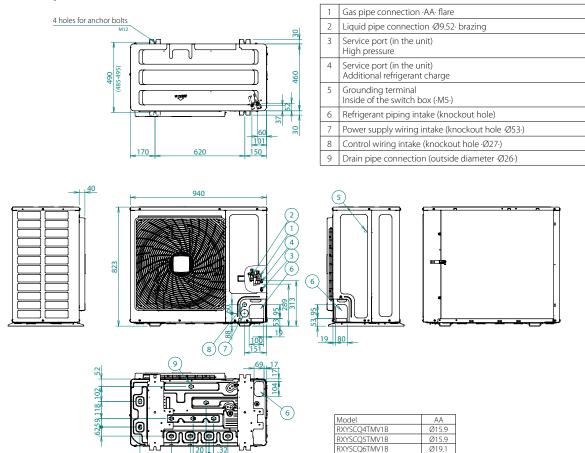
If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.





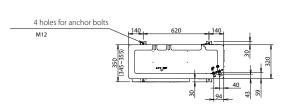
3D118467

#### **RXYSCQ-TV1**

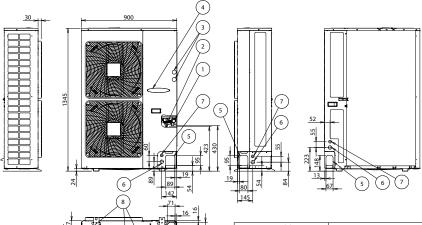


#### 3D098107A

#### **RXYSQ-TV9/TY9**



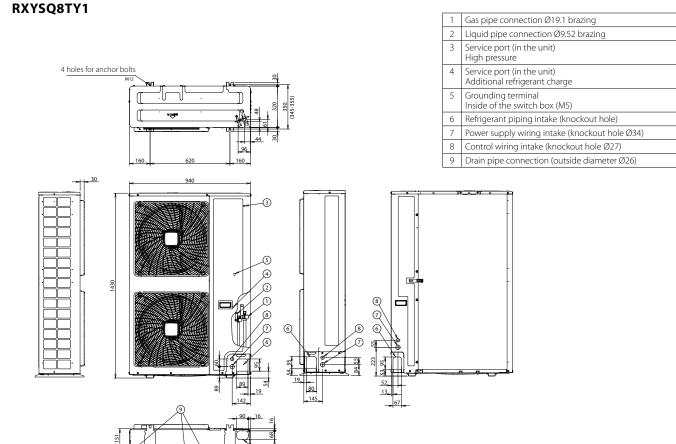
1 Gas pipe connection A
2 Liquid pipe connection Ø9.5 flare
3 (2X) Service port (in the unit)
4 Electronic connection and grounding terminal M5 (in the switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knockout hole Ø34)
7 Control wiring intake (knockout hole Ø27)
8 Drain outlet



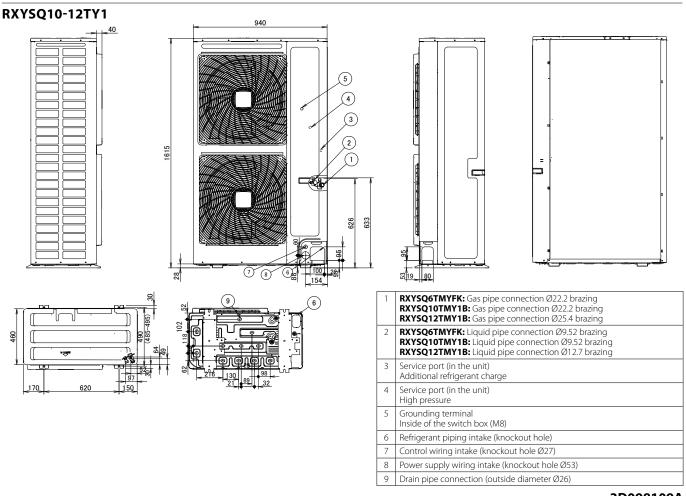
Iviodei	A	
RMXS112E8V1B	Ø19.1 brazed connection	
RMXS140E8V1B	Ø19.1 brazed connection	
RMXS160E8V1B	Ø19.1 brazed connection	
RXYSQ4PA7V1B	Ø15.9 flared connection	
RXYSQ5PA7V1B	Ø15.9 flared connection	
RXYSQ6PA7V1B	Ø19.1 brazed connection	
ERX100A9V1B	Ø15.9 flared connection	
ERX125A9V1B	Ø15.9 flared connection	
ERX140A9V1B	Ø19.1 brazed connection	
GCA100BD4	Ø15.9 flared connection	
GCA125BD4	Ø15.9 flared connection	
GCA140BD4	Ø19.1 brazed connection	
RXYSQ4PA7Y1B	Ø15.9 flared connection	
RXYSQ5PA7Y1B	Ø15.9 flared connection	
RXYSQ6PA7Y1B	Ø19.1 brazed connection	

Model	A		
	RA indoor unit	VRV indoor unit	
RXYSQ4(P8/T7/T8)V(1)B	Ø19.1 brazed connection	Ø15.9 flared connection	
RXYSQ5(P8/T7/T8)V(1)B	Ø19.1 brazed connection	Ø15.9 flared connection	
RXYSQ6(P8/T7/T8)V(1)B	Ø19.1 brazed connection		
RXYSQ4(P8/T7/T8)Y(1)B	Ø19.1 brazed connection	Ø15.9 flared connection	
RXYSQ5(P8/T7/T8)Y(1)B	Ø19.1 brazed connection	Ø15.9 flared connection	
RXYSQ6(P8/T7/T8)Y(1)B	Ø19.1 brazed connection		





#### 3D098108



# CLICK HERE TO VIEW ALL RXYSCQ-TVI TECHNICAL DRAWINGS ON MY.DAIKIN.EU

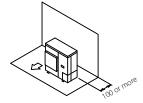
#### **RXYSCQ-TV1**

#### Required installation space

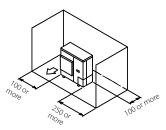
The unit of the values is mm.

# 1. Where there is an obstacle on the suction side: (a) No obstacle above

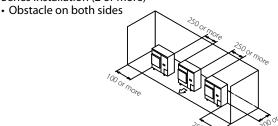
- (1) Stand-alone installation
  - Obstacle on the suction side only



· Obstacle on both sides

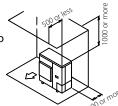


(2) Series installation (2 or more)

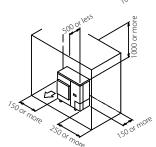


#### (b)Obstacle above, too

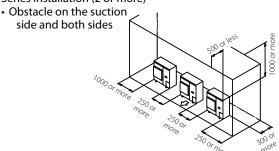
- (1) Stand-alone installation
  - Obstacle on the suction side, too



 Obstacle on the suction side and both sides

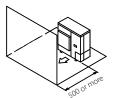


(2) Series installation (2 or more)

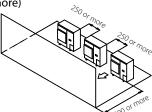


# 2. Where there is an obstacle on the discharge side: (a) No obstacle above

(1) Stand-alone installation

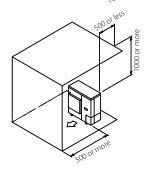


(2) Series installation (2 or more)

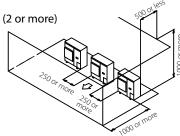


(b)Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more)



## 3. Where there are obstacles on both suction and discharge sides:

#### Pattern 1

Where the obstacles on the discharge side is higher than the unit:
(There is no height limit for obstructions on the intake side.)

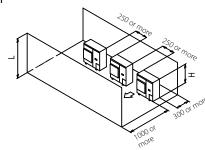
(a) No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more)







#### **RXYSCQ-TV1**

#### (b)Obstacle above, too

(1) Stand-alone installation

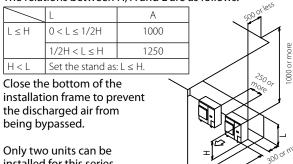
The relations between H, A and L are as follows:

	L	А	] \
L≤H	0 < L ≤ 1/2H	750	]
	1/2H < L ≤ H	1000	]
H < L	Set the stand as	: L ≤ H.	
installa	he bottom of to tion frame to p charged air fro	orevent	

being bypassed.

(2) Series installation (2 or more)

The relations between H, A and L are as follows:



installed for this series.

#### Pattern 2

Where the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

#### (a) No obstacle above

(1) Stand-alone installation



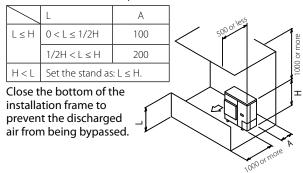
(2) Series installation (2 or more) The relations

are as follows.	and L	$\leq$		
L	А		` ]	*\#\\\
0 < L ≤ 1/2H	250			
1/2H < L ≤ H	300	]		1,000 01
		_		10-16

#### (b)Obstacle above, too

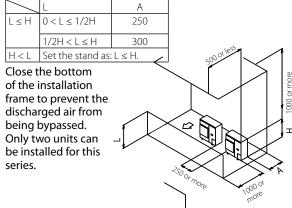
(1) Stand-alone installation

The relations between H, A and L are as follows.



(2) Series installation

The relations between H, A and L are as follows.

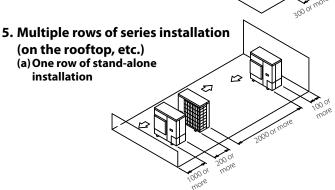


4. Double-decker installation (a) Obstacle on the discharge side

Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.

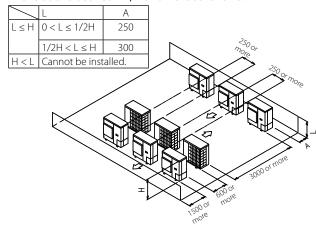
#### (b) Obstacle on the suctions side

Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



#### (b) Rows of series installation (2 or more)

The relations between H, A and L are as follows.



<HEAT PUMP AIR CONDITIONER> **INVERTER TYPE** 

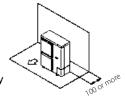
#### **RXYSQ-TV9/TY9**

#### Required installation space

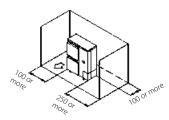
The unit of the values is mm.

## (A) When there are obstacles on suction sides

- No obstacle above
  - 1) Stand-alone installation
    - · Obstacle on the suction side only

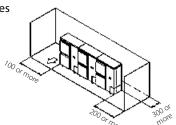


· Obstacle on both sides

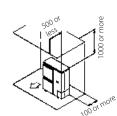


(2) Series installation (2 or more)

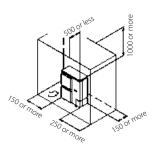
Obstacle on both sides



- Obstacle above, too
  - 1) Stand-alone installation
    - Obstacle on the suction side, too

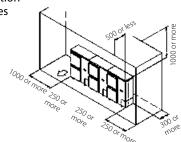


 Obstacle on the suction side, and both sides



(2) Series installation (2 or more)

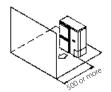
Obstacle on the suction side, and both sides



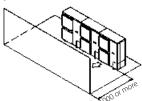
## (B) When there are obstacles on discharge sides

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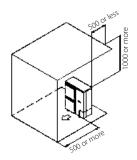
- No obstacle above
  - (1) Stand-alone installation



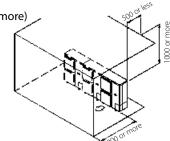
(2) Series installation (2 or more)



- Obstacle above, too
- (1) Stand-alone installation



(2) Series installaton (2 or more)



#### (C) When there are obstacles on both suction and discharge sides

#### Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

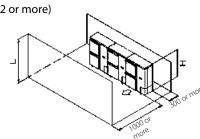
No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more)





#### RXYSQ-TV9/TY9

#### • Obstacle above, too

**CLICK HERE** TO VIEW ALL

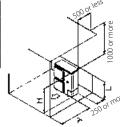
DRAWINGS ON MY.DAIKIN.EU

RXYSQ-TV9 TECHNICAL

(1) Stand-alone installation The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	750
	1/2H < L ≤ H	1000
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

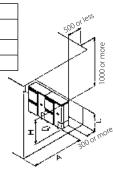


(2) Series installation (2 or more) The relations between H, A and L are as follows:

	L	А		
L≤H	0 < L ≤ 1/2H	1000		
	1/2H < L ≤ H	1250		
H < L	Set the stand as			
Close the bottom of the installation frame to prevent the discharged air from				

Only two units can be installed for this series.

being bypassed.



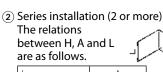
#### Pattern 2

When the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)



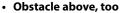
(1) Stand-alone installation





are as iollows.	
L	А
0 < L ≤ 1/2H	250
1/2H < L ≤ H	300
1/2H < L ≤ H	300

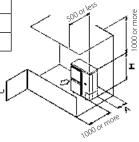




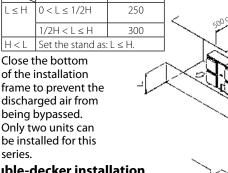
(1) Stand-alone installation The relations between H, A and L are as follows.

	The relations between 11,71 and 2			
	L	А		
L≤H	0 < L ≤ 1/2H	100		
	1/2H < L ≤ H	200		
$H < L$ Set the stand as: $L \le H$ .				
Class the bestern of the				

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



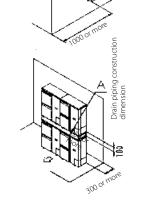
(2) Series installation The relations between H, A and L are as follows.



(D) Double-decker installation

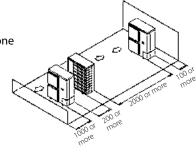
(1) Obstacle on the discharge side Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.

(2) Obstacle on the suctions side Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



(E) Multiple rows of series installation (on the rooftop, etc.)

(1) One row of stand-alone installation



(2) Rows of series installation (2 or more) The relations between H, A and L are as follows.

			•
	L	Α	
L≤H	0 < L ≤ 1/2H	250	
	1/2H < L ≤ H	300	
H < L	Cannot be inst	talled.	<u> </u>
	K		

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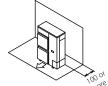
#### RXYSQ8TY1

Required installation space

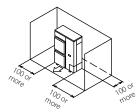
The unit of the values is mm.

## 1. Where there is an obstacle on the suction side: (a) No obstacle above

- (1) Stand-alone installation
  - · Obstacle on the suction side only

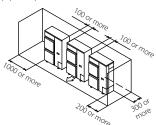


· Obstacle on both sides



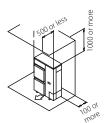
(2) Series installation (2 or more) (note)

• Obstacle on both sides

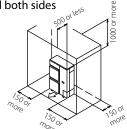


#### (b)Obstacle above, too

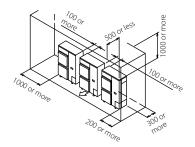
- (1) Stand-alone installation
  - Obstacle on the suction side, too



• Obstacle on the suction side and both sides

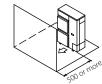


- (2) Series installation (2 or more) (note)
  - · Obstacle on the suction side and both sides

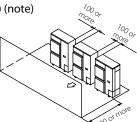


## 2. Where there is an obstacle on the discharge side: (a) No obstacle above

(1) Stand-alone installation

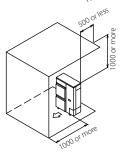


(2) Series installation (2 or more) (note)

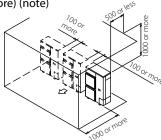


(b)Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more) (note)



## 3. Where there are obstacles on both suction and discharge sides:

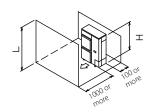
Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

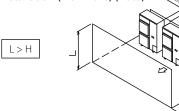
(a) No obstacle above

(1) Stand-alone installation





(2) Series installation (2 or more) (note)





#### RXYSQ8TY1

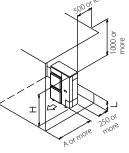
#### (b)Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



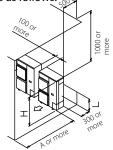
(2) Series installation (2 or more) (note)

The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

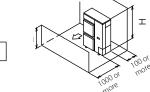


#### Pattern 2

Where the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

#### (c) No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more) (note)
The relations between H, A and L are as follows.

 $\mathsf{L} \leq \mathsf{H}$ 

L	А	nore
0 < L ≤ 1/2H	250	·
1/2H < L ≤ H	300	100 or
		T T T T T T T T T T T T T T T T T T T

#### (d)Obstacle above, too

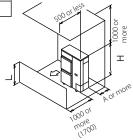
(1) Stand-alone installation

The relations between H, A and L are as follows.

	L	А
L≤H	0 < L ≤ 1/2H	100
	1/2H < L ≤ H	200
H < L	Set the stand as: $L \le H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceed the figure in the ( ), then it's no need to set the stand.



(2) Series installation (note)

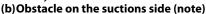
The relations between H, A and L are as follows.

$ \begin{array}{c cccc} L \leq H & 0 < L \leq 1/2H & 25 \\ \hline & 1/2H < L \leq H & 30 \\ \hline & H < L & Set the stand as: L \leq H. \\ \hline \\ \textbf{Close the bottom of the} \\ \end{array} $	50000					
$H < L$ Set the stand as: $L \le H$ . Close the bottom of the	00000					
Close the bottom of the						
	H <     Set the stand as:   < H					
prevent the discharged air from being bypassed.	Close the bottom of the installation frame to prevent the discharged air from being bypassed. Only two units can be installed for this series.					

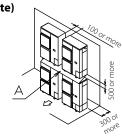
4. Double-decker installation
(a) Obstacle on the discharge side (note)

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit. Set the board (field supply) as the detail A between two units to prevent the drainage from frozing. Leave the enough space between the layer one and the board.



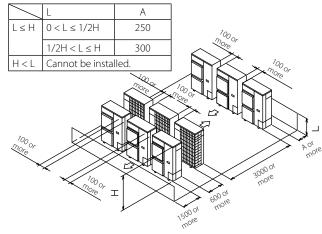
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit. Set the board (field supply) as the detail A between two units to prevent the drainage from frozing. Leave the enough space between the layer one and the board.





#### (b) Rows of series installation (2 or more)

The relations between H, A and L are as follows.



#### **OUTDOOR UNIT FOR VRV SYSTEM**

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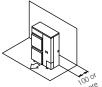
#### RXYSQ10-12TY1

Required installation space

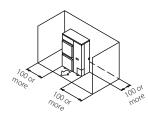
The unit of the values is mm.

#### 1. Where there is an obstacle on the suction side: (a) No obstacle above

- (1) Stand-alone installation
  - · Obstacle on the suction side only

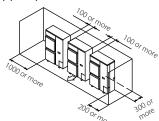


· Obstacle on both sides



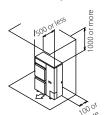
(2) Series installation (2 or more) (note)

· Obstacle on both sides

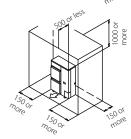


#### (b)Obstacle above, too

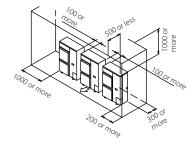
- (1) Stand-alone installation
  - Obstacle on the suction side, too



• Obstacle on the suction side and both sides



- (2) Series installation (2 or more) (note)
  - · Obstacle on the suction side and both sides

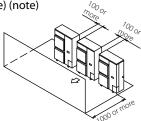


#### 2. Where there is an obstacle on the discharge side: (a) No obstacle above

(1) Stand-alone installation

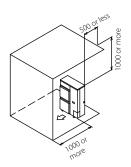


(2) Series installation (2 or more) (note)

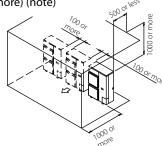


#### (b)Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more) (note)



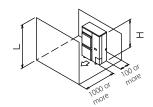
#### 3. Where there are obstacles on both suction and discharge sides:

Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

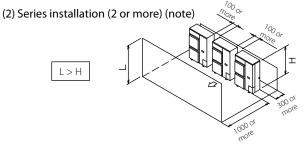
(a) No obstacle above

(1) Stand-alone installation



L > H

L > H





#### RXYSQ10-12TY1

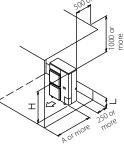
#### (b)Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



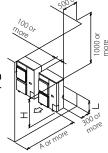
(2) Series installation (2 or more) (note)

The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

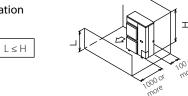


#### Pattern 2

Where the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

#### (c) No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more) (note) The relations between H, A and L are as follows.

L	А	100 or 200re
0 < L ≤ 1/2H	250	l ×/
1/2H < L ≤ H	300	100 or
		T T T T T T T T T T T T T T T T T T T

#### (d)Obstacle above, too

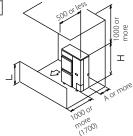
(1) Stand-alone installation

The relations between H, A and L are as follows.

	L	А
L≤H	0 < L ≤ 1/2H	100
	1/2H < L ≤ H	200
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceed the figure in the ( ), then it's no need to set the stand.



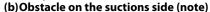
(2) Series installation (note)

The relations between H, A and L are as follows.

	L	А	]
L≤H	0 < L ≤ 1/2H	250	J. 5. 1
	1/2H < L ≤ H	300	500 or less
H < L	Set the stand as:	L≤H.	
installathe disbeing only twinstalled of the configure	the bottom of the tion frame to percharged air from the top seed.  If you want the time the time the time the time the time the time the time the time the time the time the time the time the time the time time the time time time time time time time tim	orevent m s. I the n it's no	100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of more 100 of

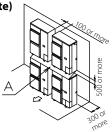
4. Double-decker installation
(a) Obstacle on the discharge side (note)

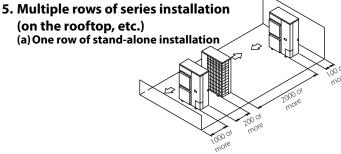
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit. Set the board (field supply) as the detail A between two units to prevent the drainage from frozing. Leave the enough space between the layer one and the board.



Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharge air from being bypassed.
Do not stack more than two unit.
Set the board (field supply) as the detail A between two units to pre-

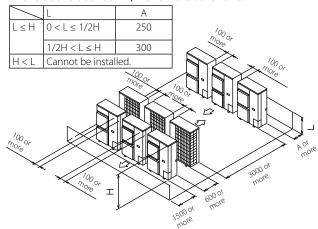
vent the drainage from frozing. Leave the enough space between the layer one and the board.



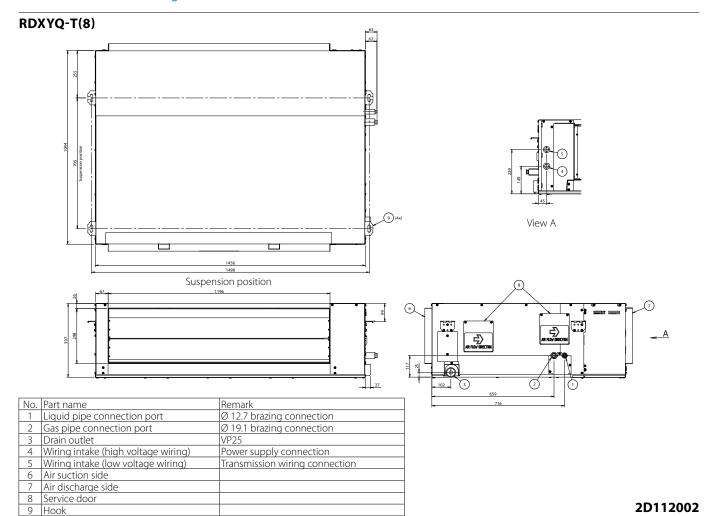


#### (b) Rows of series installation (2 or more)

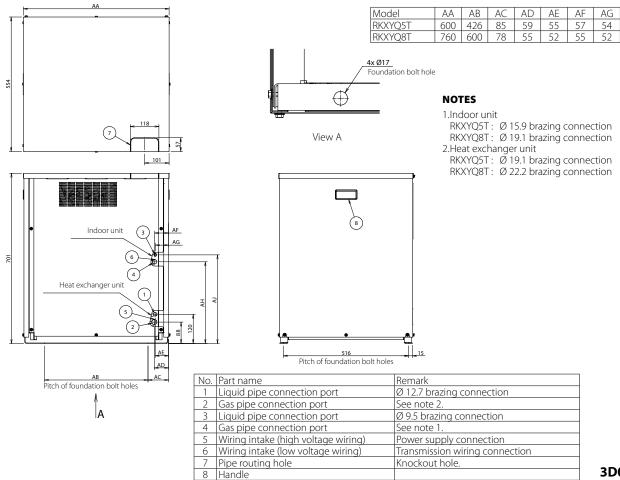
The relations between H, A and L are as follows.



**OUTDOOR UNIT FOR VRV SYSTEM** 



#### RKXYQ-T(8)

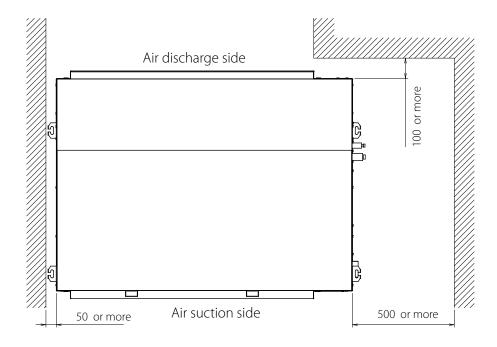


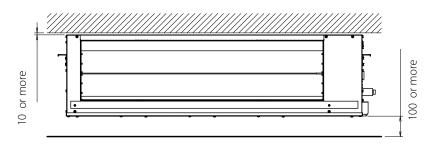
AΗ

337 365



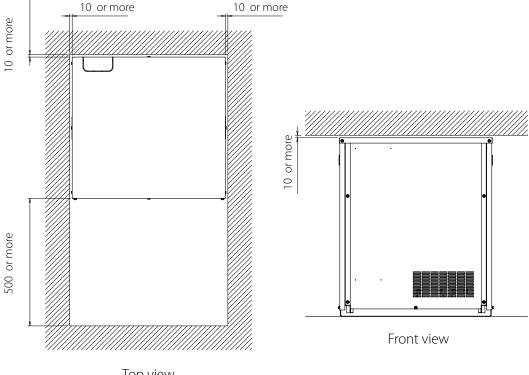
#### RDXYQ-T(8)





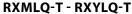
3D098834

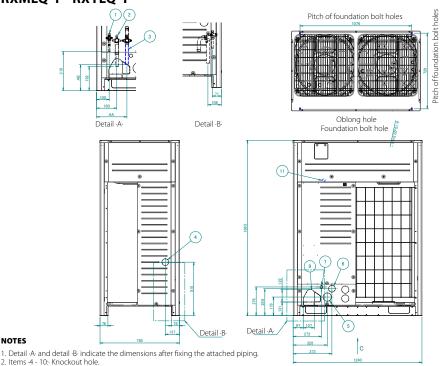
#### RKXYQ-T(8)

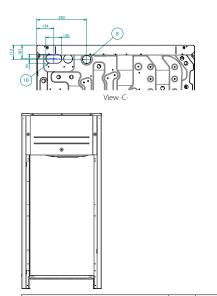


Top view









#### Model RYMQ14-16T, RXYQQ14-16T, REYQ14-20T 240

#### NOTES

- 2. Items 4 10: Knockout hole.
  3. Gas pipe
  RXMLQ8T:

- RXYTQ10T, RXYLQ10T: REYQ14-20T: RYYQ14-20T, RYMQ14-20T, RXYQ14-20T,
- RXYQQ14-20T, RXYTQ12-16T, RXYLQ12-14T: Liquid pipe RXYTQ10T, RXMLQ8T, RXYLQ10T:

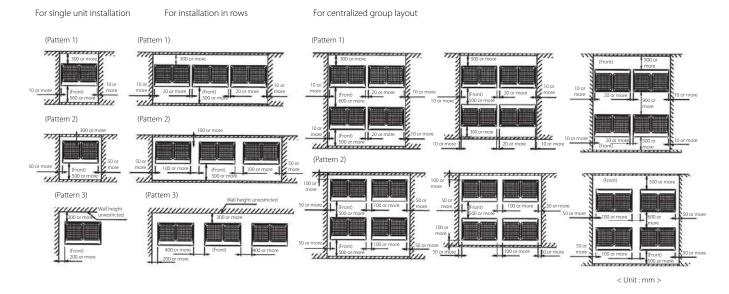
- RYYQ14-16T, RYMQ14-16T, RXYQ14-16T, RXYQQ14-16T, REYQ14-20T, RXYTQ12-16T, RXYLQ12-14T:
  RYYQ18-20T, RYMQ18-20T, RXYQ18-20T, RXYQQ18-20T:
- Equalising pipe RYMQ14-16T: RYMQ18-20T
- High pressure/low pressure gas pipe REYQ14-20T:

- Ø 19.1 brazing connection Ø 22.2 brazing connection Ø 25.4 brazing connection
- Ø 28.6 brazing connection  $\emptyset$  9.5 brazing connection
- Ø 12.7 brazing connection Ø 15.9 brazing connection
- Ø 22.2 brazing connection Ø 28.6 brazing connection
- Ø 22.2 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	See note ·3·.
2	Gas pipe connection port	See note ·3·.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note ·3·.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (-M8-)

2D079533E

#### **RXMLQ-T-RXYLQ-T**

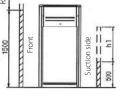


- 1. Heights of walls in case of patterns 1 and 2:
- Front: 1500mm
- Suction side: 500mm
  Suction side: 500mm
  Side: Height unrestricted
  Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
  When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.

  2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in
- the figure on the right.

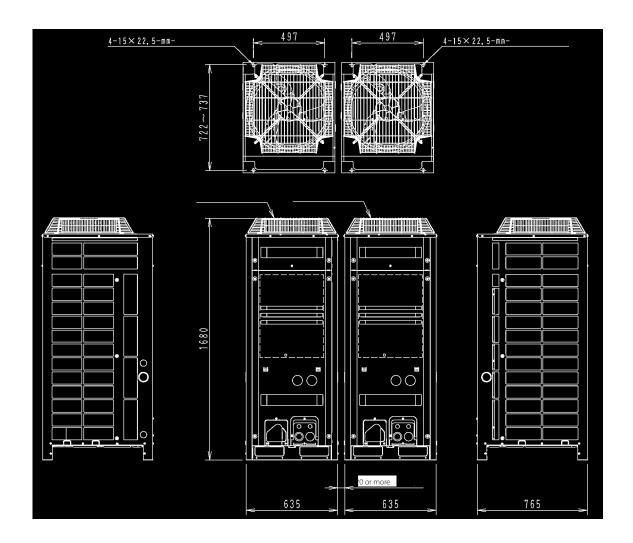
  3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available. Always keep in mind the need to leave enough space for a person to pass between units and wall and also for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).

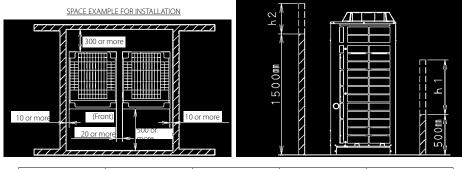
  4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.





#### RQCEQ280P3





Unit:mm

Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	
RQCEQ280P	RQCEQ280P RQEQ140P		RQEQ140P	3D066441	

#### NOTES

1. Heights of walls

Front: 1500mm Suction side: 500mm

Side: Height unrestricted

The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C. The installation space of suction side shown above must be expanded in the following case.

- Design outdoor temperature becomes over 35°C.

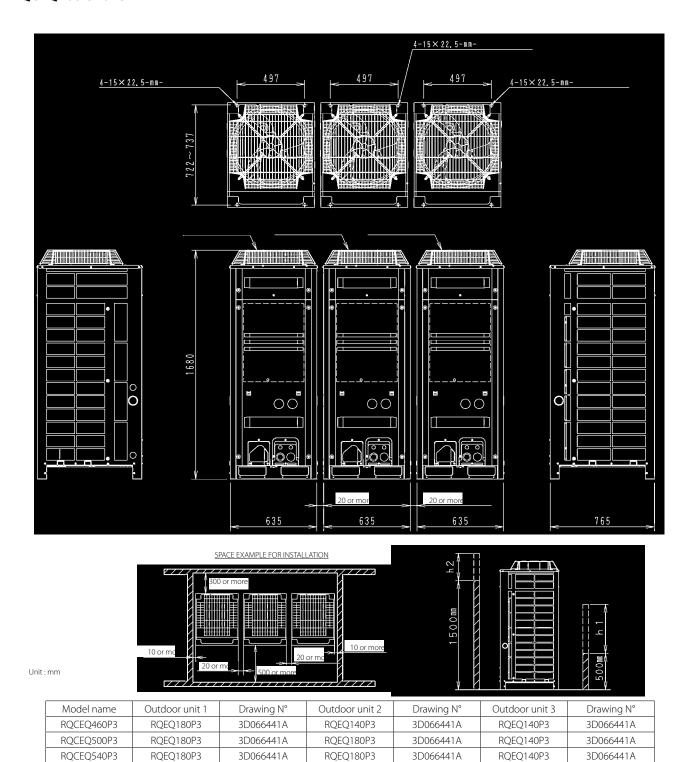
- Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.

3. When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)

4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.

# CLICK HERE TO VIEW ALL RQCEQ-P3 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### RQCEQ460-540P3

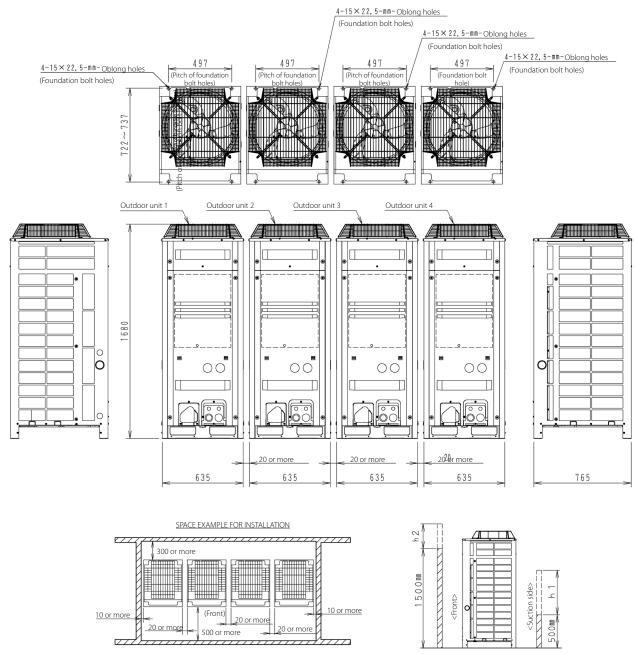


- 1. Heights of walls
- Front: 1500mm
- Suction side: 500mm
- Side: Height unrestricted
- The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C. The installation space of suction side shown above must be expanded in the following case.
- Design outdoor temperature becomes over 35°C.

- Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
  2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- 3. When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.



#### RQCEQ721-816P3



Unit:mm

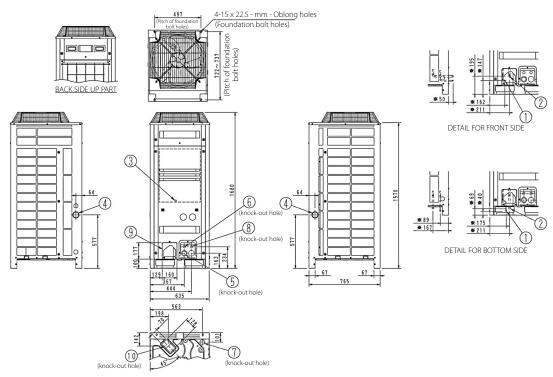
Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	Outdoor unit 3	Drawing N°	Outdoor unit 4	Drawing N°
RQCEQ712P3	RQEQ212P3	3D066441A	RQEQ180P3	3D0664413	RQEQ180PA	3D066441A	RQEQ140P3	3D066441A
RQCEQ744P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ180PA	3D066441A	RQEQ140P3	3D066441A
RQCEQ816P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ212PA	3D066441A	RQEQ180P3	3D066441A

- 1. Heights of walls
- Front: 1500mm Suction side: 500mm
- Side: Height unrestricted
- The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C. The installation space of suction side shown above must be expanded in the following case.
- Design outdoor temperature becomes over 35°C.

- Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
  2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- 3. When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.

# CLICK HERE TO VIEW ALL RQYQ-P TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### RQYQ140P



No.	Part name	Remark
1	Liquid pipe connection port	ø9.5 Brazing connection
2	Gas pipe connection port	See note 3.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (bottom)	ø50
8	Wire routing hole (front)	ø27
9	Pipe routing hole (front)	See note 2.
10	Pipe routing hole (bottom)	See note 2.

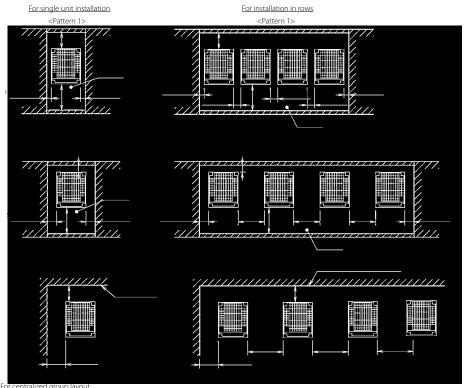
#### NOTES

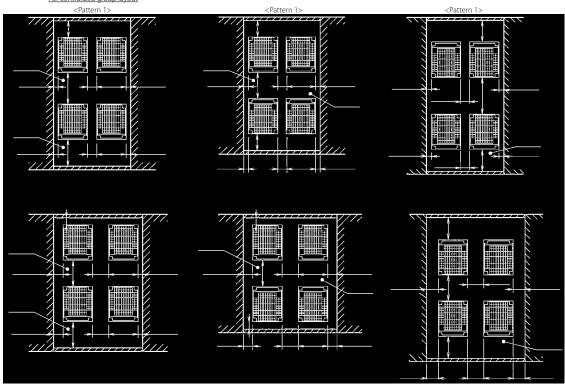
- 1. \*\* shows the dimensions after fixing the accessory pipes.
  2. For piping connection method (front and bottom sides) see the installation manual.
  3. Gas pipe
  ø15.9 Brazing connection: RQYQ140P3

3D066442



#### RQYQ140P





#### **NOTES**

1. Heights of walls in case of patterns 1 and 2:

Front: 1500mm

Suction side: 500mm

Side: Height unrestricted

Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.

- 2.If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service
- spaces respectively as shown in the figure on the right.

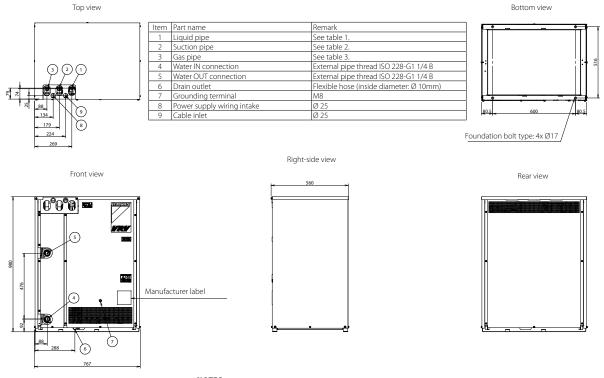
  3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely..
- (If more units are to be installed than are catered for in the above patterns your layout should take account of the
- possibility of short circuits).
  4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



< Unit : mm >



#### **RWEYQ-T9**



NOTES

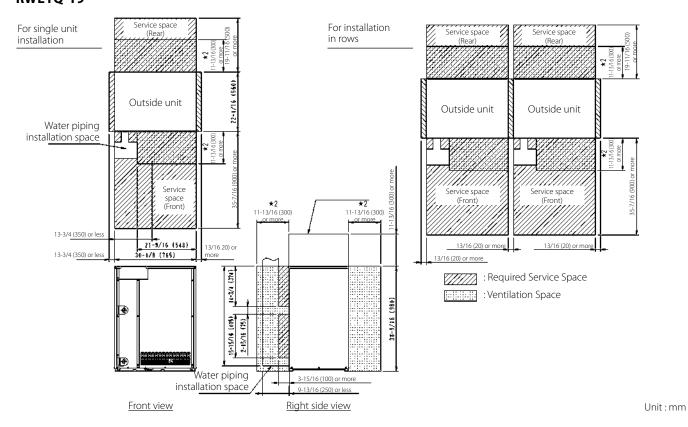
- 1. The grounding terminal is located in the switch box.
- 2. The pipe connections are brazed connections.
- 3. In case of a heat pump, the suction pipe is not used.

Table 1

Model	RWEYQ8T9		RWEYQ10T9		RWEYQ12T9		RWEYQ14T9	
Operation mode	Heat pump	Heat recovery	Heat pump	Heat recovery	Heat pump	Heat recovery	Heat pump	Heat recovery
Liquid pipe	Ø 9.5		Ø 9.5		Ø 12.7		Ø 12.7	
Suction pipe		Ø 19.1		Ø 22.2		Ø 28.6		Ø 28.6
Gas pipe (high/low pressure)	Ø 19.1	Ø 15.9	Ø 22.2	Ø 19.1	Ø 28.6	Ø 19.1	Ø 28.6	Ø 22.2

2D108932A

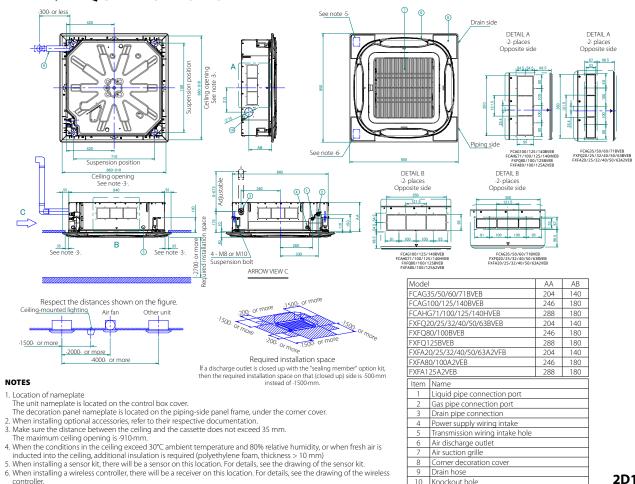
#### **RWEYQ-T9**



- $\bigstar$  1. This space is necessary when refrigerant piping is connected to the top of the unit.
- $\star$  2. This ventialition space is necessary when heat rejection cancellation (Zero energy sissipation) is not active.

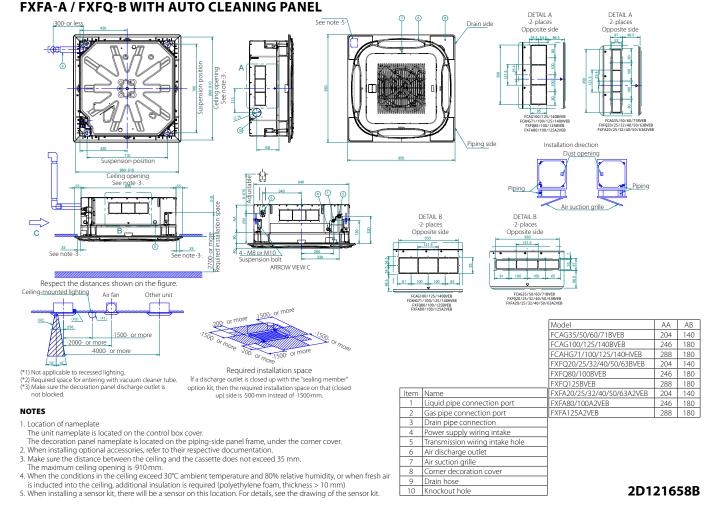


#### **FXFA-A / FXFQ-B WITH STANDARD PANEL**



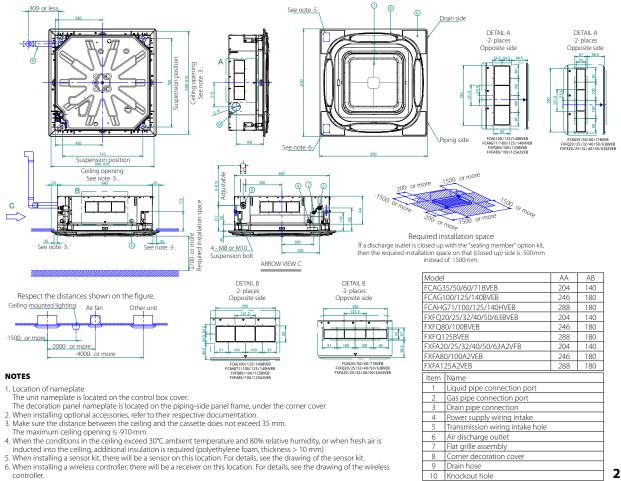
ristalling a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless er.

2D121655B



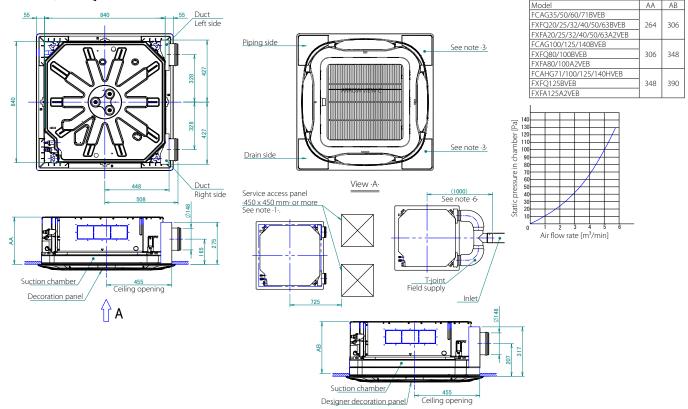


#### **FXFA-A / FXFQ-B WITH DESIGNER PANEL**



2D121703B





- When installing a fresh air intake kit, provide a service access panel.
- Field construction
- This corner discharge outlet needs to be closed.
   When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
   The intake air flow rate is recommended to be ≤20% of the air flow rate at high fan speed.
- If the intake air flow rate is too large, the operating sound may increase, and the detection of the indoor unit suction temperature may be affected.

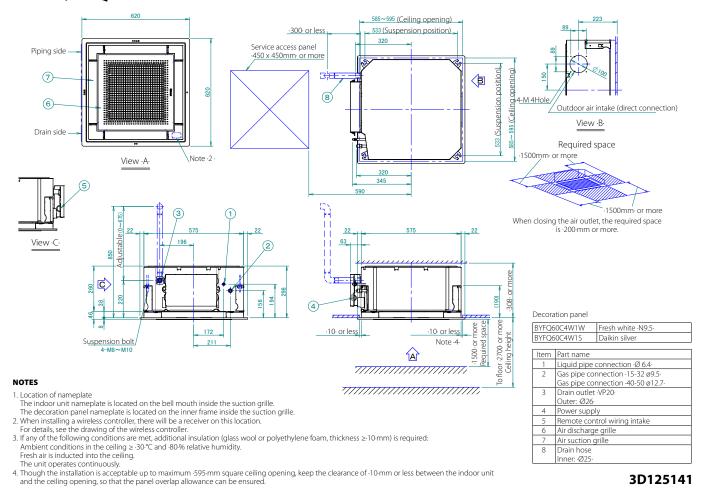
  6. This indicates the distance between the T-joint inlet and the indoor unit inlet when the T-tube is connected.

Air discharge grille Air suction grille Drain hose

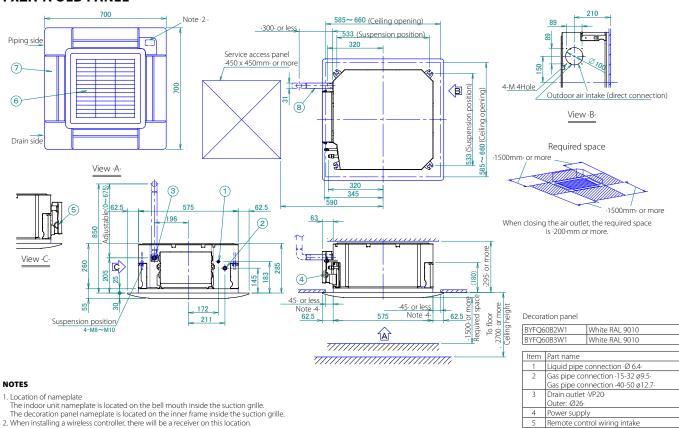
3D125613



#### **FXZA-A / FXZQ-A NEW PANEL**

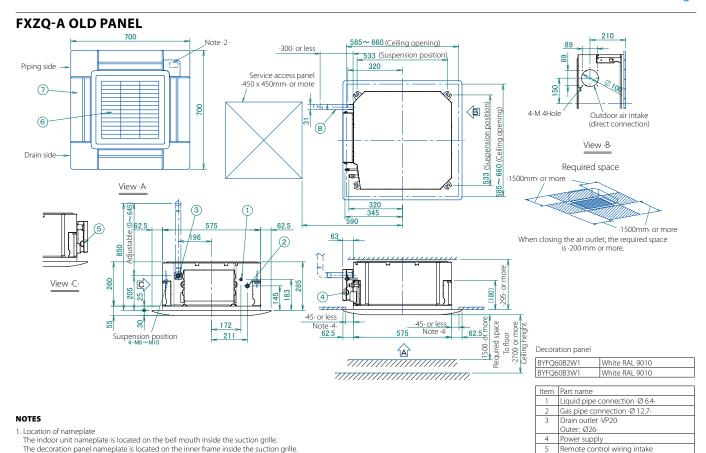


**FXZA-A OLD PANEL** 



# The decoration panel managepiate is located on the inner frame inside the suction grine. 2. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller. 3. If any of the following conditions are met, additional insulation (glass wool or polyethylene foam, thickness ≥-10·mm) is required: Ambient conditions in the ceiling ≥ -30°C and -80% relative humidity. Fresh air is inducted into the ceiling. The unit operates continuously. 4. Though the installation is acceptable up to maximum -660-mm square ceiling opening, keep the clearance of -45-mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.





In endoor unit nameplate is located on the bell mouth inside the suction grille.

The decoration panel nameplate is located on the inner frame inside the suction grille.

When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.

If any of the following conditions are met, additional insulation (glass wool or polyethylene foam, thickness ≥·10·mm) is required:

Ambient conditions in the celling > 30°C and ·80.% relative humidity.

Fresh air is inducted into the celling.

The unit operates continuously.

The unit operates continuously.

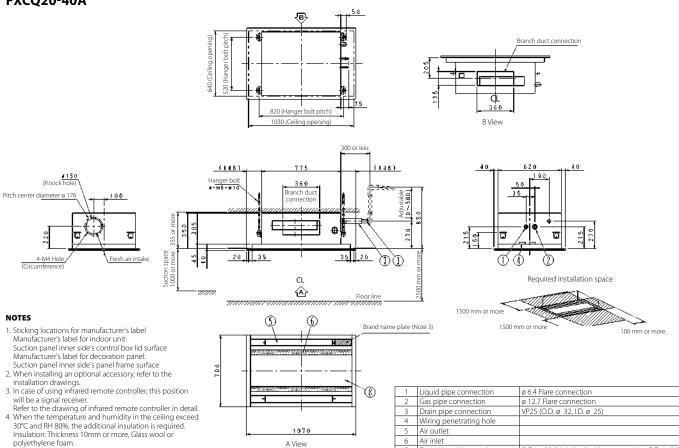
Though the installation is acceptable up to maximum ·660·mm square ceiling opening, keep the clearance of ·45·mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.

3D082161C

Air discharge grille Air suction grille Drain hose Inner: Ø25-

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#### FXCQ20-40A



Drain Hose (Accesory)

Suction panel

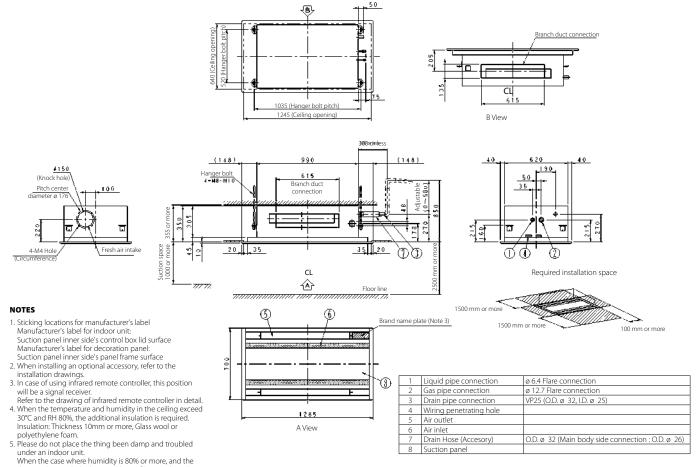
#### 3D079628

O.D. ø 32 (Main body side connection : O.D. ø 26)



may fall.

5. Please do not place the thing been damp and troubled under an indoor unit.
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew

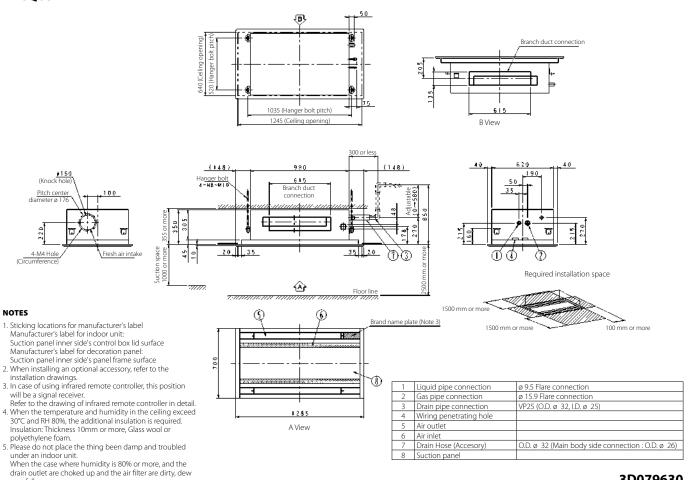


may fall.

drain outlet are choked up and the air filter are dirty, dew



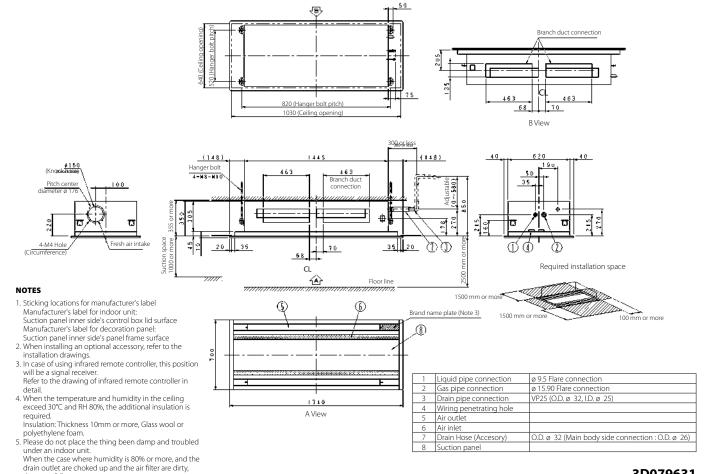
#### FXCQ63A



#### 3D079630

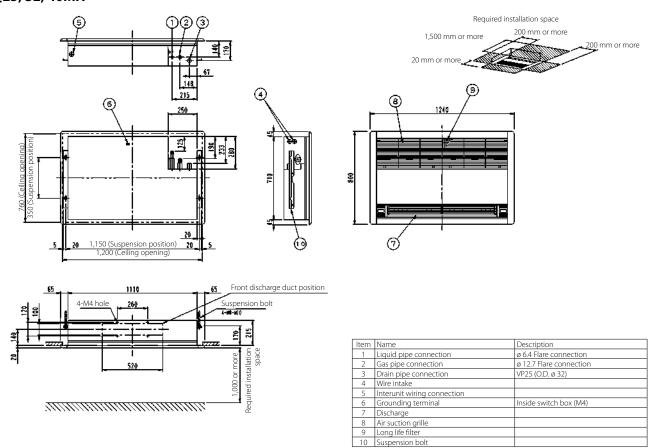
#### FXCQ80-125A

dew may fall.



### CLICK HERE TO VIEW ALL FXKQ-MA TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### FXKQ25, 32, 40MA

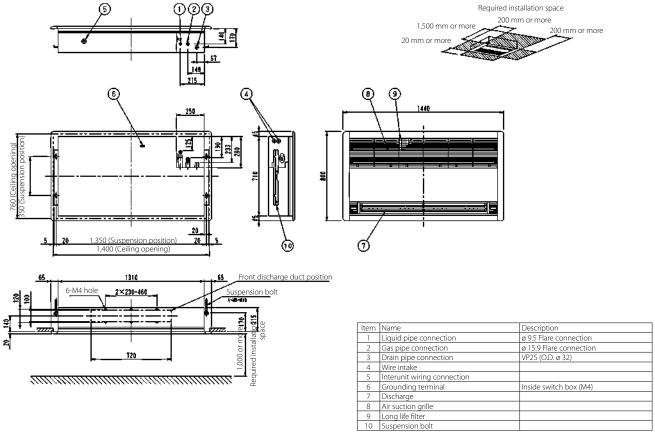


#### NOTES

- 1. Location of unit's name plate:
- For main body: Bottom part of fan housing inside of air suction grille.
   For decoration panel: Service lid face inside of air suction grille.
   When installing an optional accessory, refer to the installation drawings.

3D038840

#### FXKQ63MA

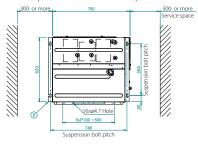


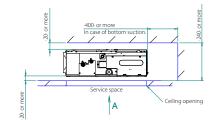
- 1. Location of unit's name plate:
- For main body: Bottom part of fan housing inside of air suction grille.
   For decoration panel: Service lid face inside of air suction grille.
   When installing an optional accessory, refer to the installation drawings.

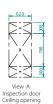


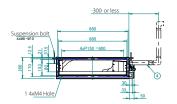
#### FXDA10-32A

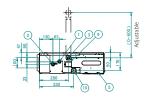
Service space of installation box for adaptor PCB.

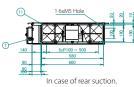


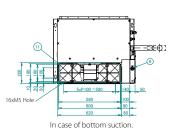


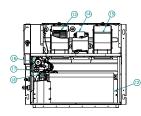












Item	
1	Liquid pipe connection ·ø6.35· Flare connection
2	Gas pipe connection ·ø9.52· Flare connection
3	Drain pipe connection Outside diameter: ·ø26- Inside diameter: ·ø20-
4	Drain hose (accessory) Inside diameter: -ø25-
5	Control box
6	Transmission wiring connection
7	Power supply connection
8	Suspension bracket
9	Inspection door
10	Drain socket
11	Air filter (accessory)
12	Heat exchanger
13	Turbo fan
14	Fan motor
15	Fan housing
16	Drain pump
17	Float switch
18	Electronic expansion valve

NOTES

- In case of bottom suction, mount the chamber cover to the backside of the unit.

  For more information, refer to the installation manual.

  2. In case of rear suction, mount the chamber cover to the bottom side of the unit.

  For more information, refer to the installation manual.

  3. The unit nameplate is located on the control box cover.

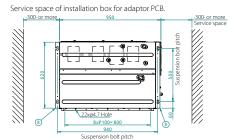
  4. Mount the air filter at the suction side.

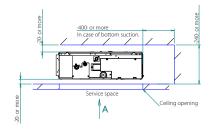
  Use an air filter with a dust collecting efficiency of at least -50% (measured by gravimetric analysis).

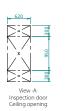
  When a duct is connected at the suction side, it is not possible to mount an air filter.

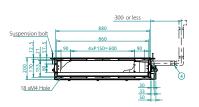
#### 2D126395

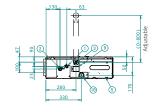
#### FXDA40-50A

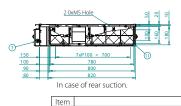






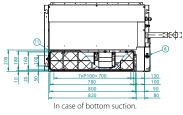


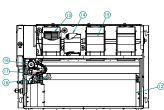




Control box

Liquid pipe connection ·ø6.35· Flare connection Gas pipe connection ·ø12.70· Flare connection Drain pipe connection Outside diameter: •ø26-Inside diameter: •ø20-





#### NOTE

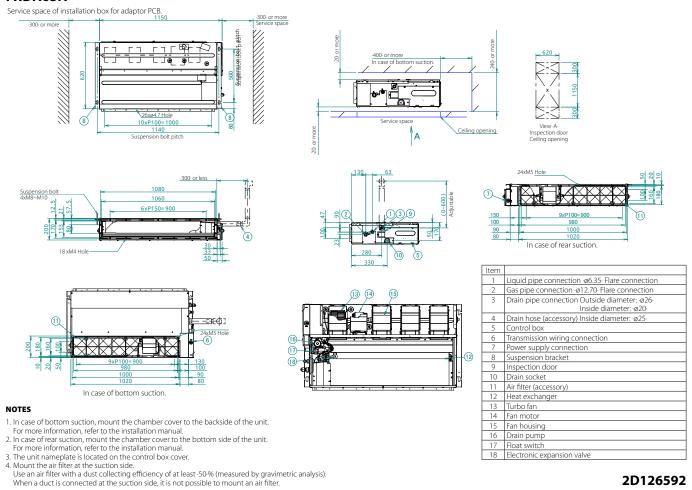
- 1. In c For 2. In c For
- 3. The 4. Mo

	6	Transmission wiring connection
	7	Power supply connection
	8	Suspension bracket
9 8 7xP100=700 130	9	Inspection door
780 100 100 100 100 100 100 100 100 100 1	10	Drain socket
820 80 110	11	Air filter (accessory)
In case of bottom suction.	12	Heat exchanger
NOTES	13	Turbo fan
·····	14	Fan motor
<ol> <li>In case of bottom suction, mount the chamber cover to the backside of the unit.</li> <li>For more information, refer to the installation manual.</li> </ol>	15	Fan housing
For more information, refer to the installation manual.  In case of rear suction, mount the chamber cover to the bottom side of the unit.	16	Drain pump
For more information, refer to the installation manual.	17	Float switch
3. The unit nameplate is located on the control box cover.	18	Electronic expansion valve
4. Mount the air filter at the suction side. Use an air filter with a dust collecting efficiency of at least -50% (measured by gravimetric analysis). When a duct is connected at the suction side, it is not possible to mount an air filter.		2D126

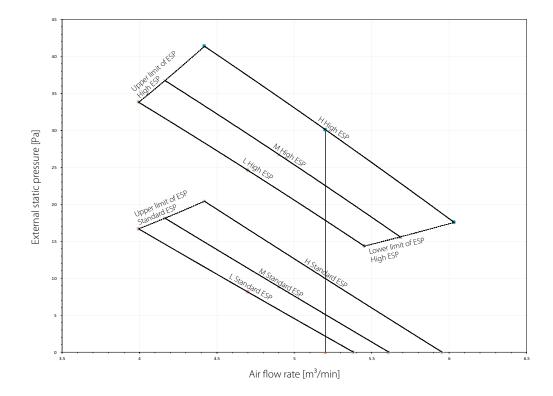
# Detailed technical drawings



#### FXDA63A



# FXDA10A



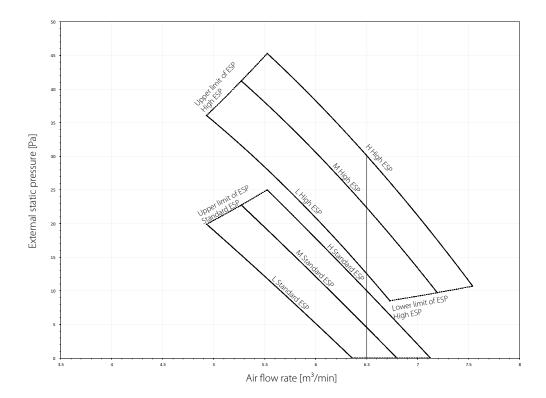
#### **NOTES**

- The fan characteristics shown are in "fan only" mode.
- ESP: External Static Pressure
- 3. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

2D126592



# FXDA15A

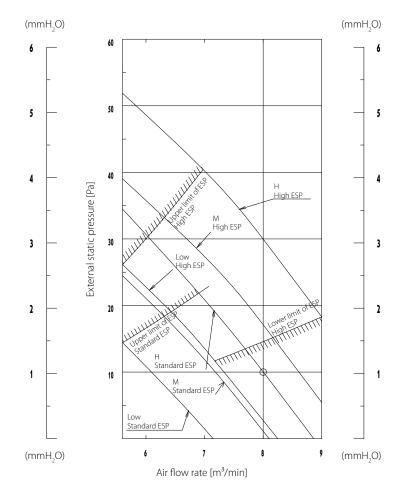


#### **NOTES**

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure
- 3. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D129553

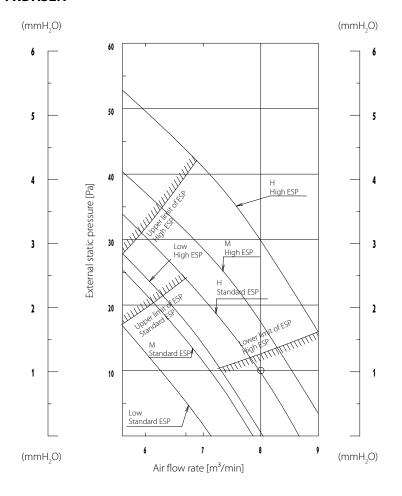
# **FXDA20-25A**



- 1. The remote controller can be used to switch between 'high' and 'low'.
- 2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



#### FXDA32A

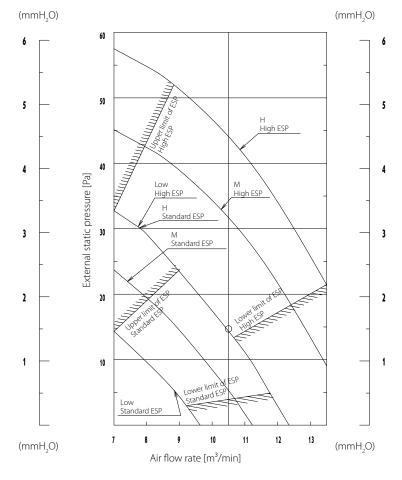


#### **NOTES**

- 1. The remote controller can be used to switch between 'high'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081425C

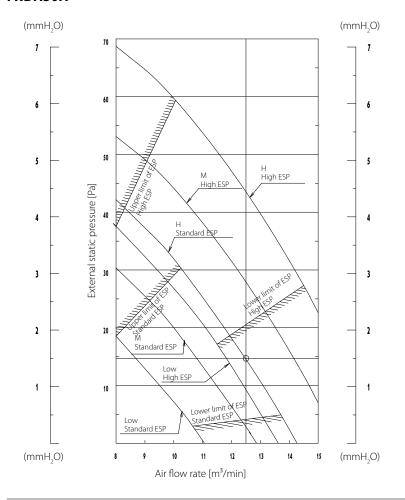
# **FXDA40A**



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



# FXDA50A

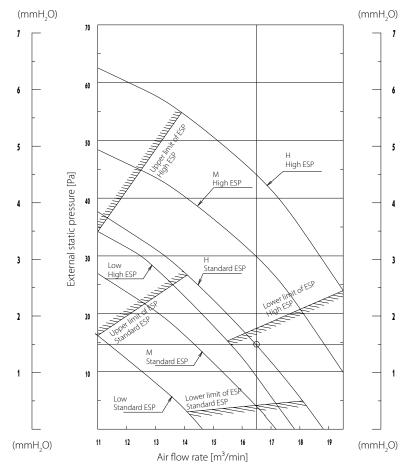


#### **NOTES**

- 1. The remote controller can be used to switch between 'high'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081427C

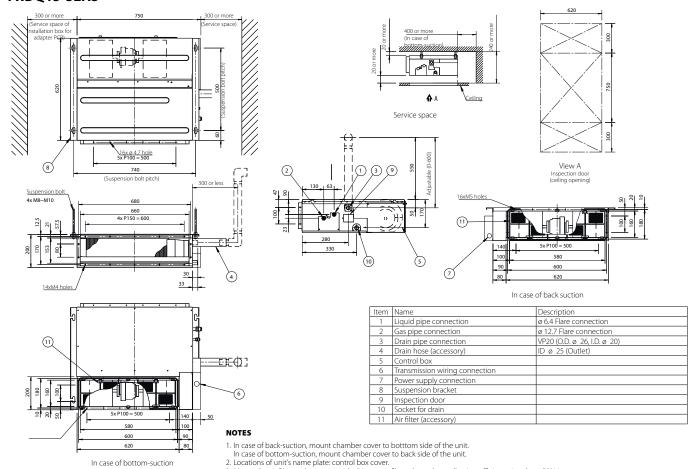
# FXDA63A



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

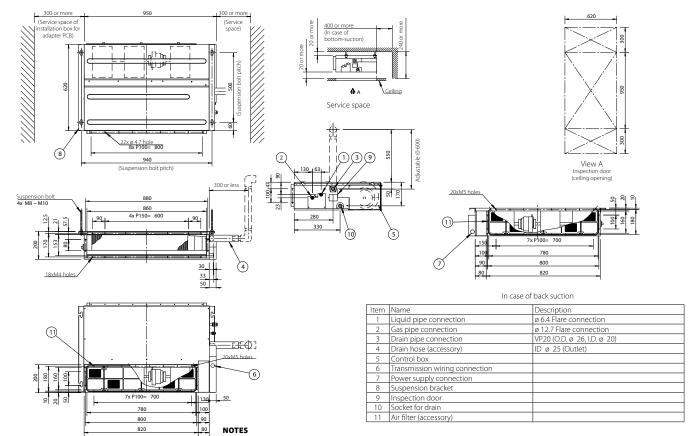
# CLICK HERE TO VIEW ALL FXDQ-A3 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### FXDQ15-32A3



#### FXDQ40-50A3

In case of bottom-suction



- In case of bottom-suction
- 1. In case of back-suction, mount chamber cover to botttom side of the unit.

- In case of bottom-suction, mount chamber cover to back side of the unit.

  2. Locations of unit's name plate: control box cover.

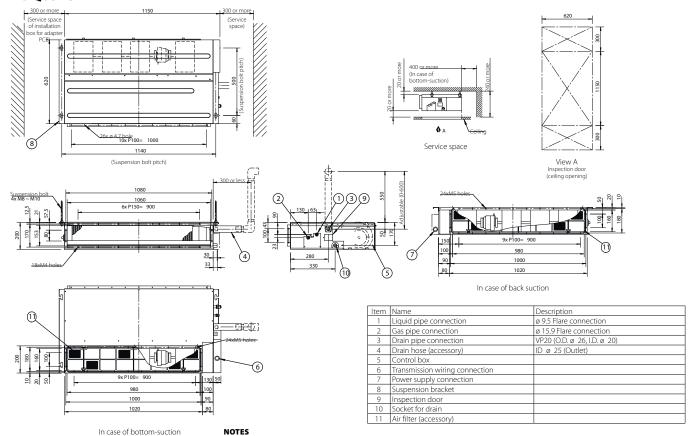
  3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081435



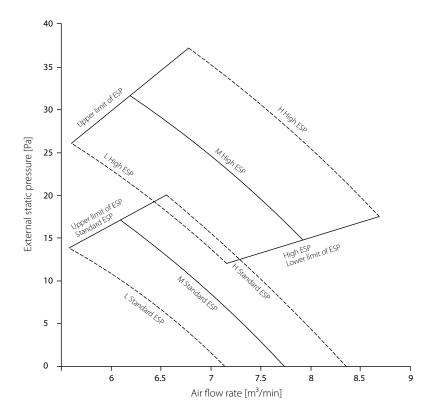
# FXDQ63A3



- In case of back-suction, mount chamber cover to botttom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
   Locations of unit's name plate: control box cover.
   Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081441

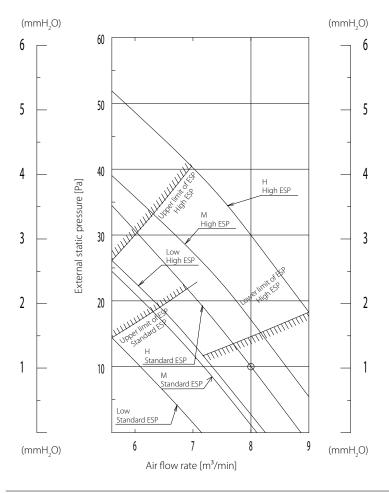
# FXDQ15A3



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



#### FXDQ20-25A3

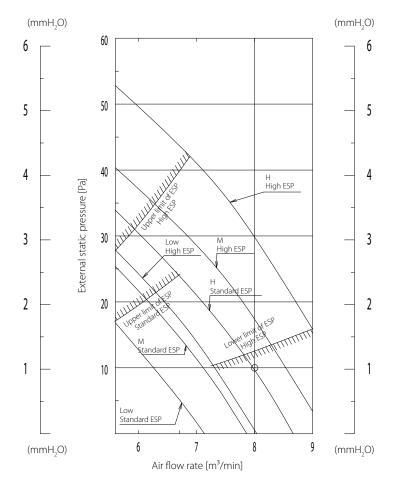


#### **NOTES**

- The remote controller can be used to switch between 'high' and 'low'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D086736B

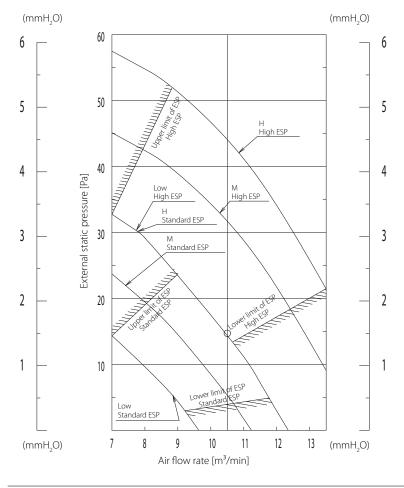
# FXDQ32A3



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



#### FXDQ40A3

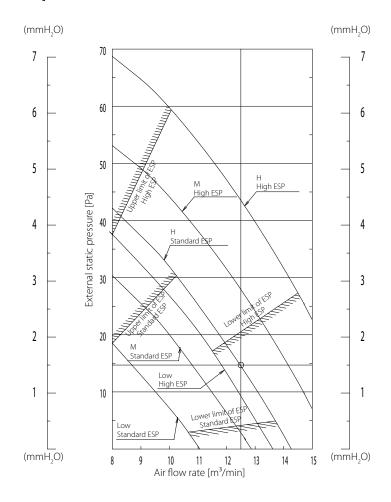


#### **NOTES**

- 1. The remote controller can be used to switch between 'high' and 'low'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081426C

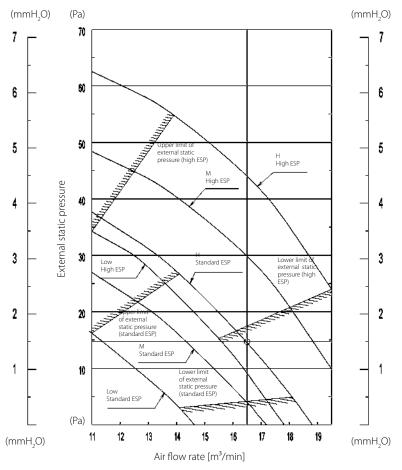
# FXDQ50A3



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



# FXDQ60A3



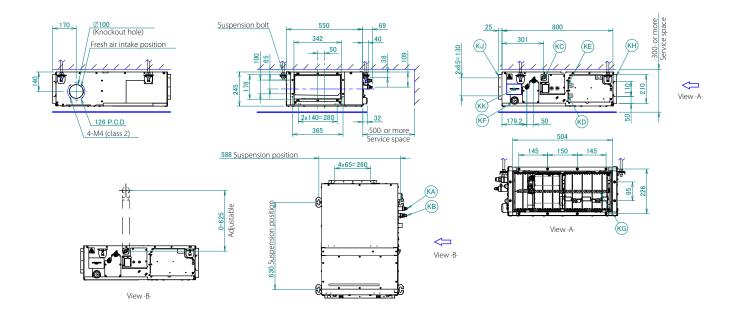
#### **NOTES**

- 1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FDQ-A2VEB model)
- 2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081429B



#### **FXSA15-32A**



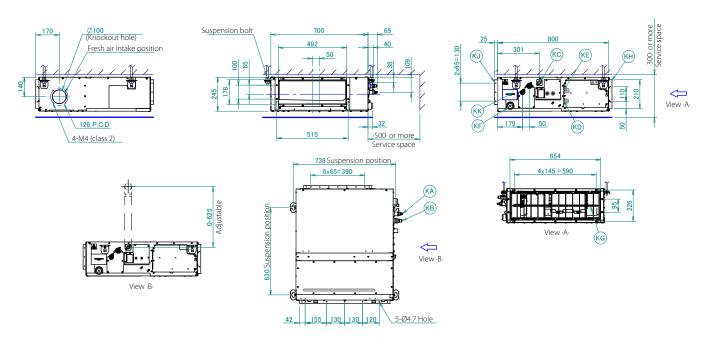
#### NOTES

- When installing optional accessories, refer to their respective documentation.
   The ceiling depth varies according to the documentation of the specific system.
   In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
   In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

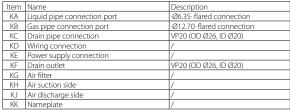
Item	Name	Description
KA	KA Liquid pipe connection port .Ø6.35- flared connecti	
KB	Gas pipe connection port	·Ø9.52· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

3D128686

# FXSA40-50A

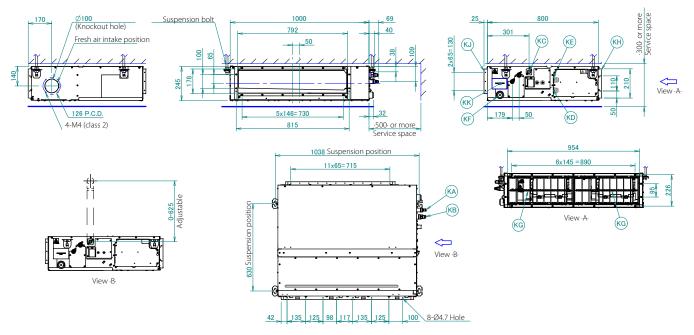


- 1. When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.
   In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- 4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.





#### FXSA63-80A



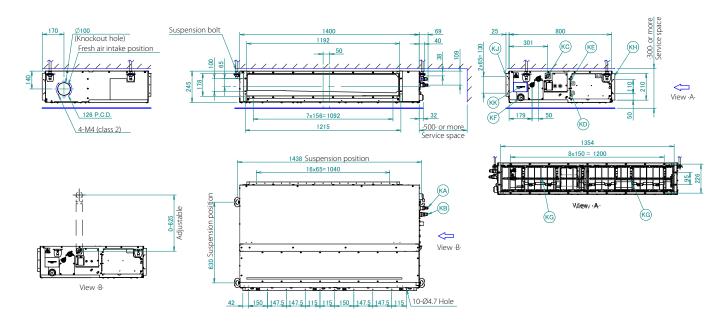
#### NOTES

- When installing optional accessories, refer to their respective documentation.
   The ceiling depth varies according to the documentation of the specific system.
   In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
   In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø12.70· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

3D128716

# FXSA100-125A

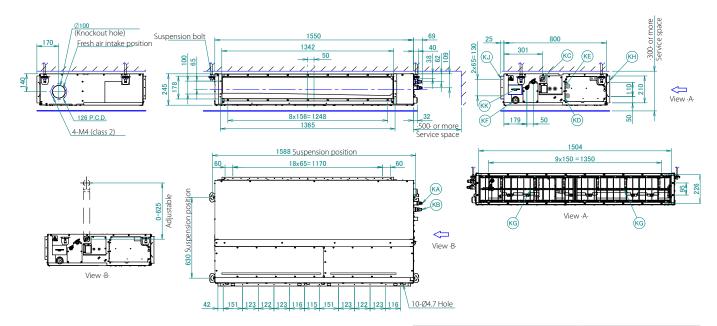


- 1. When installing optional accessories, refer to their respective documentation.
- 2. The ceiling depth varies according to the documentation of the specific system.
  3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

Item	em Name Description	
KA	Liquid pipe connection port	·Ø9.52· flared connection
KB	Gas pipe connection port	·Ø15.90· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/



#### FXSA140A



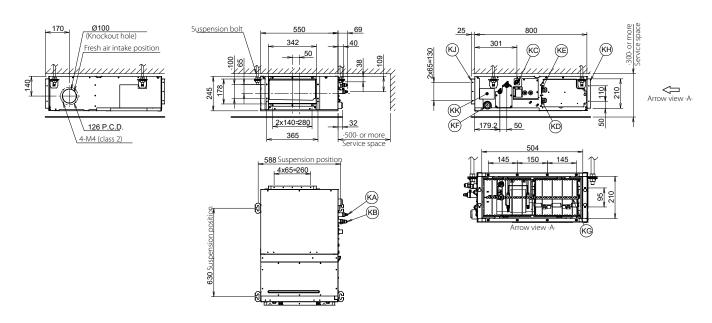
#### NOTES

- When installing optional accessories, refer to their respective documentation.
   The ceiling depth varies according to the documentation of the specific system.
   In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
   In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

Item	Name Description	
KA	Liquid pipe connection port -Ø9.52- flared connection	
KB	Gas pipe connection port Ø15.90 flared connection	
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

3D128720

# FXSQ15-32A

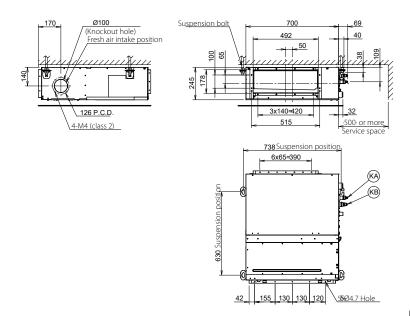


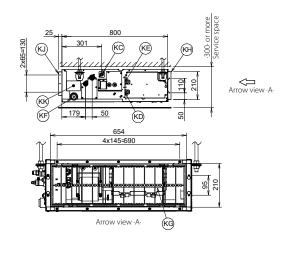
Item	m Name Description	
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø12.70· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

- 1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.

# CLICK HERE TO VIEW ALL FXSQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

# FXSQ40-50A





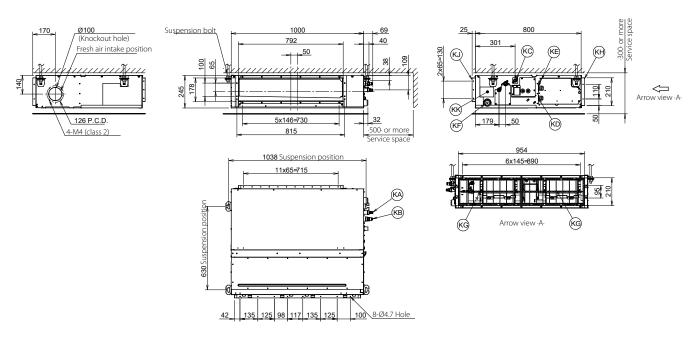
Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø12.70· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Namenlate	/

#### NOTES

- 1. When installing optional accessories, refer to their respective documentation.
- 2. The ceiling depth varies according to the documentation of the specific system.

#### 3D094919A

# FXSQ63-80A



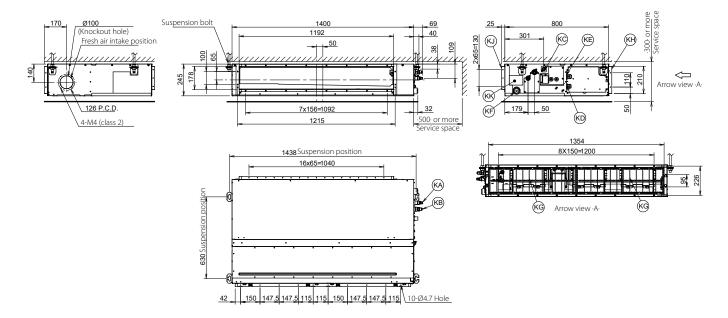
Item	Name	Description
KA	Liquid pipe connection port	·Ø9.52· flared connection
KB	Gas pipe connection port	·Ø15.90· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

#### NOTES

1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.



# FXSQ100-125A



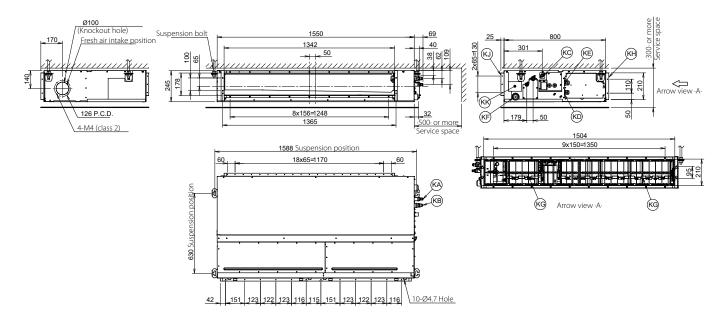
Item	ame Description	
KA	Liquid pipe connection port	∙Ø9.52· flared connection
KB	Gas pipe connection port	·Ø15.90· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

#### NOTES

- 1. When installing optional accessories, refer to their respective documentation.
- 2. The ceiling depth varies according to the documentation of the specific system.

#### 3D094917A

# FXSQ140A

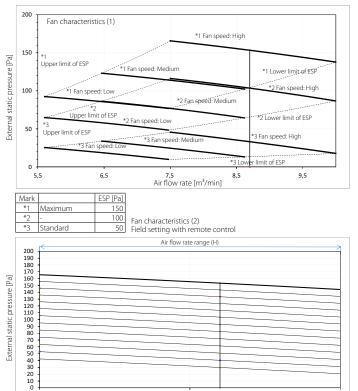


Item	Name	Description
KA	Liquid pipe connection port	·Ø9.52· flared connection
KB	Gas pipe connection port	·Ø15.90· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

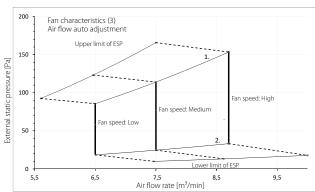
- 1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.

# CLICK HERE TO VIEW ALL FXSA-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

### FXSQ15A FXSA15A



8,5 Air flow rate [m³/min]

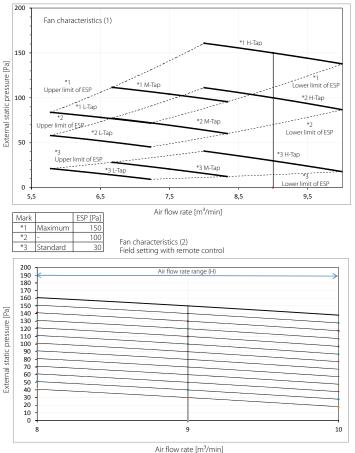


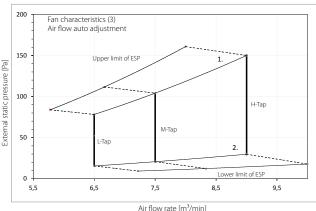
- Upper limit of ESP by air flow auto adjustment
   Lower limit of ESP by air flow auto adjustment

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

#### 3D096999B

#### FXSQ20-25A FXSA20-25A



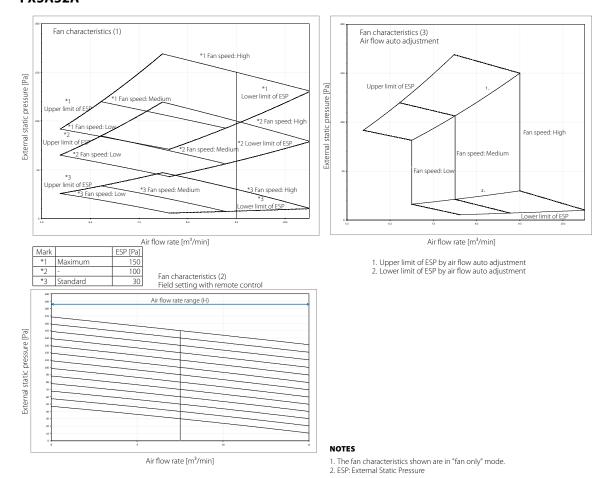


- 1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment

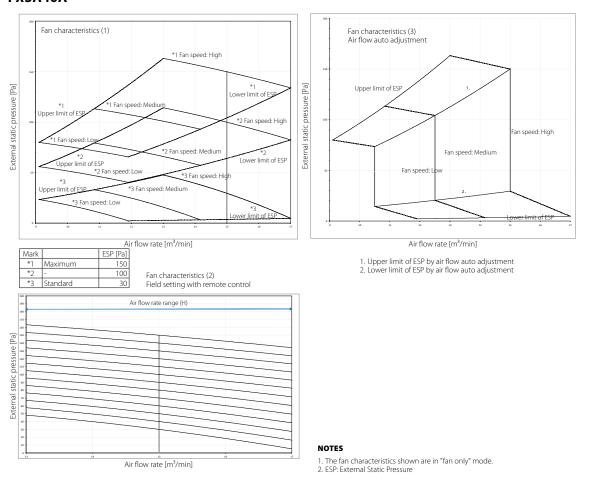
1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure



### FXSQ32A FXSA32A

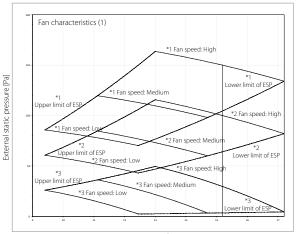


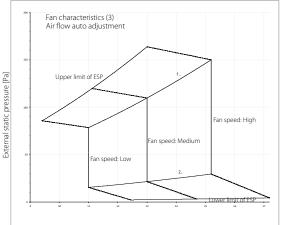
#### FXSQ40A FXSA40A



3D095681B

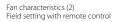
### FXSQ50A FXSA50A

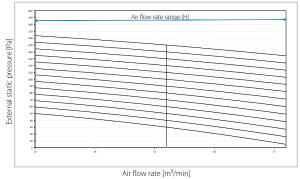




Air flow rate [m³/min]

Air flow rate [m³/min]



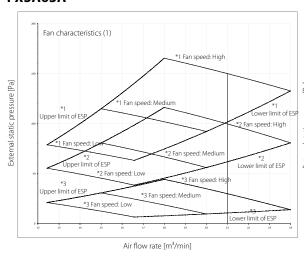


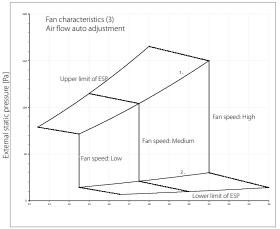
- 1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment
- Mark 150 100

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

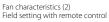
3D095688B

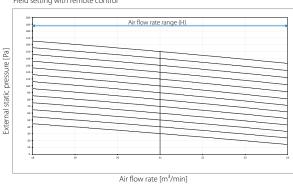
#### FXSQ63A FXSA63A





Air flow rate [m³/min]





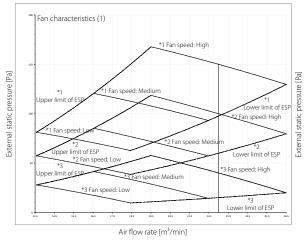
Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment

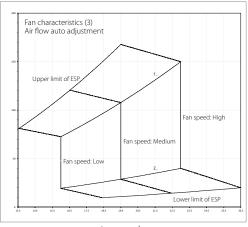
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure



### FXSQ80A FXSA80A





- Air flow rate [m³/min]
- Upper limit of ESP by air flow auto adjustment
   Lower limit of ESP by air flow auto adjustment

ESP [Pa]

Air flow rate range (H) External static pressure [Pa]

Air flow rate [m³/min]

*1	Maximum	150
*2	-	100
*3	Standard	40

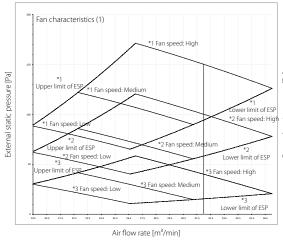
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

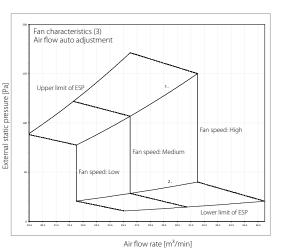
Mark

3D095692B

#### FXSQ100A FXSA100A

Fan characteristics (2) Field setting with remote control





Field setting with remote control

Air flow rate range (H) External static pressure [Pa]

Air flow rate [m3/min]

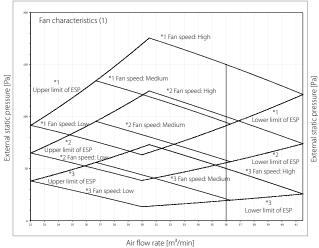
- Upper limit of ESP by air flow auto adjustment
   Lower limit of ESP by air flow auto adjustment

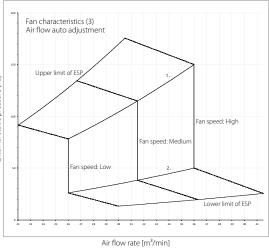
Mark		ESP [Pa
*1	Maximum	150
*2	-	100
*3	Standard	40

- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure

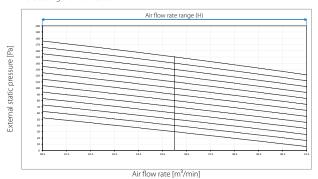
# CLICK HERE TO VIEW ALL FXSA-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

### FXSQ125A FXSA125A





Fan characteristics (2) Field setting with remote control



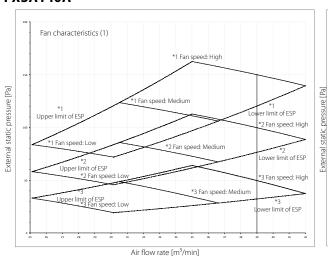
- 1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment

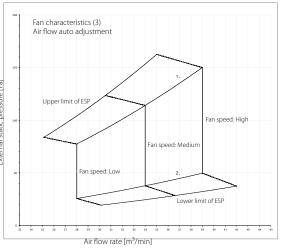
	Mark		ESP [Pa]
	*1	Maximum	150
	*2	-	100
	*3	Standard	50

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

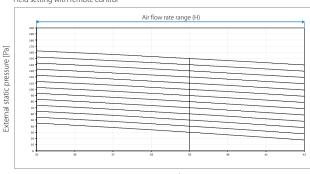
3D095697B

#### FXSQ140A FXSA140A





Fan characteristics (2) Field setting with remote control



Air flow rate [m3/min]

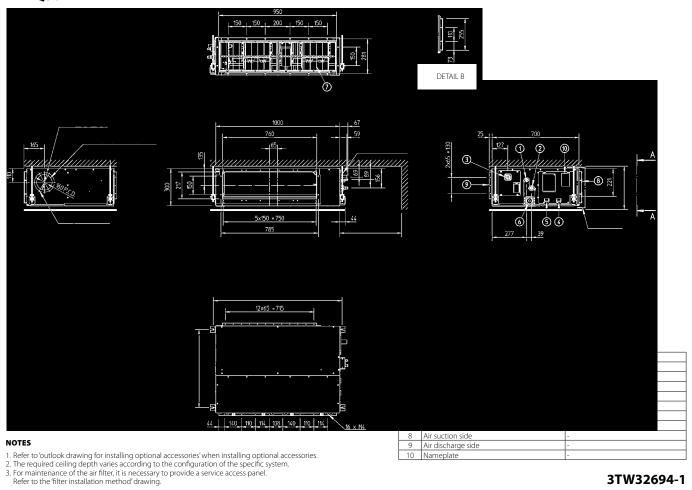
- 1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure



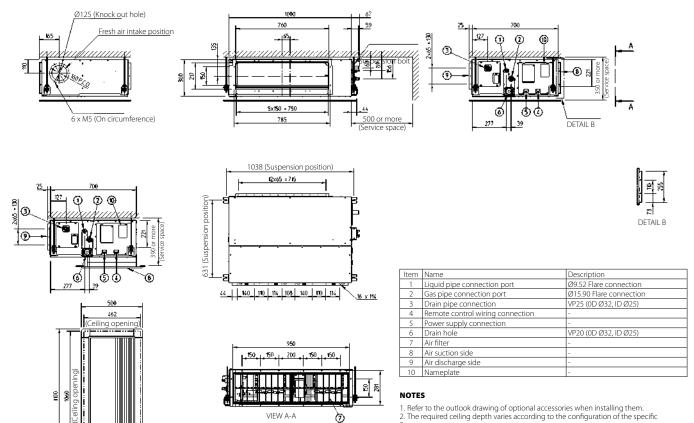
#### FXMQ50P7



With decoration panel

3TW32694-1

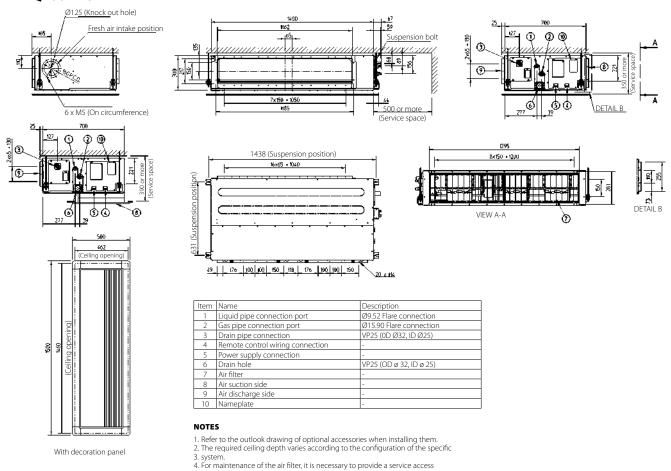
# FXMQ63-80P7



Ø

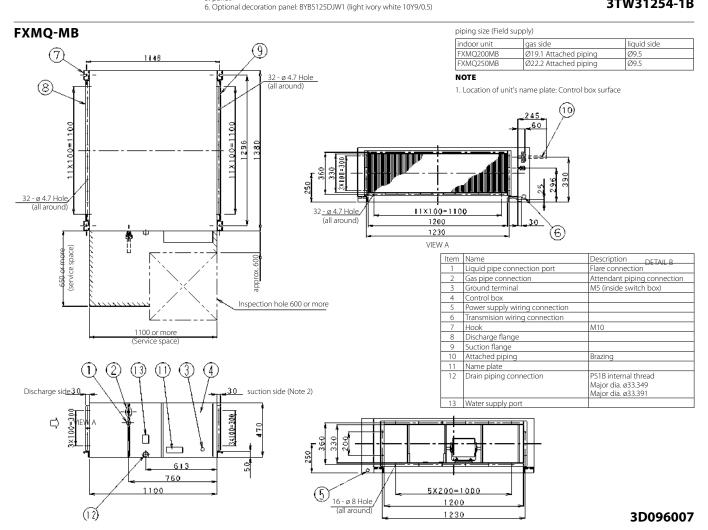
3. system.
4. For maintenance of the air filter, it is necessary to provide a service access 5. panel. Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)

#### FXMQ100-125P7



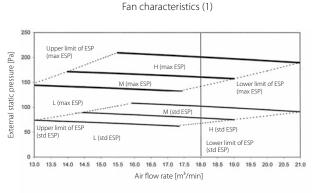
5. panel.

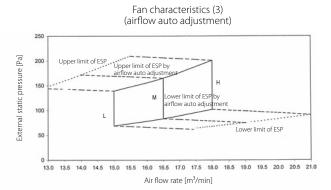
3TW31254-1B



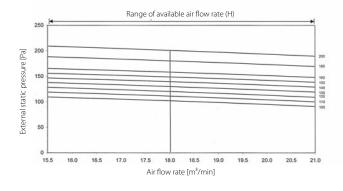


### FXMQ50P7





Fan characteristics (2 (Field setting with remote control))

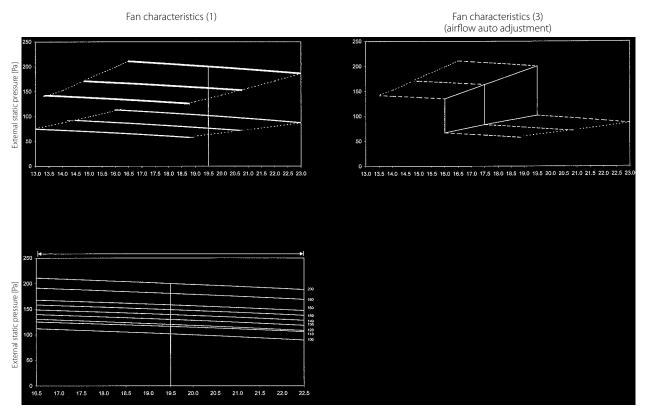


# NOTES

- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

3TW32698-1

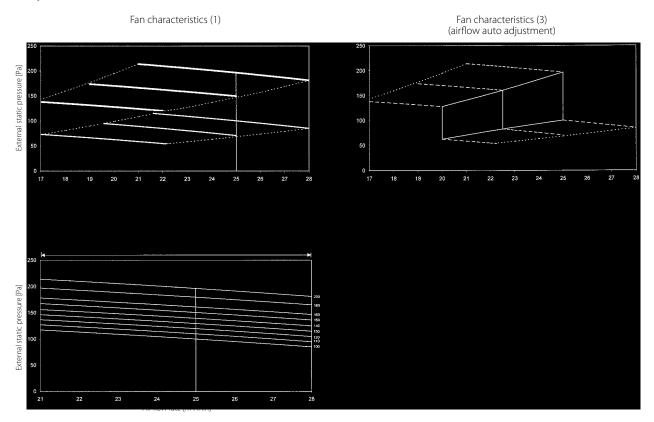
# FXMQ63P7



- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

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# FXMQ80P7

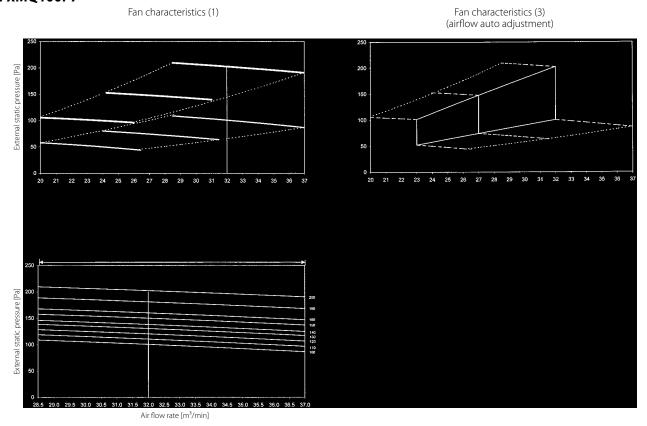


#### **NOTES**

- Fan characteristics as shown are in "fan only" mode.
   ESP: External static pressure

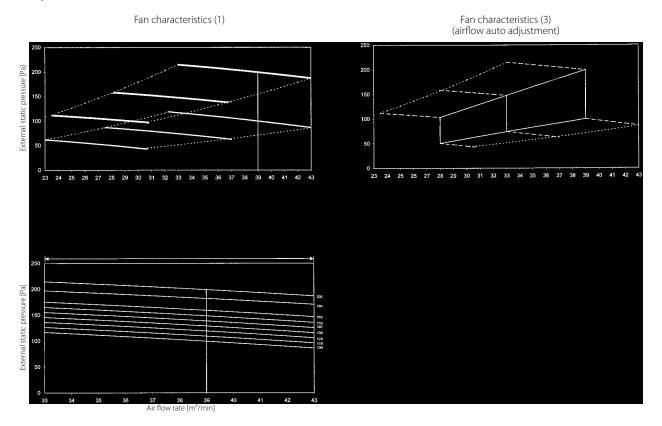
3TW32718-1





- Fan characteristics as shown are in "fan only" mode.
   ESP: External static pressure

#### FXMQ125P7

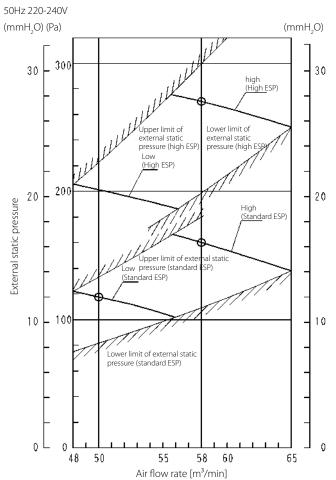


#### NOTES

- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

3TW32738-1

# FXMQ200MB



- 1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
- The air flows is set to 'STANDARD' before leaving the factory. It
  is possible to switch between 'STANDARD ESP' and 'HIGH ESP'
  by remote controller.

# FXMQ250MB

10

100

60 62

50Hz 220-240V (mmH<sub>2</sub>O) (Pa) (mmH<sub>2</sub>O) Upper limit of external static pressure (hir' Low (High 300 30 30 high (<u>High E</u>SP) Lower limit of external static pressure (high ESP) 200 External static pressure 0 20 High (<u>Standa</u>rd ESP)

Upper limit of externa pressure (standard ES

70 72

Air flow rate [m³/min]

75

tandard ESP)

Lower limit of external static pressure (standard ESP)

65

#### **NOTES**

10

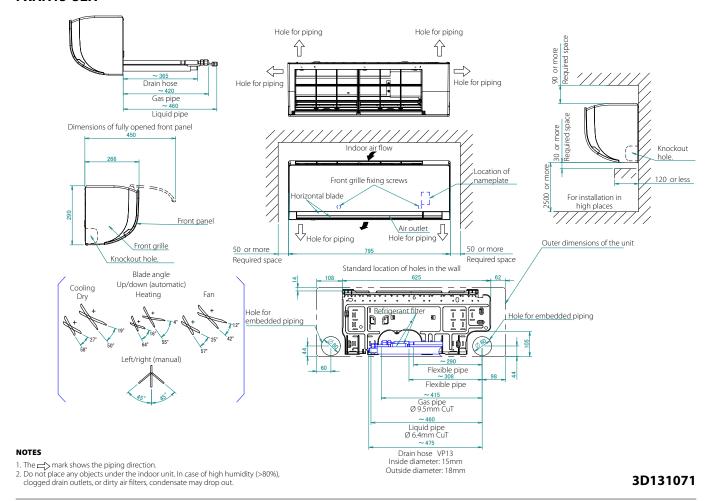
80

- Remote controller can be used to switch between 'HIGH' and
- The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

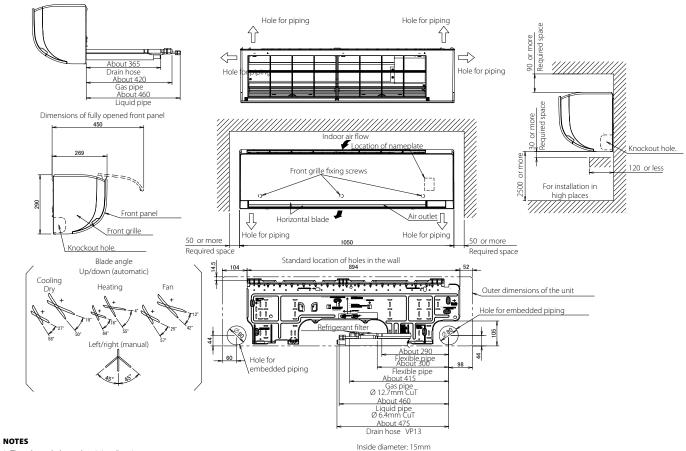
4D095422



#### **FXAA15-32A**



#### FXAA40-63A

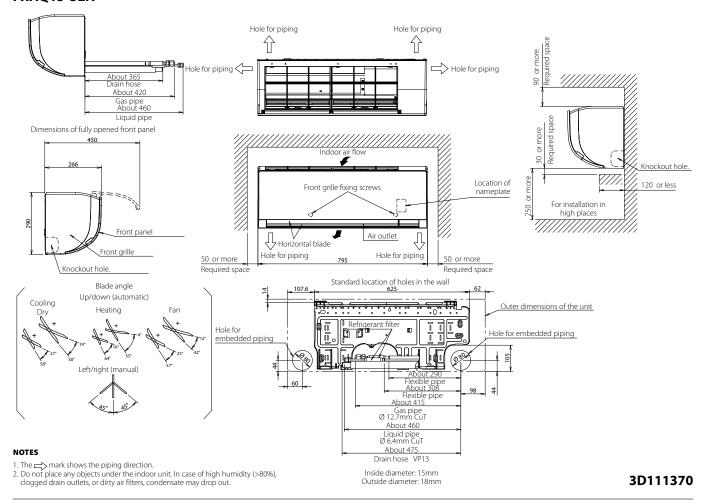


Outside diameter: 18mm

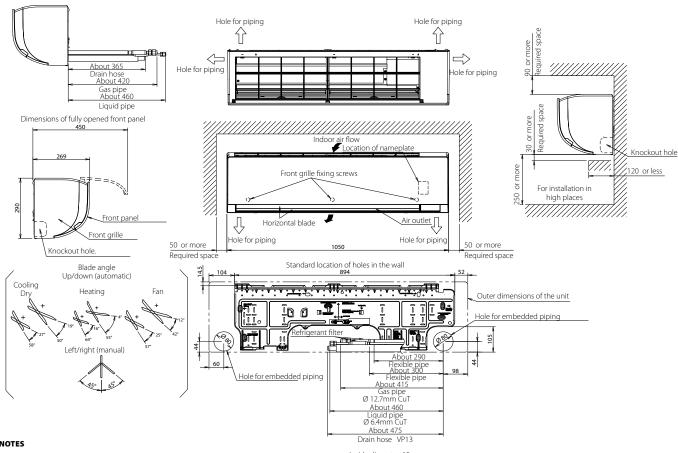
- 1. The \(\rightarrow\) mark shows the piping direction.
  2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out

# CLICK HERE TO VIEW ALL FXAQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### **FXAQ15-32A**



#### FXAQ40-50A

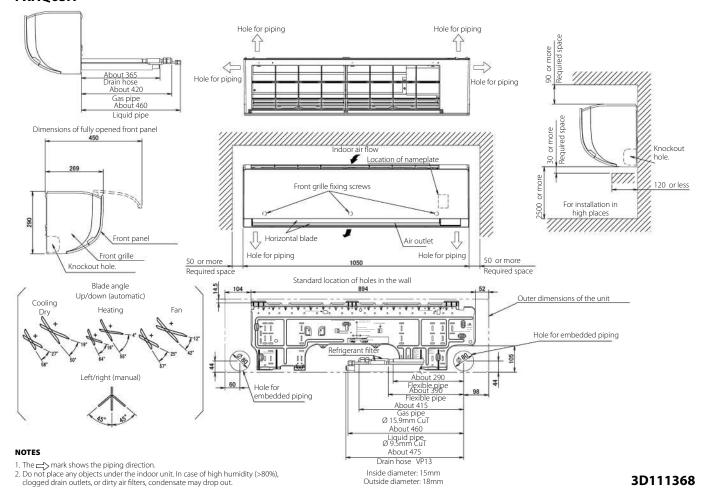


- 1. The  $\Longrightarrow$  mark shows the piping direction. 2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out

Inside diameter: 15mm Outside diameter: 18mm

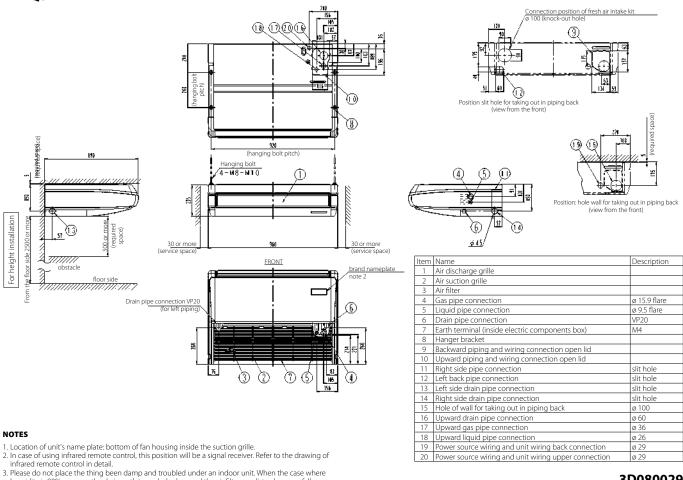


# FXAQ63A



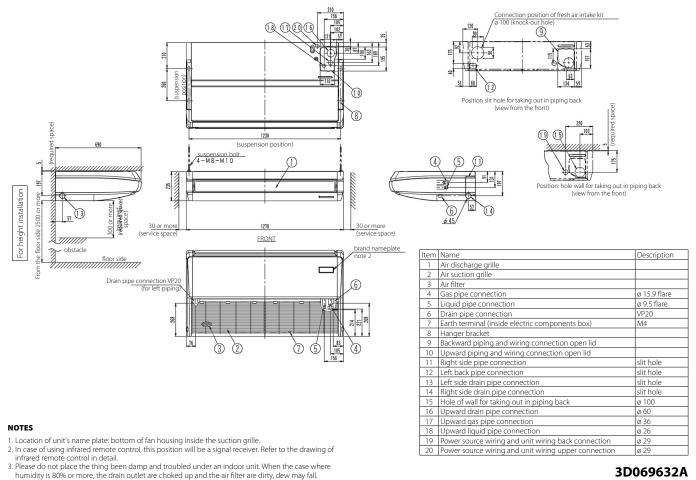
# **CLICK HERE** TO VIEW ALL FXHQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### FXHQ32A



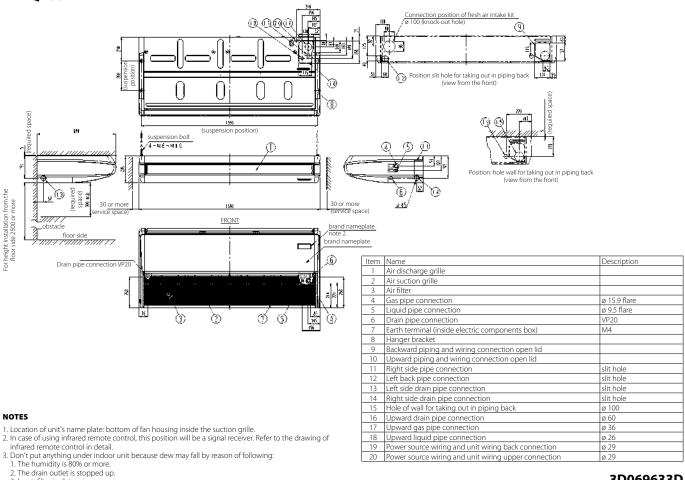
# FXHQ63A

humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

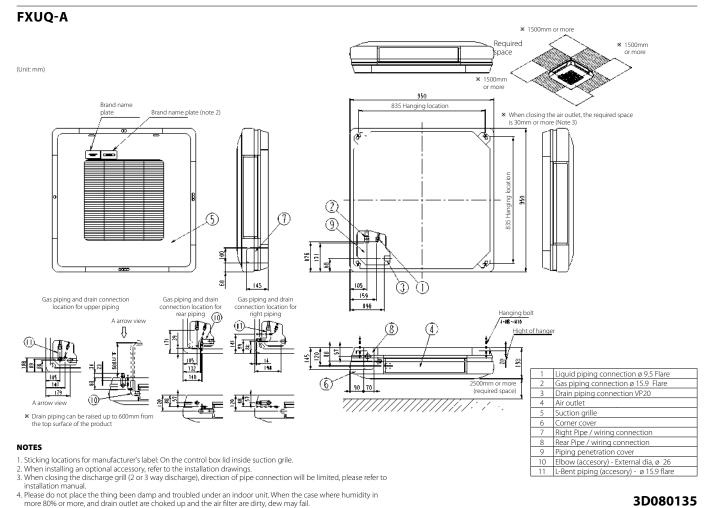


3D080029

#### FXHQ100A

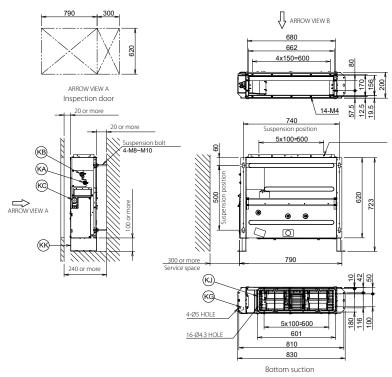


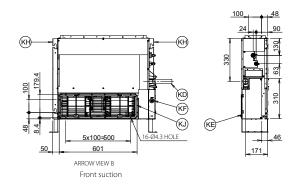
3D069633D 3. he air filter is dirty.



# CLICK HERE TO VIEW ALL FXNQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

# FXNQ20-32A





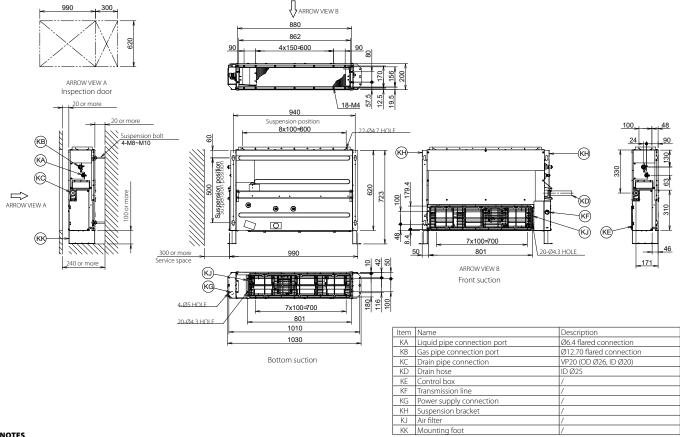
Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø12.7 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

#### NOTES

- 1. When installing optional accessories, refer to their respective documentation.
  2. The ceiling depth varies according to the documentation of the specific system.

#### 3D096749A

# FXNQ40-50A

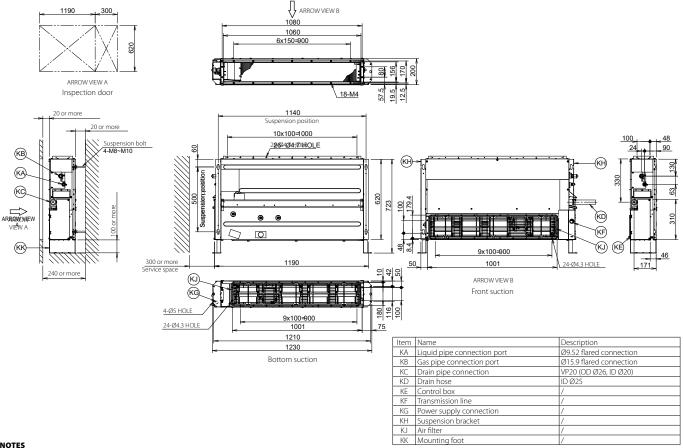


1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.

3D096747



# FXNQ63A

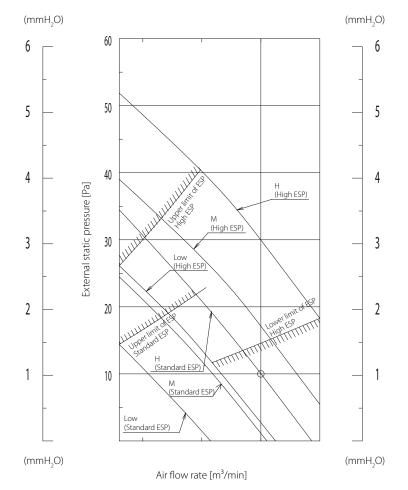


#### NOTES

- 1. When installing optional accessories, refer to their respective documentation.
  2. The ceiling depth varies according to the documentation of the specific system.

#### 3D096740A

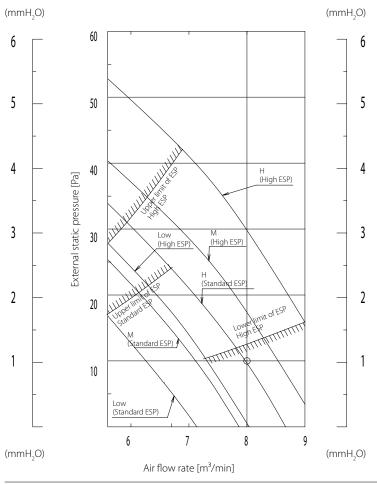
# FXNQ20-25A



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..



# FXNQ32A

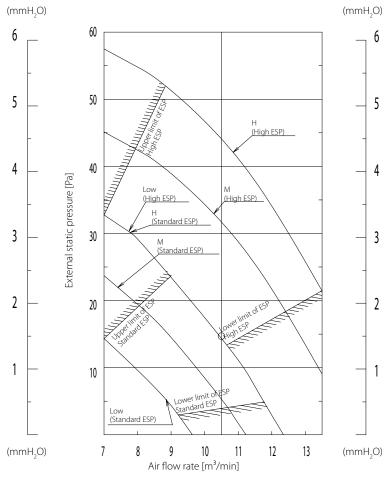


#### NOTES

- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

3D081425C

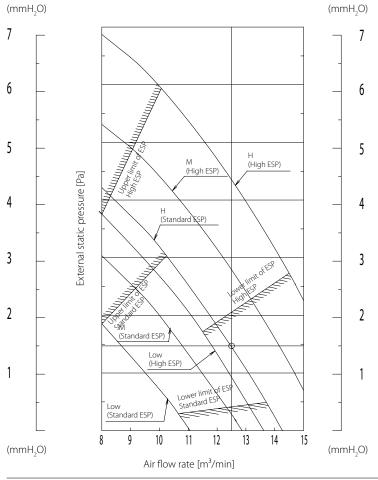
# **FXNQ40A**



- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



# **FXNQ50A**

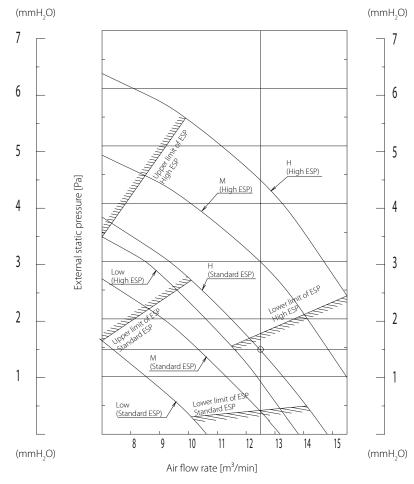


#### NOTES

- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

3D081427C

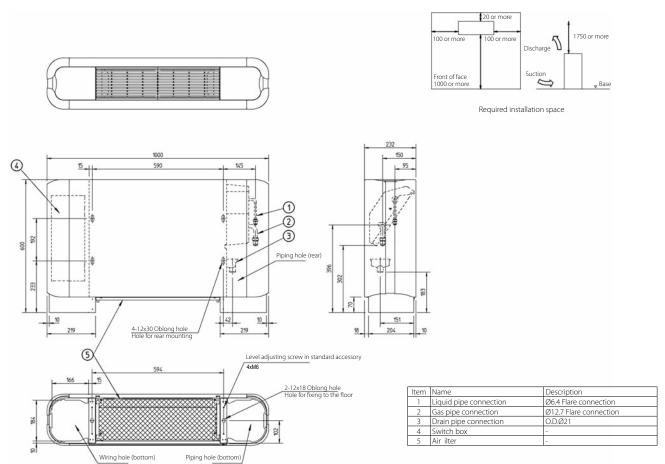
# FXNQ63A



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

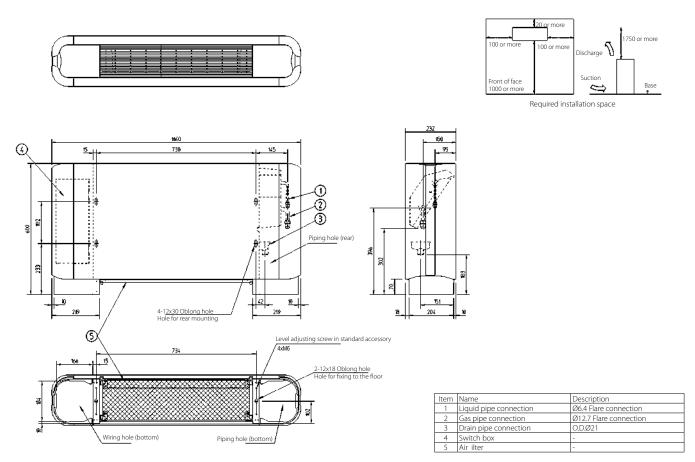
# CLICK HERE TO VIEW ALL FXLQ-P TECHNICAL DRAWINGS ON MY.DAIKIN.EU

# FXLQ20-25P



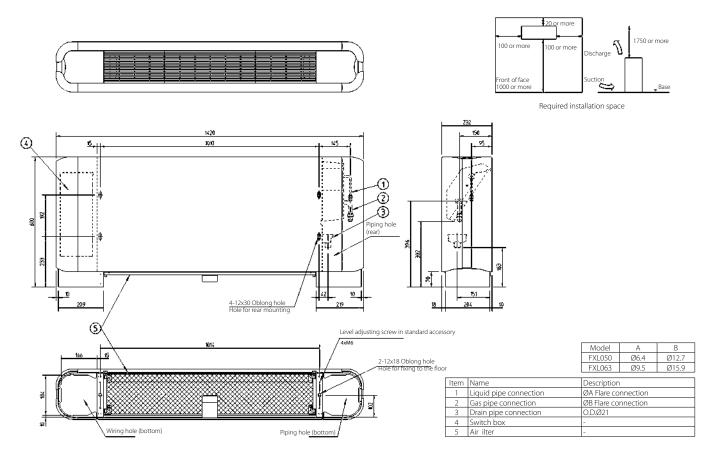
#### 3TW32294-1

# FXLQ32-40P





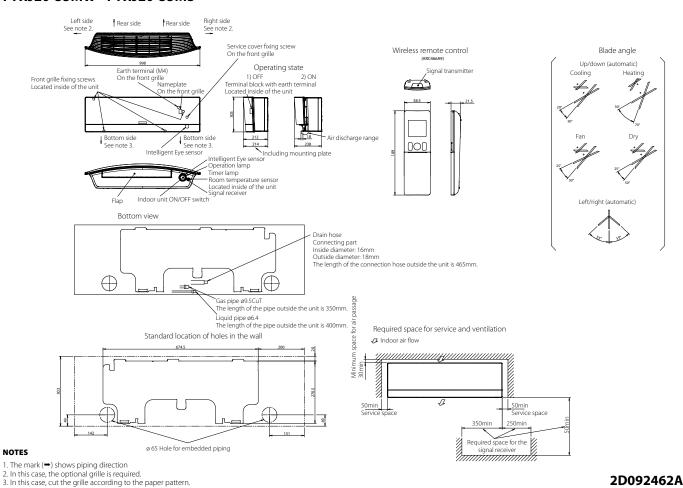
## FXLQ50-63P



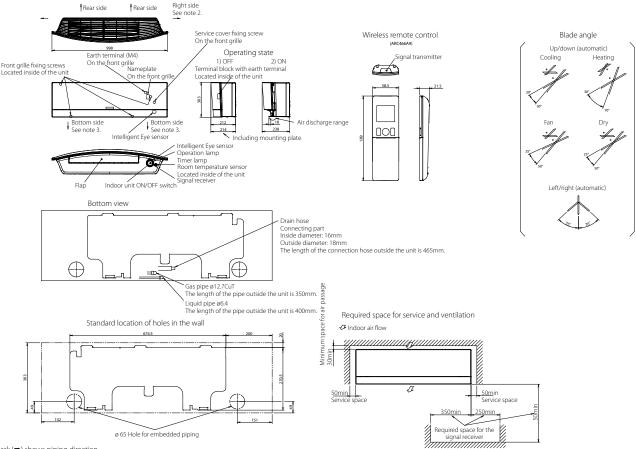
3TW32334-1

## **CLICK HERE** TO VIEW ALL FTXJ-MW TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### **FTXJ20-35MW - FTXJ20-35MS**



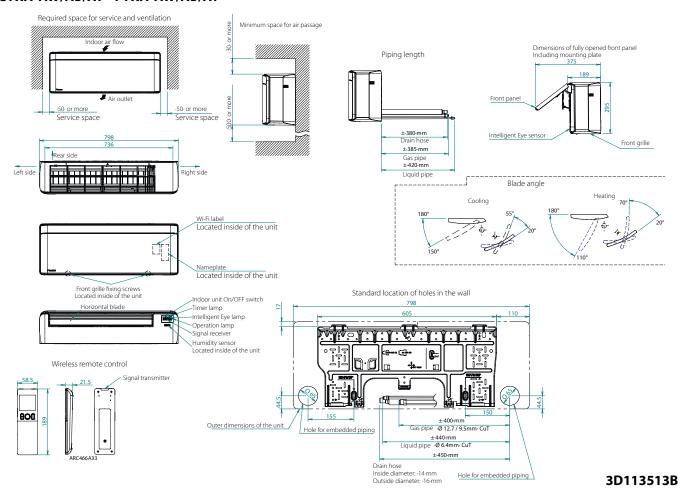
## FTXJ50MW - FTXJ50MS



- 1. The mark (→) shows piping direction
- 2. In this case, the optional grille is required.3. In this case, cut the grille according to the paper pattern.

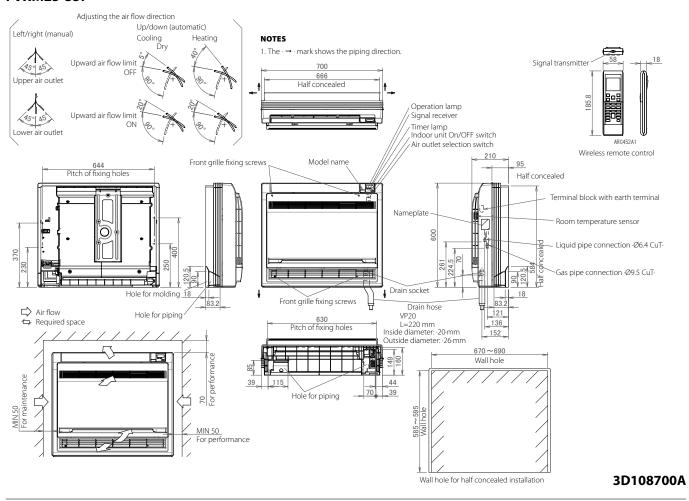


## CTXA-AW/AS/AT - FTXA-AW/AS/AT

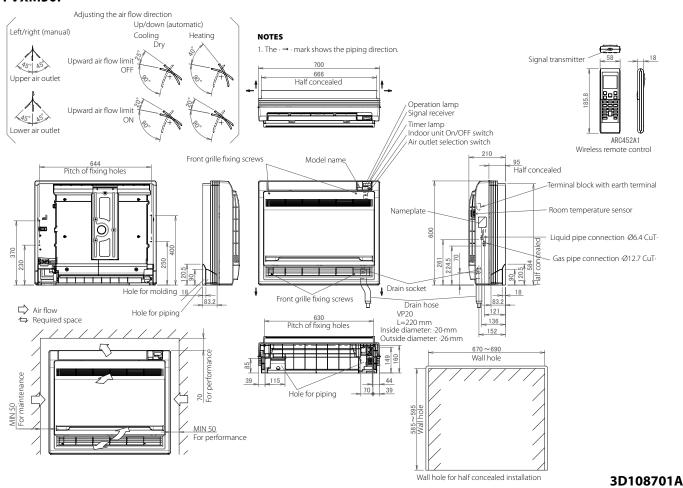


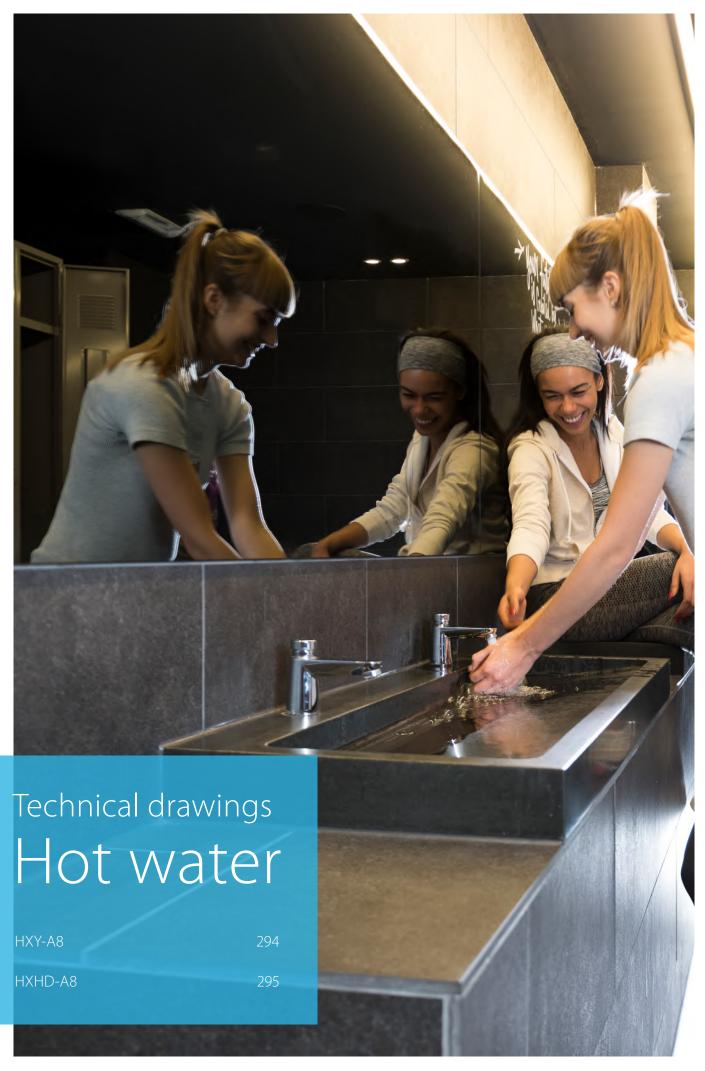


#### FVXM25-35F



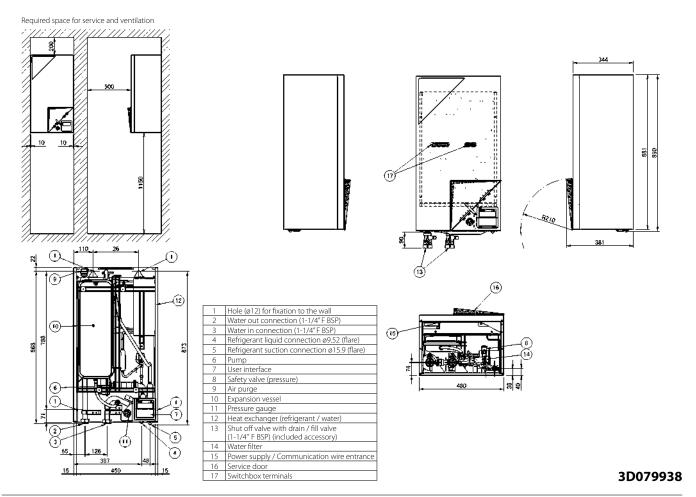
## FVXM50F



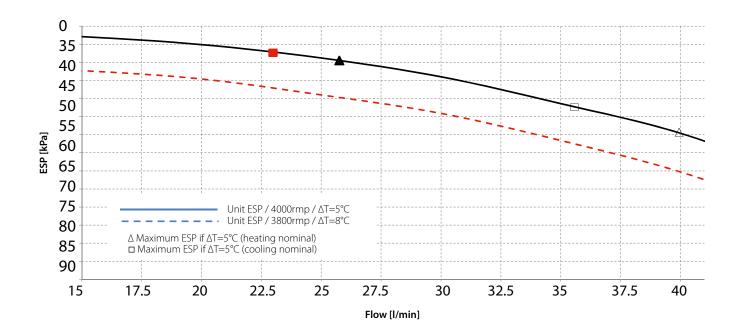


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## HXY-A8



## HXY-A8

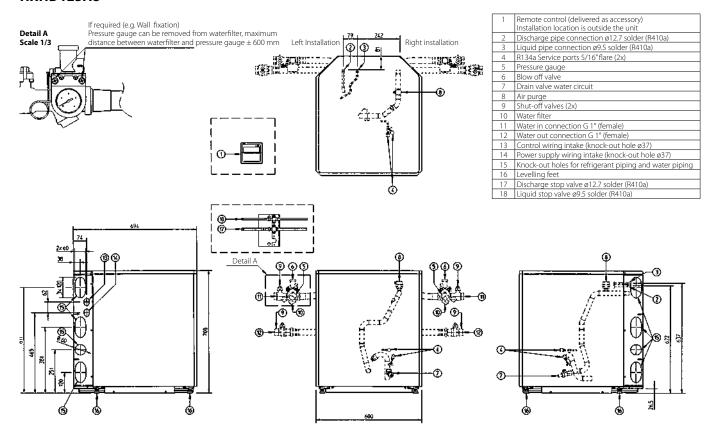


ESP: External Static Pressure Flow: Water flow through the unit

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specications. Water quality must be according to EU directive 98/83 EC.

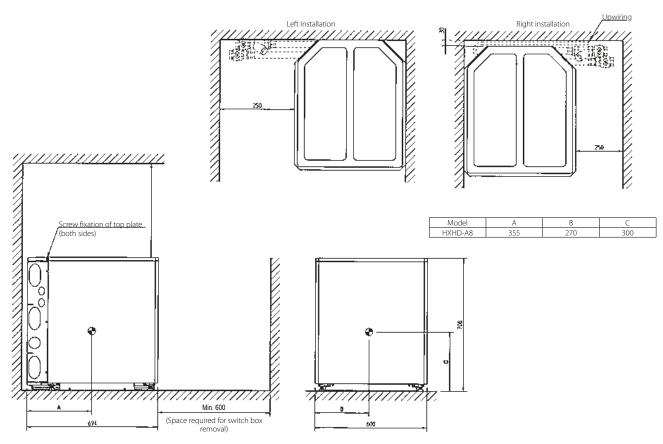


#### HXHD125A8



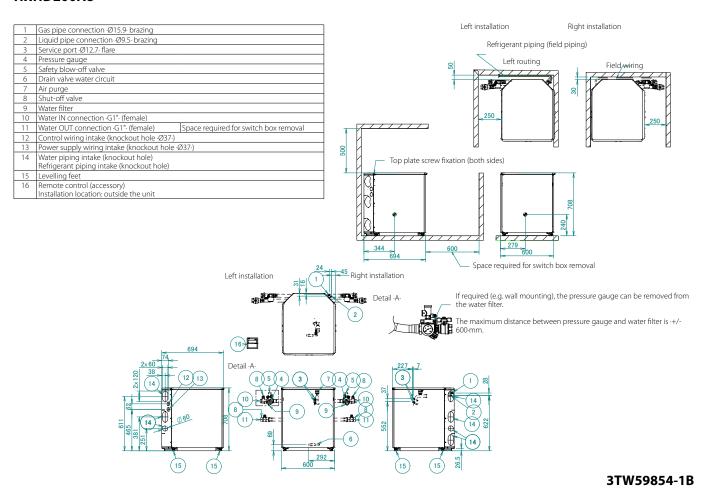
### 3TW59914-1B(1)

## **HXHD125A8**



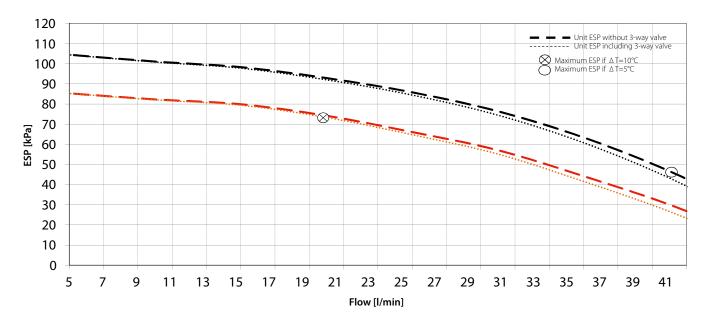


## HXHD200A8





#### **HXHD125A8**



#### NOTES

- The ESP curves are the maximum ESP curves for different (T types (pump rpm=4200 for (T=5°C; pump rpm=3800 for (T=10°C).
- The pump of the indoor unit is inverter-controlled and functions to have a fixed (T between the return water temperature and the leaving water temperature.

In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

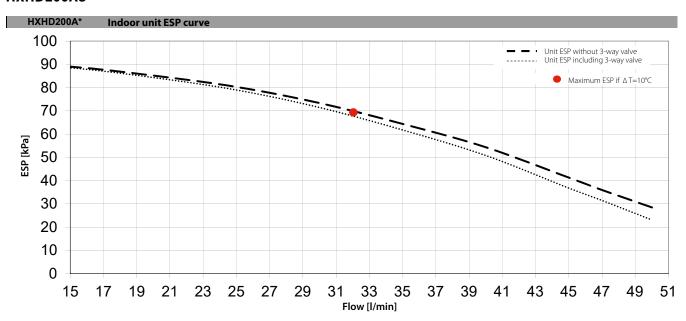
ESP: External Static Pressure Flow: water flow through the unit

#### WARNING

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specications.
- 2. Water quality must be according to EU directive 98/83 EC.

3D097621

## HXHD200A8



#### NOTES

- The ESP curves are the maximum ESP curves, with and without domestic hot water tank installed on top of the indoor unit (pump rpm: 4000). The pump of the indoor unit is inverter-controlled and functions to have a fixed ΔT between the return water temperature and the leaving water
- 2. In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

ESP: External Static Pressure Flow: water flow through the unit

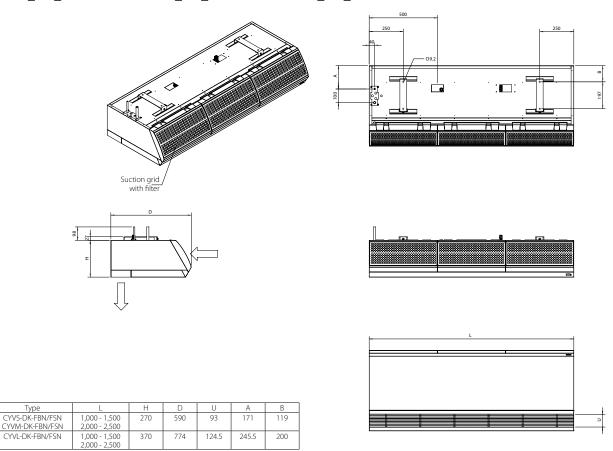
### **WARNING**

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specications. Water quality must be according to EU directive 98/83 EC.





## CYVS\_DK\_FBN/FSN / CYVM\_DK\_FBN/FSN / CYVL\_DK\_FBN/FSN

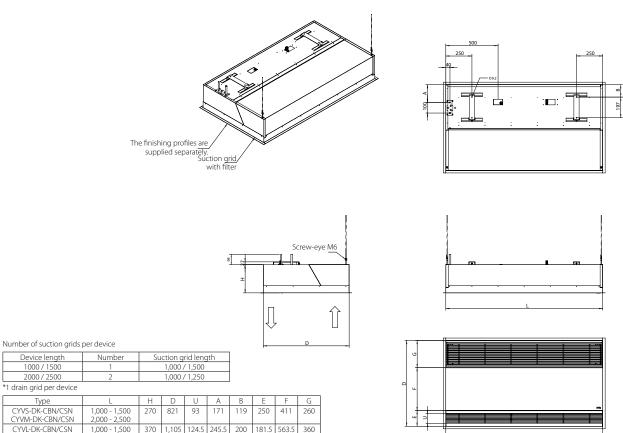


#### NOTES

1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

## CU0954X-000

## CYVS\_DK\_CBN/CSN / CYVM\_DK\_CBN/CSN / CYVL\_DK\_CBN/CSN

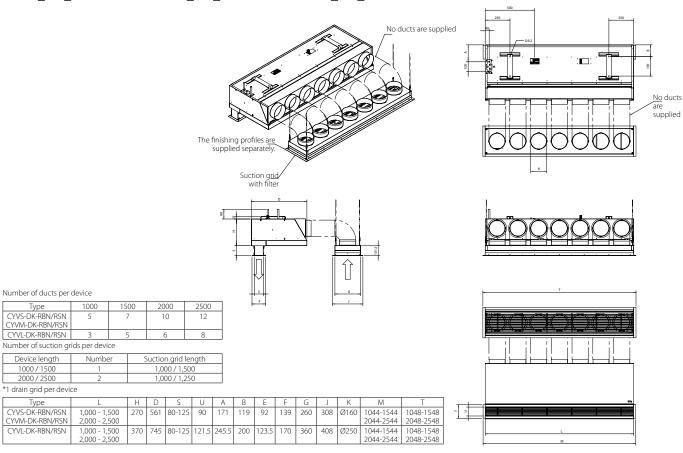


- 1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

  2. The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm



## CYVS\_DK\_RBN/RSN / CYVM\_DK\_RBN/RSN / CYVL\_DK\_RBN/RSN



### NOTES

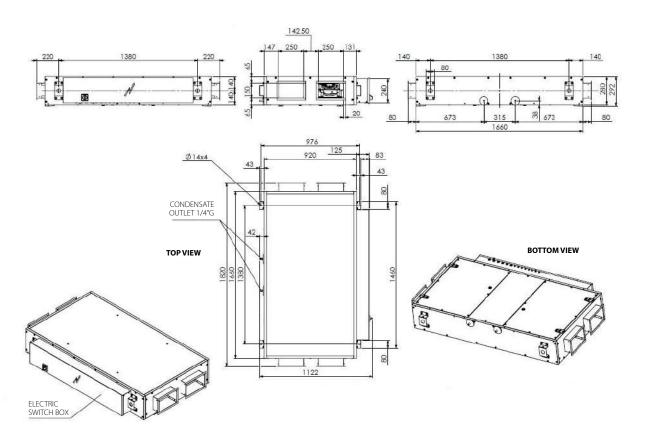
1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device. 2. Holes (for finishing profiles) - drain (L+8)  $\times$  (E+8) mm - suction (L+8)  $\times$  (G+8) mm.

CU0956X-000

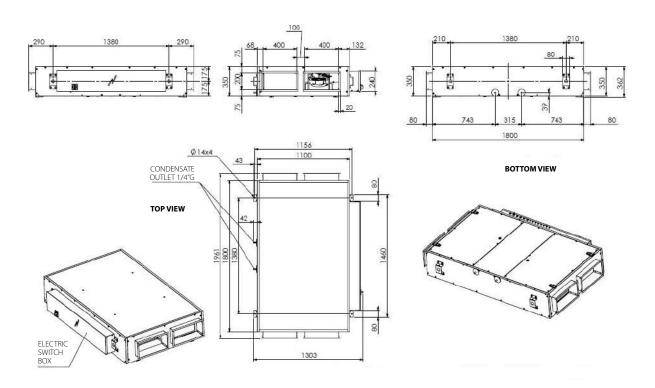




## ALB02RBS/LBS

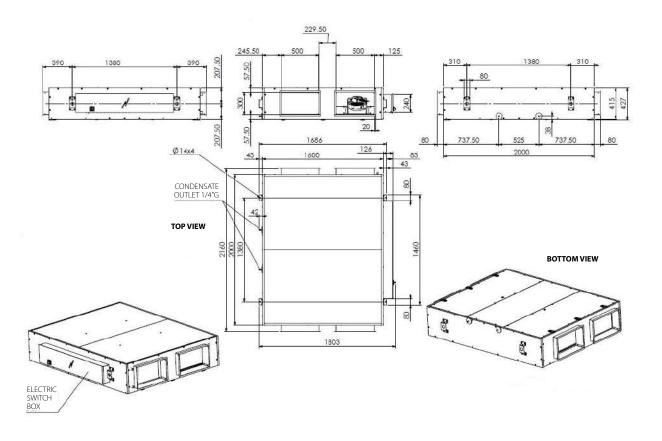


## ALB03RBS/LBS

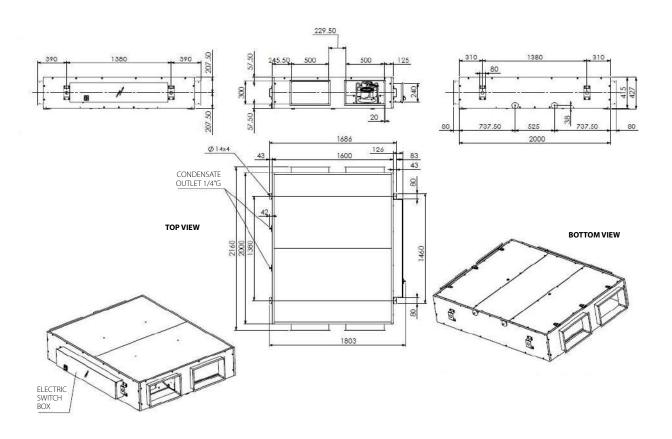




## ALB04RBS/LBS

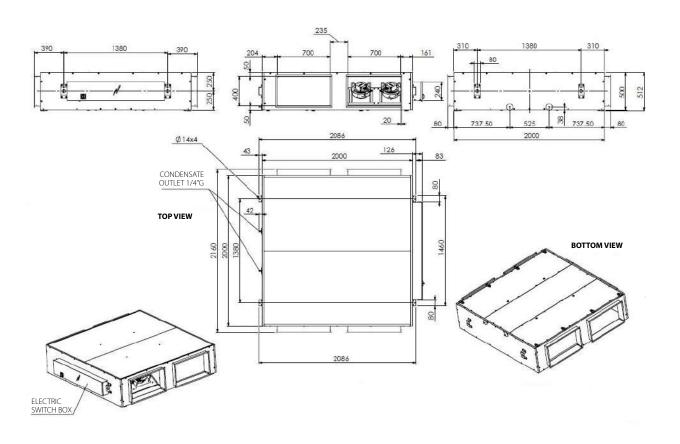


## ALB05RBS/LBS

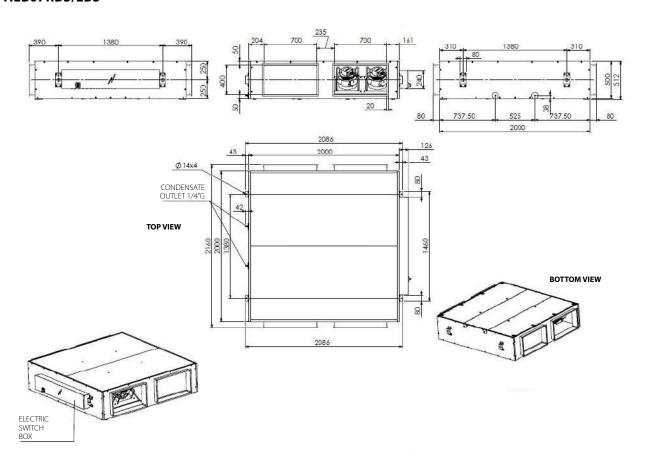




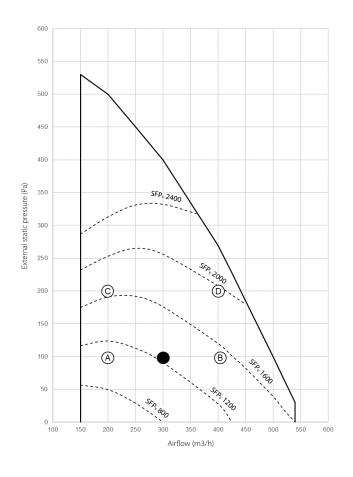
## ALB06RBS/LBS



## ALB07RBS/LBS



## ALB02RBS/LBS



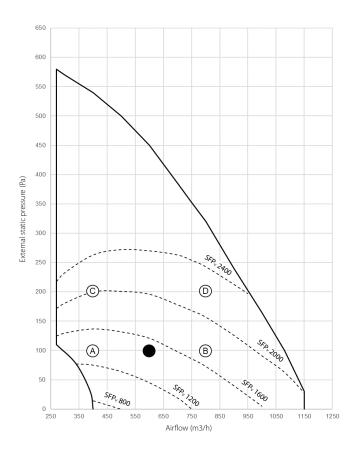
The diagram shows the available external pressure for the duct system given an airflow.

#### SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

## ALB03RBS/LBS



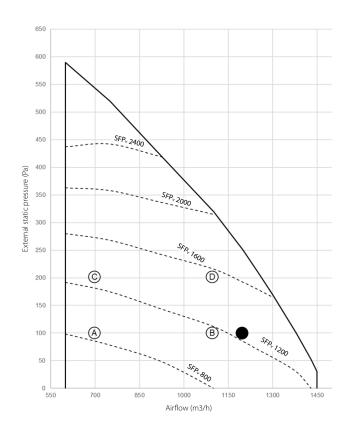
The diagram shows the available external pressure for the duct system given an airflow.

## SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

## ALB04RBS/LBS



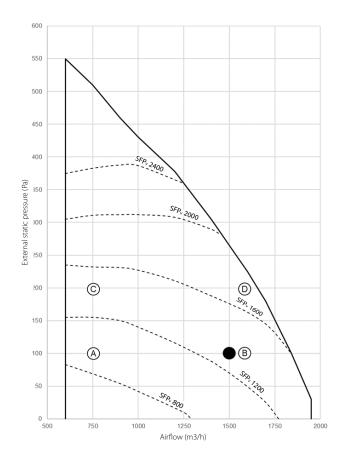
The diagram shows the available external pressure for the duct system given an airflow.

#### SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

## ALB05RBS/LBS



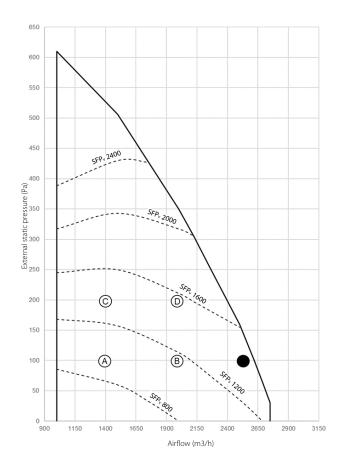
The diagram shows the available external pressure for the duct system given an airflow.

## SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

## ALB06RBS/LBS



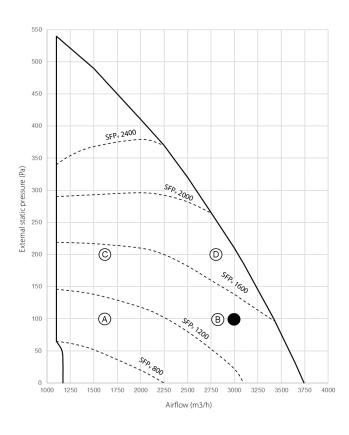
The diagram shows the available external pressure for the duct system given an airflow.

#### SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

## ALB07RBS/LBS



The diagram shows the available external pressure for the duct system given an airflow.

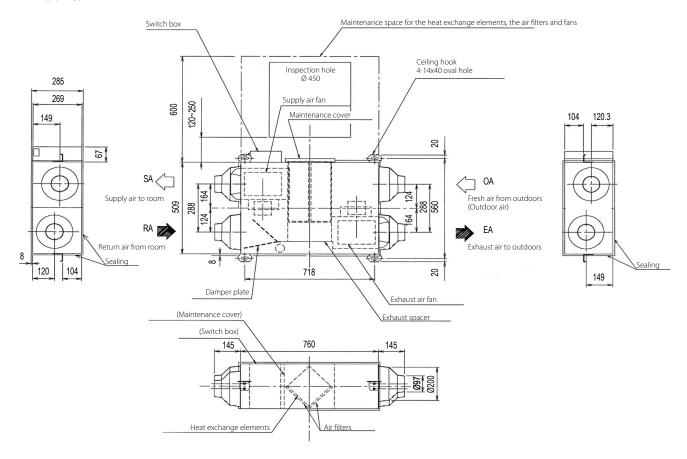
## SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point



## VAM150FC9

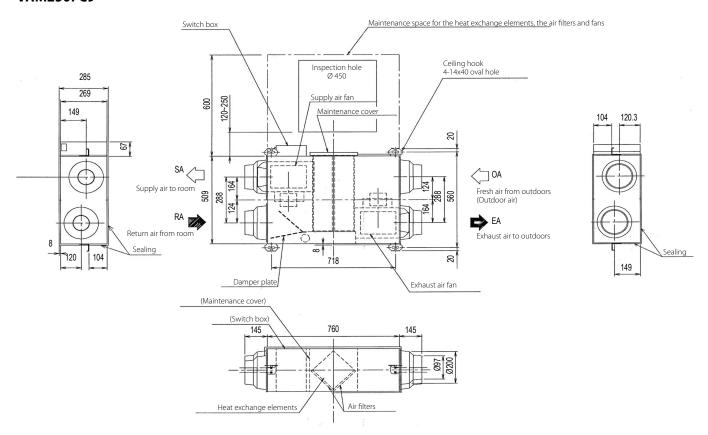


#### **NOTES**

1. Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27874-1

## VAM250FC9

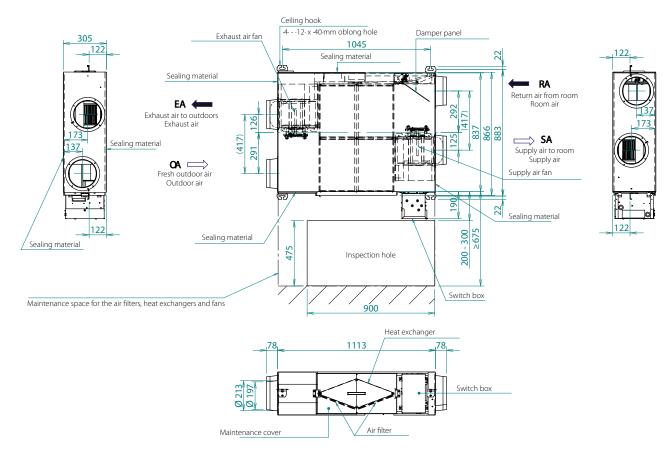


## NOTES

1. Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.



## VAM350-500J

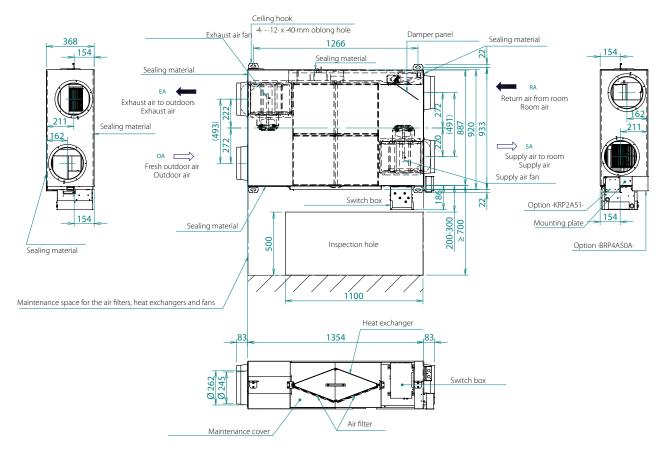


## **NOTES**

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112815C

## VAM650J

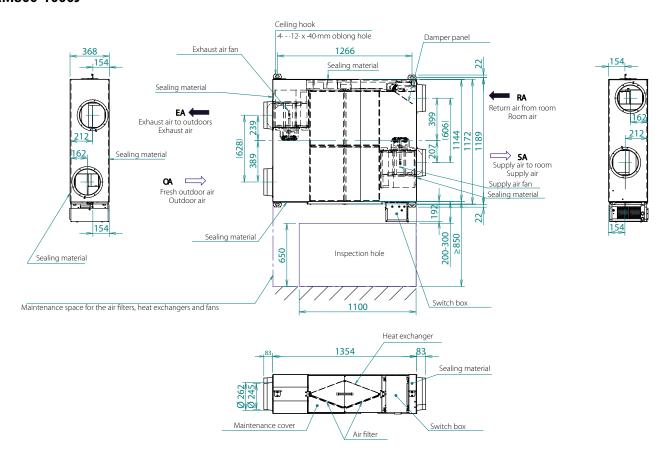


### **NOTES**

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.



## VAM800-1000J

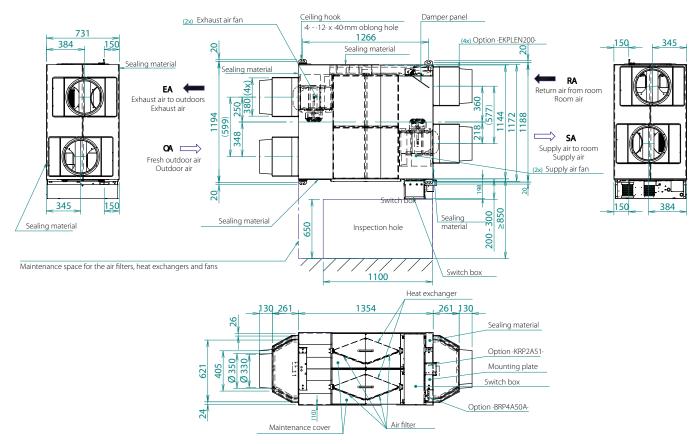


## NOTES

1. To perform maintenance on the air filter, it is required to provide a service access panel.

3D112817D

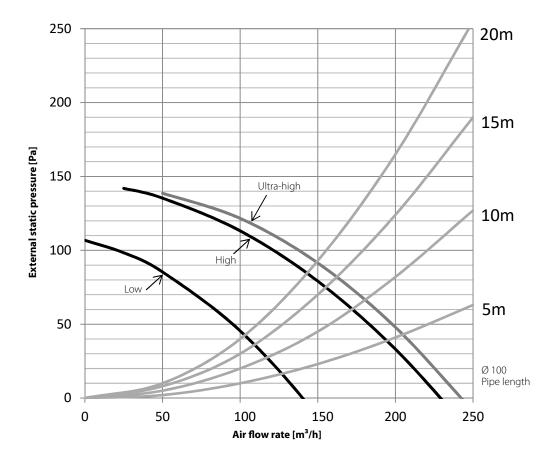
## VAM1500-2000J



## **NOTES**

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

## VAM150FC9

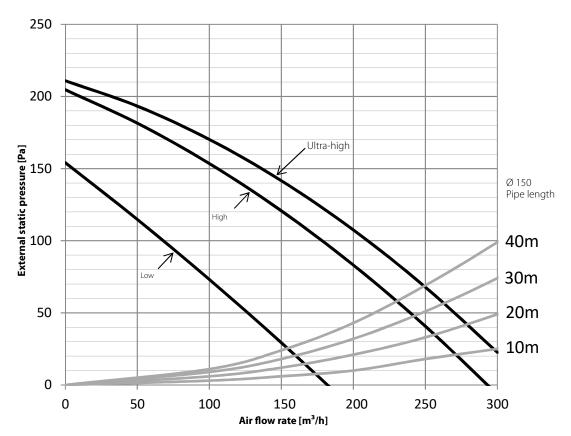


#### **NOTES**

1. The fan speeds are valid for ·230·V, ·50·Hz power supply.

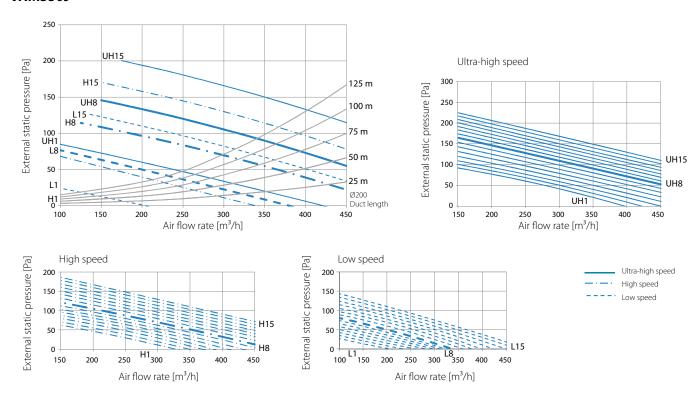
4D100379A

## VAM250FC



# CLICK HERE TO VIEW ALL VAM-J TECHNICAL DRAWINGS

#### VAM350J



#### NOTES

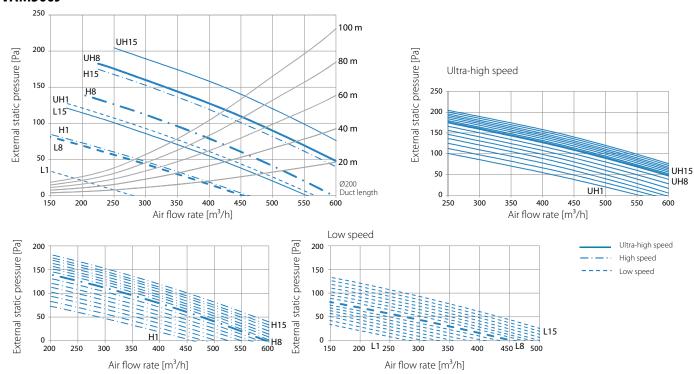
- 1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA·), and ·2/3· of the ESP on the indoor side (RA & SA·). EA = Exhaust air OA = Outdoor air
- A = Room air
  SA = Supply air
  2. Measured according to JIS B 8628 2003-

#### LEGEND

L1 = Low speed lower limitL8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D113493A

## VAM500J



#### NOTES

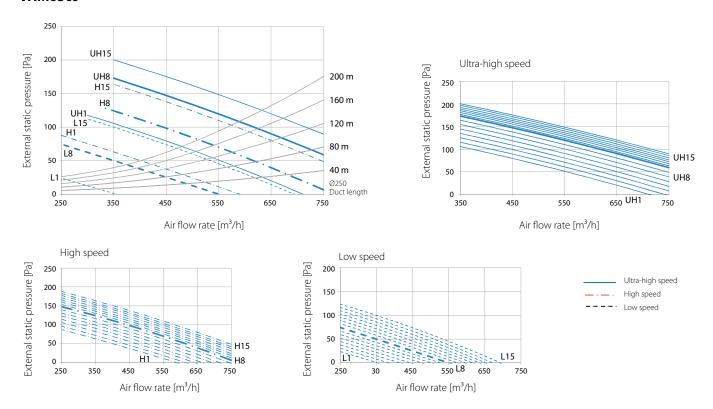
- 1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA), and ·2/3· of the ESP on the indoor side (-RA & SA-).
  - EA = Exhaust air
  - OA = Outdoor air
  - RA = Room air
- SA = Supply air 2. Measured according to JIS B 8628 2003

#### LEGEND

- L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting
- H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit



#### VAM650J



#### NOTES

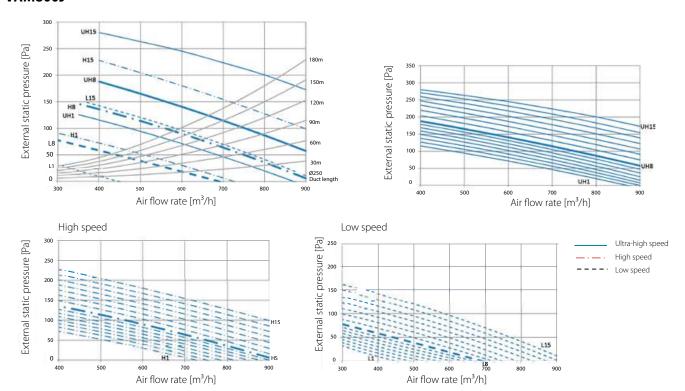
- 1. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).
- EA = Exhaust air OA = Outdoor air
- RA = Room air
  SA = Supply air
  2. Measured according to JIS B 8628 2003-

#### LEGEND

L1 = Low speed lower limitL8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D113495A

## VAM800J



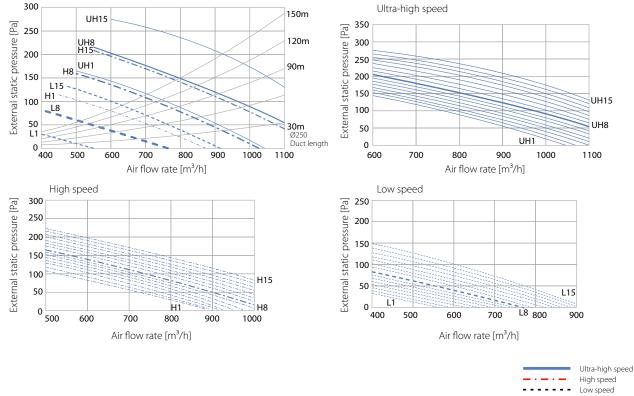
- 1. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA). EA = Exhaust air OA = Outdoor air RA = Room air
- SA = Supply air
- 2. Measured according to JIS B 8628 2003-

## LEGEND

- L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting
- H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

# CLICK HERE TO VIEW ALL VAM-J TECHNICAL DRAWINGS ON MY.DAIKIN.EU

## **VAM1000J**



#### NOTES

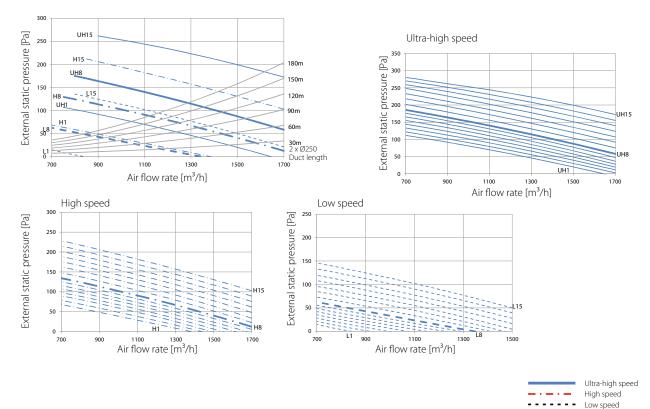
- 1. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA). EA = Exhaust air
  - OA = Outdoor air
- RA = Room air SA = Supply air
- 2. Measured according to JIS B 8628 2003

#### LEGEND

L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D112832

## **VAM1500J**



#### NOTES

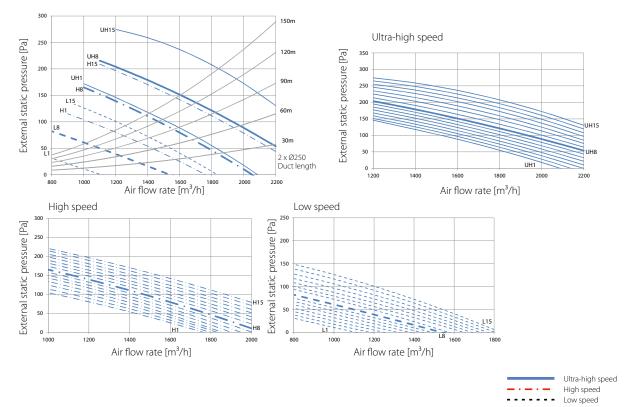
- I. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).

  EA = Exhaust air
  OA = Outdoor air
- OA = Outdoor ai RA = Room air SA = Supply air
- SA = Supply air
  2. Measured according to JIS B 8628 2003-

#### LEGEND

L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

## **VAM2000J**



#### NOTES

I. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).

EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
2. Measured according to JIS B 8628 - 2003-

#### LEGEND

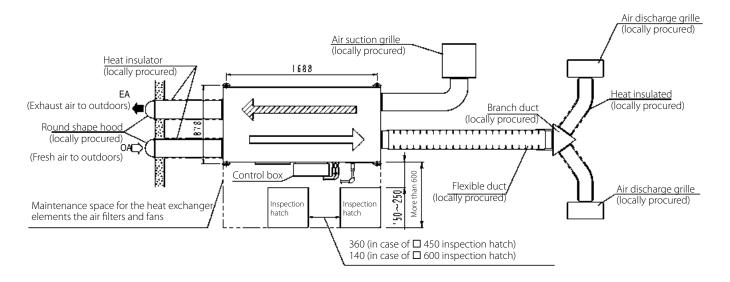
L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting

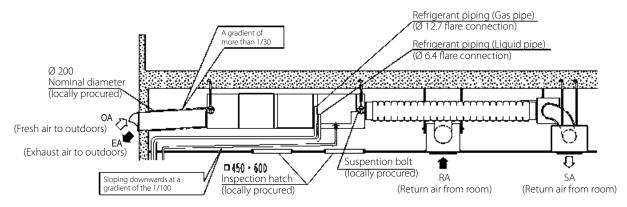
H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D112839



#### VKM50GB

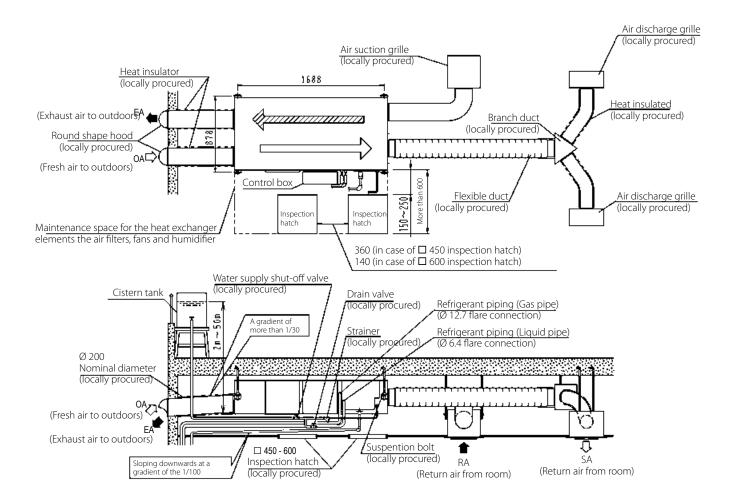




- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation.(Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 5. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 6. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 8. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.



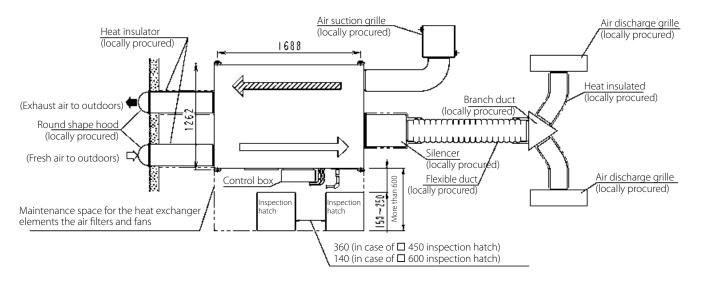
## VKM50GBM

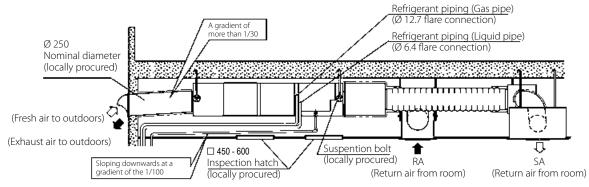


- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Use city water or clean water.
  - Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
- 5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supply piping to prevent condensation from forming.
- 9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 11. Install in a location where the air around the unit or taken into the umidifier will not drop below 0°C
- 12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- 13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
- 15. Feed clean water. If the supply water is hard water, use a water softener because of short life.

  Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)

## VKM80GB

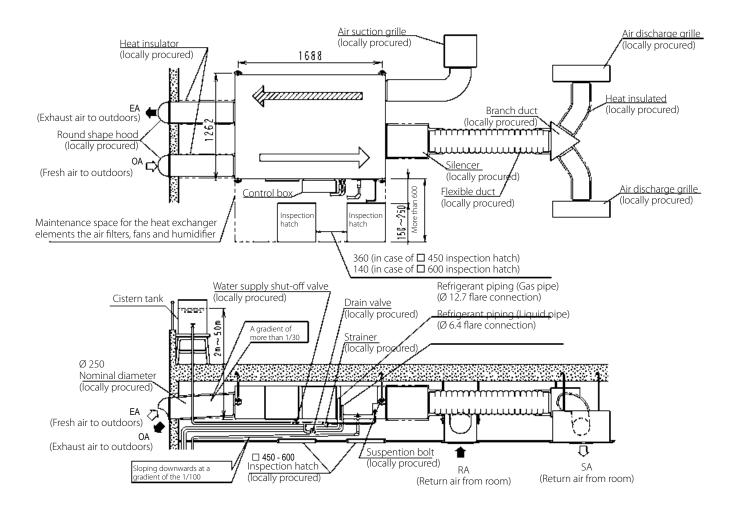




- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 5. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 6. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 8. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.



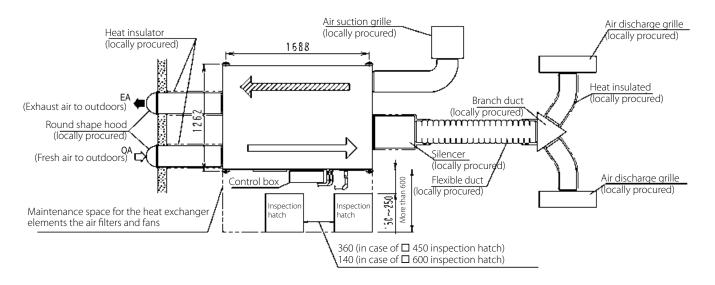
#### VKM80GBM

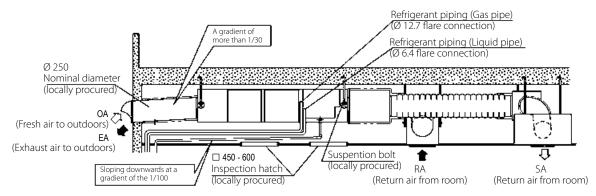


- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Use city water or clean water.
  - Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
- 5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supply piping to prevent condensation from forming.
- 9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 11. Install in a location where the air around the unit or taken into the umidifier will not drop below 0°C.
- 12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- 13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
- 15. Feed clean water. If the supply water is hard water, use a water softener because of short life.

  Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)

## VKM100GB

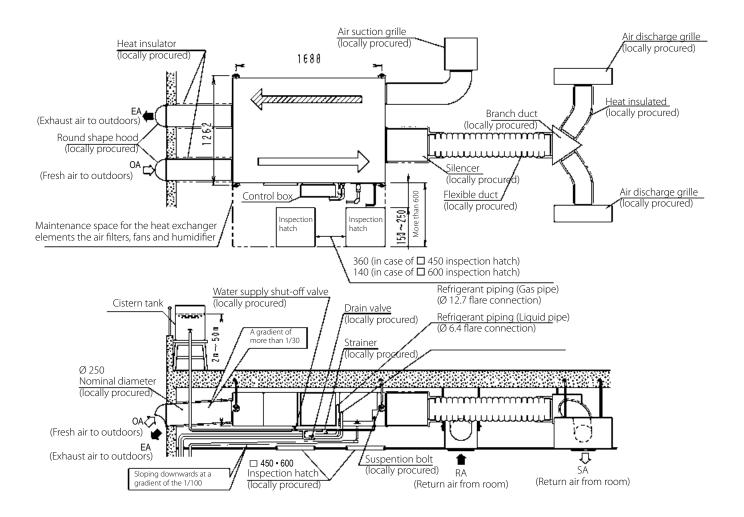




- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 5. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 6. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 8. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.



## VKM100GBM

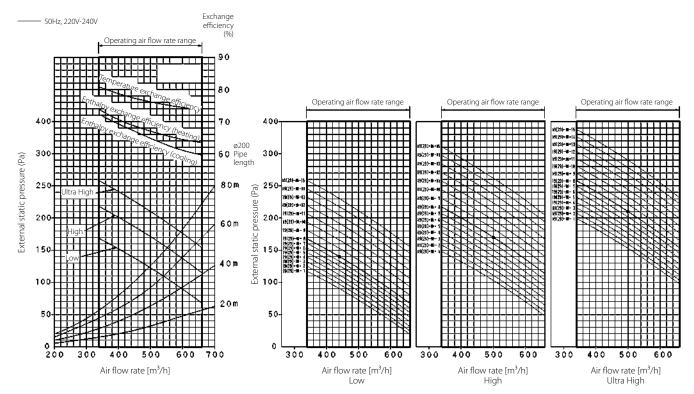


- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters, heat exchange elements, fans and humidifier elements can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water. Also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Use city water or clean water.
  - Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
- 5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supply piping to prevent condensation from forming.
- 9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 11. Install in a location where the air around the unit or taken into the umidifier will not drop below 0°C
- 12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- 13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
- 15. Feed clean water. If the supply water is hard water, use a water softener because of short life.

  Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)

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## VKM50GB



## [READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-X-07

Mode no. : 19(29)

First code: \* (Supply [2] Exhaust [3])

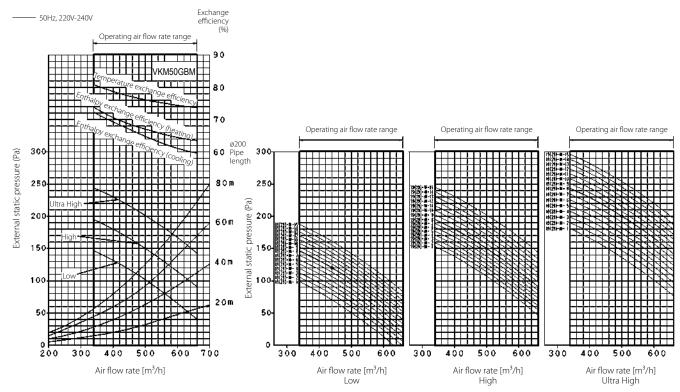
Second code no.: 07

2. Rated point: ●

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082904

## VKM50GBM



## [READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-**\***-07

Mode no.: 19(29)

First code: \* (Supply [2] Exhaust [3])
Second code no.: 07

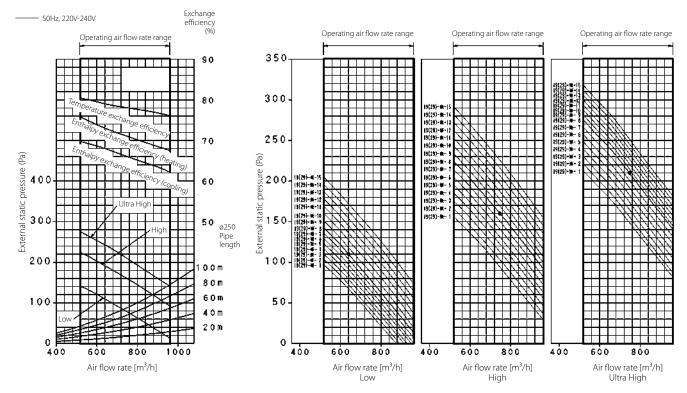
2. Rated point: •

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082901



#### VKM80GB



## [READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-X-07

Mode no. : 19(29)

First code: \* (Supply [2] Exhaust [3])

Second code no.: 07

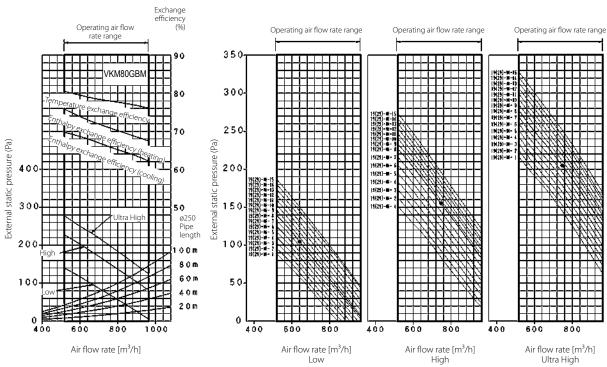
2. Rated point: •

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082905

## VKM80GBM

----- 50Hz, 220V-240V



## [READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-X-07

Mode no.: 19(29)

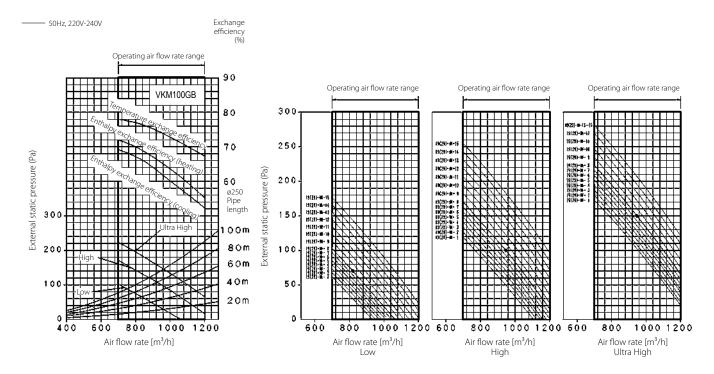
First code: **\*** (Supply [2] Exhaust [3]) Second code no.: 07

2. Rated point: ●

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

# CLICK HERE TO VIEW ALL VKM-GB TECHNICAL DRAWINGS ON MY.DAIKIN.EU

#### VKM100GB



#### [READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-X-07

Mode no. : 19(29)

First code: \* (Supply [2] Exhaust [3])

Second code no.: 07

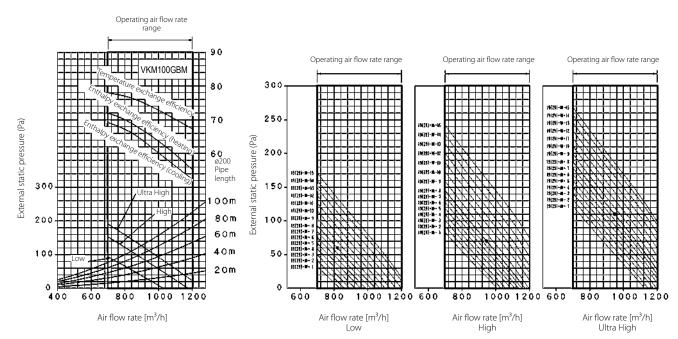
2. Rated point: ●

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082906

## VKM100GBM

—— 50Hz, 220V-240V Exchange efficiency



## [READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-X-07

Mode no.: 19(29)

First code: **X** (Supply [2] Exhaust [3]) Second code no.: 07

2. Rated point: ●

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

## Power supply

T1 = 3~, 220V, 50Hz V1 = 1~, 220-240V, 50Hz

**VE** = 1~, 220-240V/220V, 50Hz/60Hz\*

 $V3 = 1\sim, 230V, 50Hz$ 

VM = 1~, 220~240V/220~230V, 50Hz/60Hz

W1 =  $3N\sim$ , 400V, 50Hz Y1 =  $3\sim$ , 400V, 50Hz

# Conversion table refrigerant piping

inch	mm
1/4"	6.4 mm
3/8″	9.5 mm
1/2″	12.7 mm
5/8″	15.9 mm
3/4″	19.1 mm
<sup>7</sup> / <sub>8</sub> "	22.2 mm
1 ¹/8″	28.5 mm
1 ³/8″	34.9 mm
1 <sup>5</sup> /8″	41.3 mm
1 3/4"	44.5 mm
2″	50.8 mm
2 1/8"	54 mm
2 5/8"	66.7 mm

## F-gas regulation

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations. For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels and in the notes underneath the specification tables in this catalogue. For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases. The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane or carbon dioxide.

# Measuring conditions

## Air conditioning

1) Nominal cooling capacities are based on:				
Indoor temperature	27°CDB/19°CWB			
Outdoor temperature	35°CDB			
Refrigerant piping length	7.5m - 8/5m VRV			
Level difference	0m			
2) Nominal heating capacities are based on:				
Indoor temperature	20°CDB			
Outdoor temperature	7°CDB/6°CWB			
Refrigerant piping length	7.5m - 8/5m VRV			
Level difference	0m			

## Refrigeration

ZEAS Ch		ling	Evaporating temp10°C; outdoor temp. 32°C; Suction SH10°C	
	Freezing		Evaporating temp35°C; outdoor temp. 32°C; Suction SH10°C	
Conveni-Pack	Mix Air conditioning and refrigeration operating mode		Indoor temp. 27°CDB/19°CWB; outdoor temp. 32°CDB; piping length:7.5m; level difference: 0m; refrigeration side: Evaporating temp10°C; outdoor temp. 32°CDB; Suction SH: 10°C	
	Mix heating and refrigeration operating mode (Heating recovery 100% mode)		Indoor temp. 20°C; outdoor temp. 7°CDB,6°CWB; advertised refrigerant load (Evaporating temp10°C; Suction SH: 10°C); piping length:7.5m; level difference: 0m	
Booster unit			Evaporating temp35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge pressure of booster unit -10°C	
CCU/SCU	Medium temperature application		Medium temperature application: Outside ambient temp. 32°C; Evaporating temp. = -10°C and 10K superheat;	
	Low temperature application		Low temperature application: Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature	
Zanotti	Uni-Block, Bi-Block, Wineblock	High temperature	When normally running: +10°C/+30°C	
		Medium temperature	When normally running : 0°C / 30°C	
		Low temperature	When normally running : -20°C / +30°C	
	CU (one , twin, and more compressor(s))	Medium temperature	Outside ambient temp. 32°C; Evaporating temp. = -10°C and 20°C suction gas temperature	
		Low temperature	Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature	

## Applied systems

Air cooled	Coolin	g only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	11	Heat pump	Evaporator: 12°C/7°C	Ambient: 35°C
	неат		Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
Water cooled	Coolin	a only	Evaporator: 12°C/7°C	
	Coolin	gonly	Condenser: 30°C/35°C	
	Heatin	Heating only	Evaporator: 12°C/7°C	
	пеаш	gonly	Condenser: 40°C/45°C	
Condenserless chiller		Evaporator: 12°C/7°C		
		Condensing temperature: 45°C / liquid temperature: 40°C		
Fan coil units	Coo	ling	Indoor temperature 27°CDB, 19°CWB; entering water temperature 7°C, water temperature rise 5K	
	Hankin n	2-pipe	Indoor temperature 20°CDB, 15°CW	/B; entering water temperature 45°C, water temperature drop 5K
	Heating	4-pipe	Indoor temperature 20°CDB, 15°CW	B; entering water temperature 65°C, water temperature drop 10K
Air Handling Units		Temperature and humidity conditions: Extract air 22°C / 50%: Fresh air -10°C / 90%		

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.

<sup>\*</sup> For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.



Determined to reduce our environmental footprint, we aim to be CO<sub>2</sub>-neutral by 2050. A circular economy, innovation and smart use – these are the stepping stones on our path.

The time to act is now. Join us in creating a sustainable future for HVAC-R.

## Sowing the seeds of climate protection with Daikin



## Through a circular economy

- > Embrace Certified Reclaimed Refrigerant Allocation to reuse more refrigerant
- > Increase recovered refrigerant returns
- Reuse refrigerant for maintenance with our refrigerant recycling machine



## Through innovation

- > Equip our VRV 5 range with the lower GWP refrigerant R-32
- > Offer high real-world seasonal efficiencies
- Deploy unique auto cleaning filters to maximise efficiency 24/7

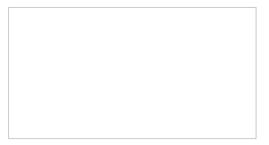


## Through smart use

- > Rigorously follow up on energy consumption via the Daikin Cloud Service
- > Factor in experts' advice to continuously optimise system efficiency
- > Enable predictive maintenance to ensure optimum operation and uptime
- > Prevent energy waste with smart key cards and sensors

## www.daikin.eu/building-a-circular-economy

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