

VRV

Product catalogue 2020
for professionals

Includes
NEW VRV 5!

CIRCULAR ECONOMY

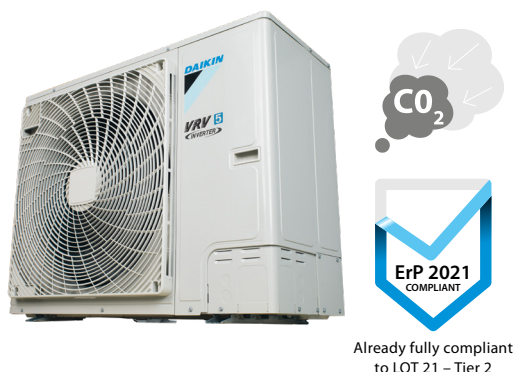
INNOVATION

SMART USE

Designed for the future

What's new?

VRV 5 S-series **BLUEEVOLUTION**



RXYSA-AV1 / AY1

p. 35

Designed for the future

- › Maximum flexibility allowing installation in rooms down to 10 m²
- › 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

LOOP BY DAIKIN

L∞P by Daikin

Reuse refrigerant to avoid more than 150,000 kg 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

Madoka



Silver
RAL 9006 (metallic)
BRC1H519S7



Black
RAL 9005 (matte)
BRC1H519K7



White
RAL9003 (glossy)
BRC1H519W7

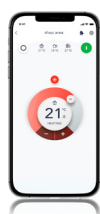
Wired remote controller

BRC1H52W/S/K

p. 170

With new functionalities

- › New symbolic view display option
- › Save field settings and schedules on your phone and upload them to multiple controllers



amazon alexa

works with the
Google Assistant

Online controller for VRV

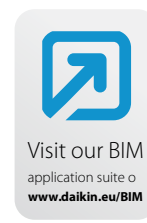
BRP069C51

p. 166

Intuitive online and voice control

- › Control your system by voice, via Amazon Alexa or Google Assistant
- › Interfaces with home control systems
- › Available on all new R-32 VRV indoor units

VRV



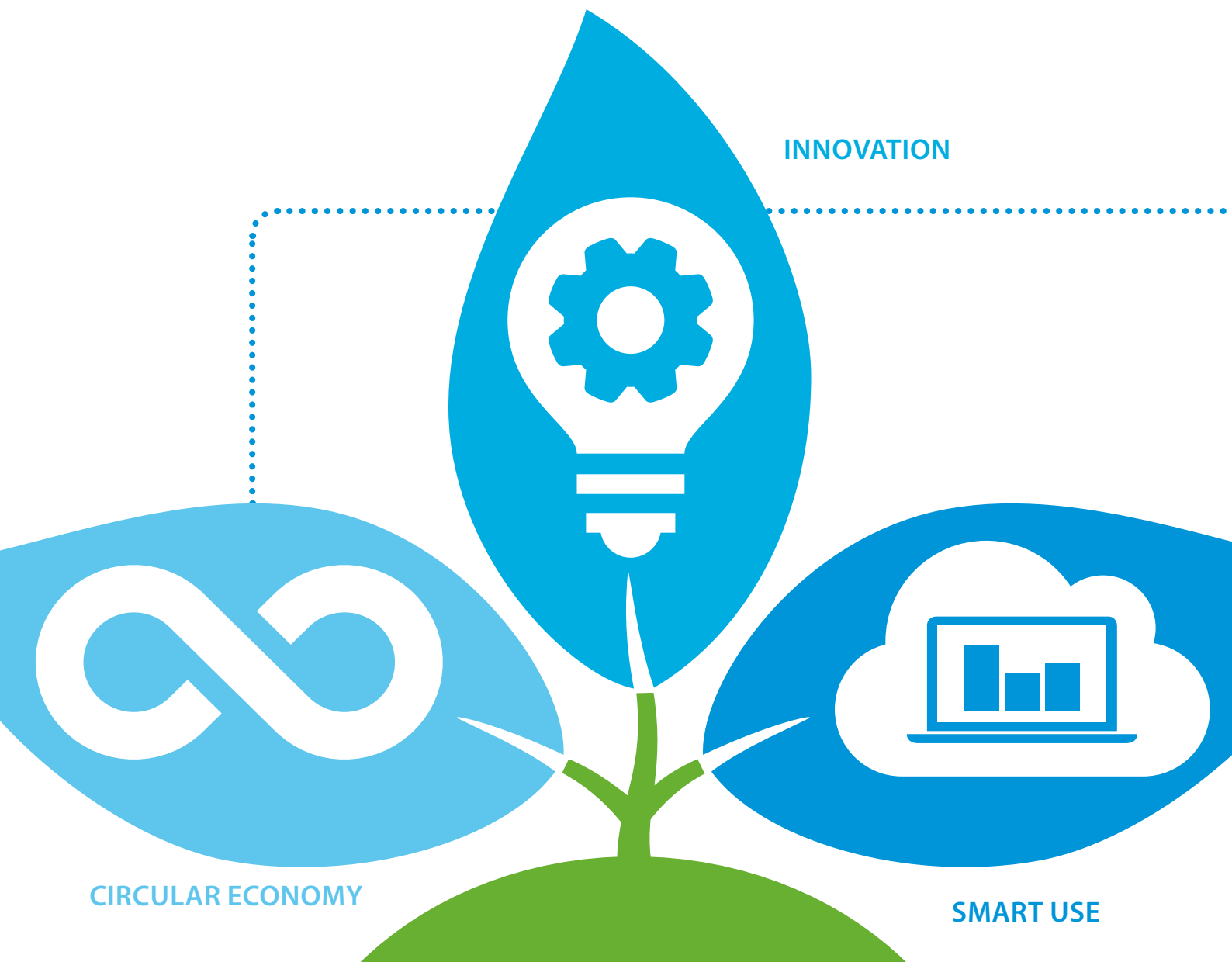
Maximum flexibility, minimum concern;
As it should be.

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Creating a sustainable future together

Determined to reduce our environmental footprint, we aim to be CO₂-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.

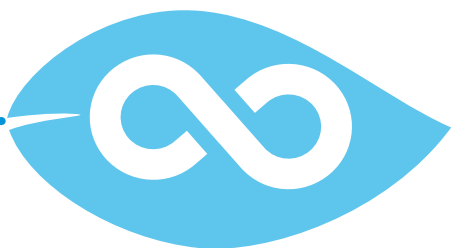


www.daikin.eu/building-a-circular-economy

LOOP

BY DAIKIN

Towards a circular economy of refrigerants



Reusing refrigerant, avoiding more than 150,000 kg of virgin gas being produced each year.



Make a positive choice to reduce the environmental impact of your air conditioning systems. Exclusive to Daikin, a substantial amount of reclaimed refrigerant is now used in our units and:

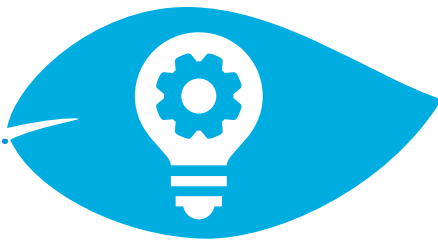
- › Is independently certified as the same quality as virgin refrigerant
- › Has zero impact on F-gas quota, as reclaimed and reused within Europe
- › Is administratively allocated to VRV units produced and sold in Europe
- › Supports the development of a circular economy in our industry

Reuse refrigerant and turn waste into an asset

- › Create your own circular economy and reduce costs
- › Portable unit for easy transport
- › Optimum purification



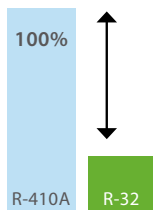
Through
innovation



Striving to become the lowest
CO² equivalent manufacturer



VRV 5 S-series
BLUEEVOLUTION



-71%
potential global warming impact

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

Through
smart use



Control, monitor and optimize 24/7



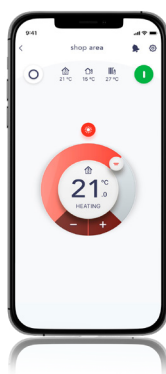
Rigorously follow up on energy consumption via the Daikin Cloud Service

- › 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



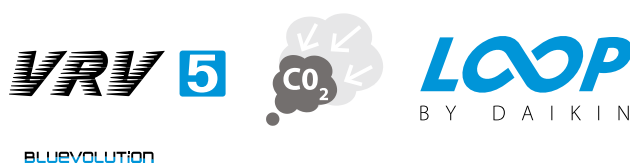
Stay in control no matter
where you are

- › Prevent unnecessary energy use by remote control of your system
- › Intuitive voice control

9 reasons why VRV is unique in the market

1 Leader in sustainability

- NEW**
- › VRV 5: Completely new and dedicated R-32 mini VRV design
 - Less refrigerant charge
 - Higher efficiency
 - Lower CO₂ equivalent
 - › L∞P by Daikin: the creation of a circular economy of refrigerants
 - Saves over 150,000 kgs of virgin refrigerant being produced every year



2 Efficiency

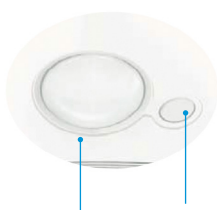
- › Variable Refrigerant Temperature for high seasonal efficiency
- › Round flow cassette and concealed ceiling units with auto cleaning filter
- › The best partner for your BREEAM, LEED or Well project

BREEAM®



3 Comfort

- › 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



PRESENCE SENSOR FLOOR SENSOR

4 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



5 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



6 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



7 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



8 Inventor

- › 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, ...



9 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

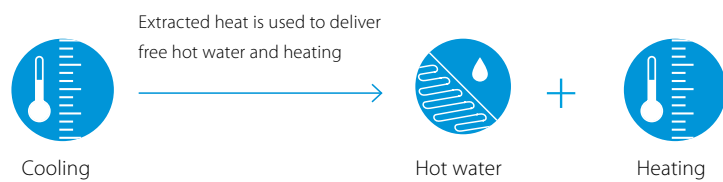


Which VRV

system offers me the best solution?

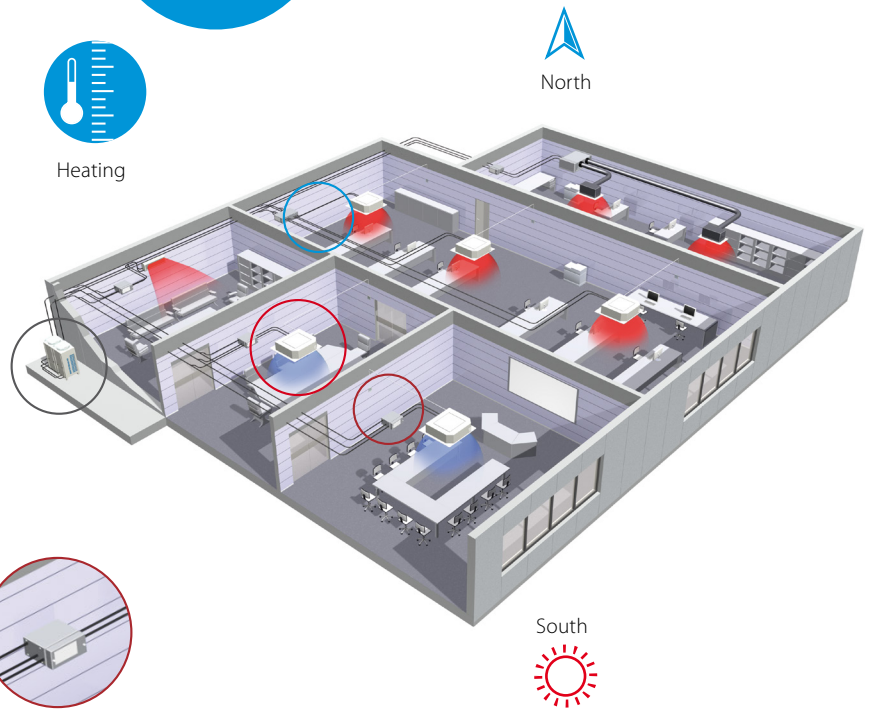
Heat recovery or heat pump?

VRV Heat recovery

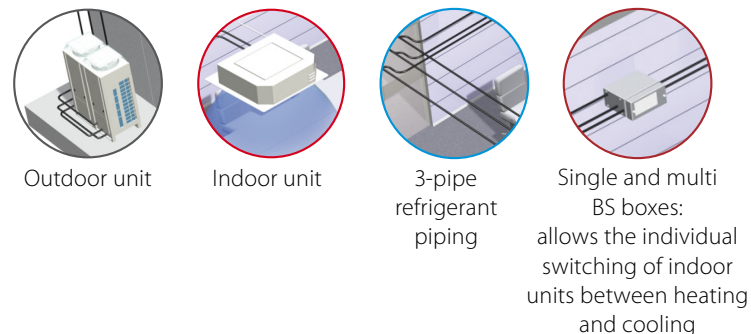


Additional credits for green building certificate

- › Simultaneous heating **AND** cooling from one system
- › "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*



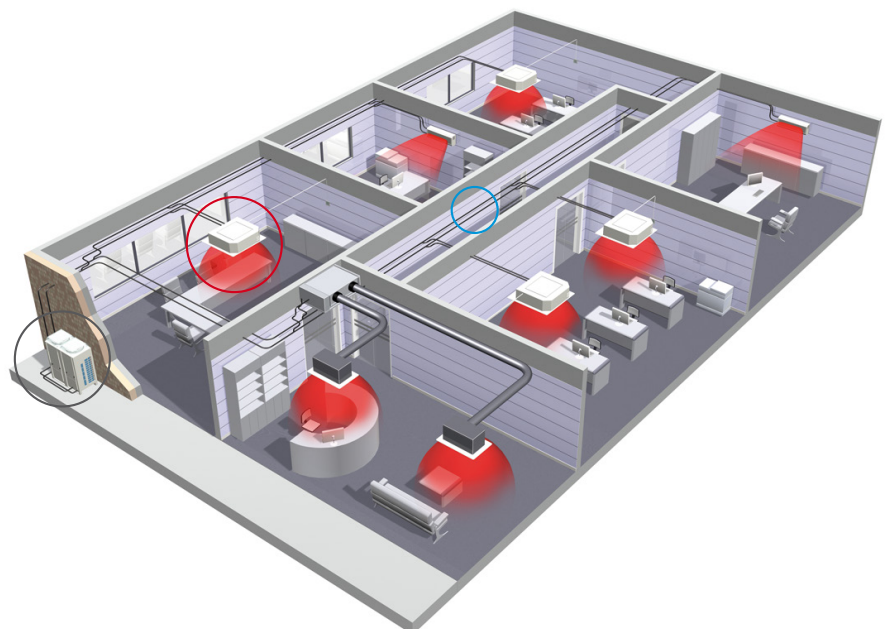
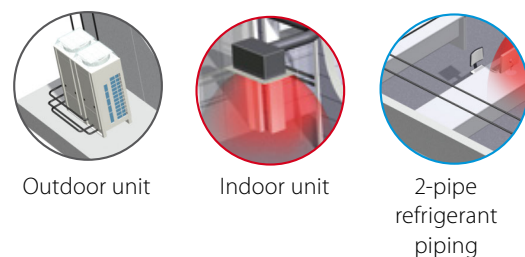
Components:



VRV Heat pump

- › For either heating **OR** cooling operation from one system

Components:



* According to the Franklin + Andrews construction economics

Air cooled or water cooled?

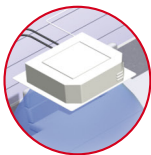
Air Cooled

- › 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

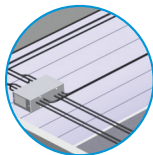
Components:



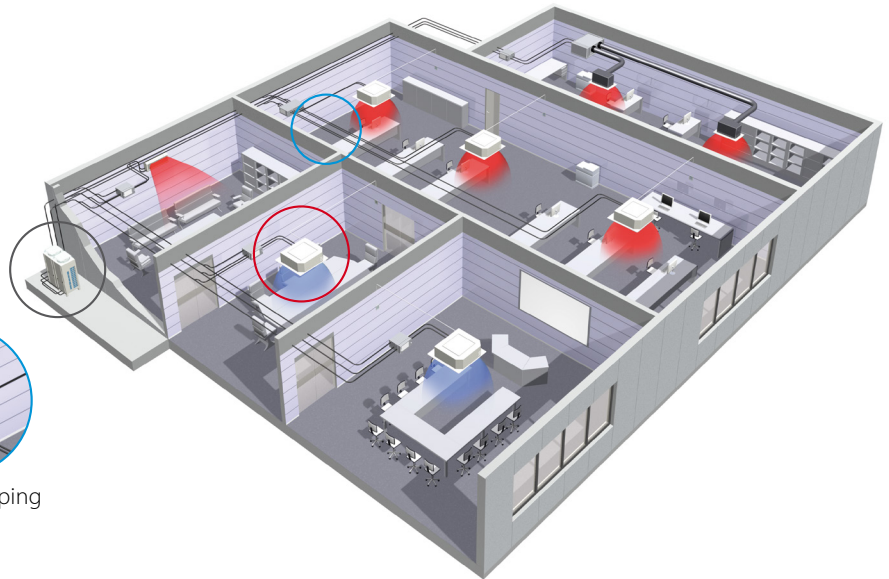
Outdoor unit



Indoor unit



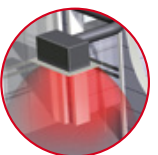
Refrigerant piping



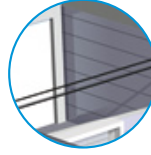
Water Cooled

- › Suitable for high rise and large buildings because of the nearly unlimited possibilities of water piping
- › Not affected by outdoor temperature/climate conditions
- › Reduce CO₂ emissions 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

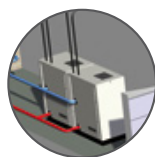
Components:



Indoor unit



Refrigerant piping



Outdoor unit



(Geothermal) water loop

Additional credits for green building certificate



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

70%

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

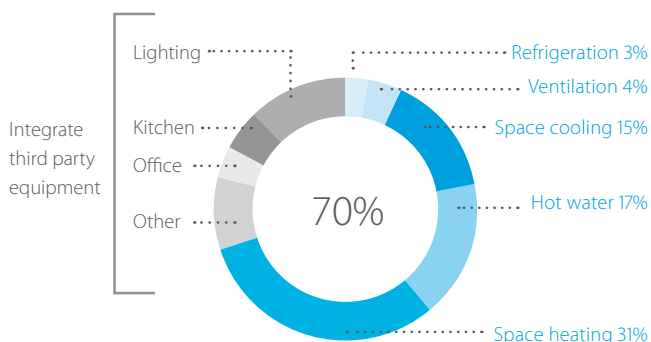


› **Cooling** for server rooms, telecom shelters, ... via VRV heat recovery or Sky Air units

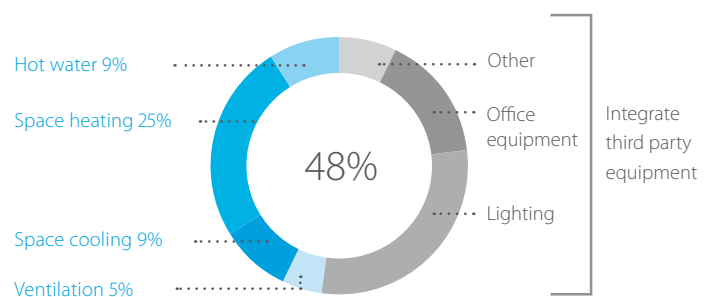


› **Refrigeration** via our VRV based refrigeration units

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

Hospitality with economy

"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"





VRV standards & technologies

Our VRV systems set pioneering standards in all-round climate comfort performance. Total design simplicity, offering rapid installation, full flexibility as well as absolute efficiency and comfort. Find out about all these revolutionary changes at

www.daikin.eu/VRV

VRV

core technologies

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Outer rotor DC fan motor	21
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Unique 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.

UNIQUE

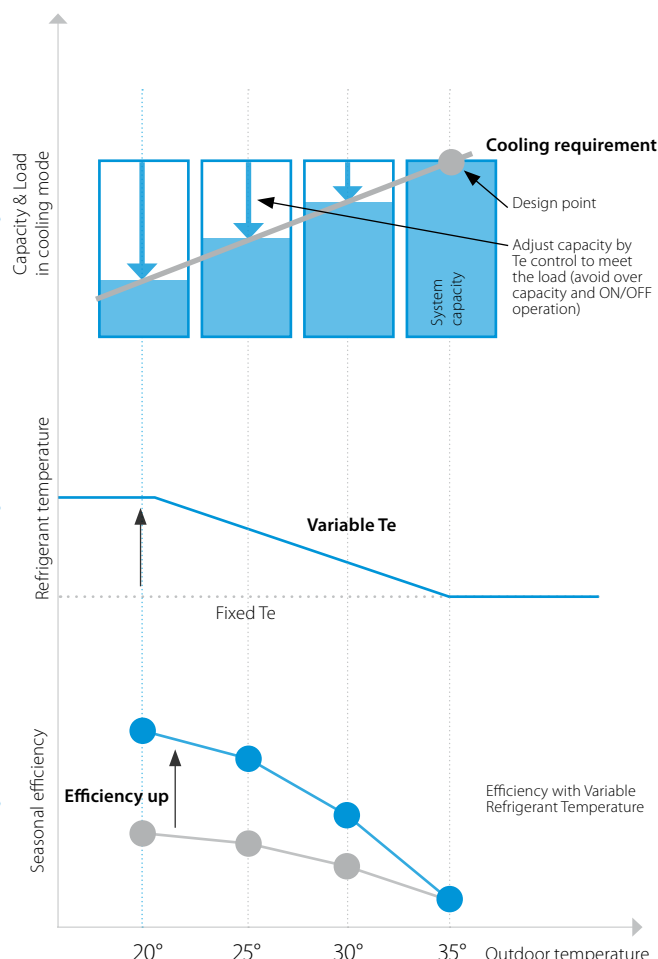
UNIQUE

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

The colder it gets the lower the cooling need of the building

The lower the capacity need, the higher the refrigerant temperature can be

The higher the refrigerant temperature, the higher the efficiency



Calculate the benefit of variable refrigerant temperature for your project in our seasonal solutions calculator:

<http://extranet.daikineurope.com/en/software/downloads/solutions-seasonal-simulator/default.jsp>

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%.

How effective is the VRV IV⁺ heat pump technology?

The trial demonstrated that by using air, an infinitely renewable and free energy source, the VRV IV⁺ system provides a complete and environmentally sustainable solution for heating, cooling and ventilation in commercial applications. The trial also showed that only by monitoring climate control systems carefully and intelligently businesses can identify and control energy waste.

Contact Daikin for more information about monitoring services.

8 Different modes to maximise efficiency and comfort

For maximum energy efficiency and customer satisfaction, the outdoor unit needs to adapt the evaporating/condensing temperature at the optimum point for the application.



Check on
YouTube

<https://www.youtube.com/DaikinEurope>

How to set the different modes?

6
patents

Set up the main operation mode of the system	Define how the system reacts to changing loads	
Step 1 Automatic* Evaporating AND condensing temperature automatically selected according to ambient temperature Quick reaction speed Top efficiency  The perfect balance: Achieves top efficiency throughout the year, reacts quickly on the hottest days	Step 2 Powerful Quick Mild *	Where a quick increase of load is expected such as conference rooms. Quick reaction speed to changing load has priority, with temporarily colder outblow as a result. Same as above but slower response than the powerful mode. This mode would be suitable for most office applications and it is the factory set mode. The perfect balance: Slower reaction speed with top efficiency
High sensible Target Te can be selected between 7°C to 11°C Quick reaction speed Top efficiency  Year round top efficiency	Powerful Quick Mild Eco	Gives customer choice for fixing coil temperature which avoids cold draughts. A quick reaction speed to changing load has priority, with temporarily colder outblow as a result. Same as above but slower response. The air off temperature remains fairly constant. Suitable for low ceiling rooms. Coil temperature would not change due to fluctuating load. Suitable for computer or low ceiling rooms.
Basic Current VRF standard	No submodes	This is how most other VRF systems work and can be used for all general type of applications.

* Factory setting

	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: 607m²
- › 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.

Real continuous heating

during defrost mode

VRV IV⁺ 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.



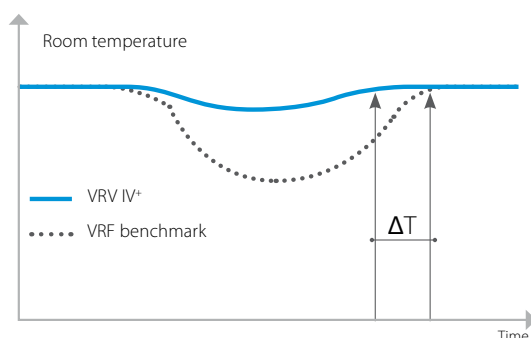
Check on
You Tube

<https://www.youtube.com/DaikinEurope>

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

Heat pumps are known for their high energy efficiency in heating, but frost is accumulated on their heat exchanger during heating operation and this must be melted periodically using a defrost function that reverses the refrigeration cycle. This causes a temporary temperature drop and reduced comfort levels inside the building.

Defrosting can take over 10 minutes (depending on the size of the system) and occurs mostly between -7 and +7°C when humidity levels in the air are high. Humidity freezes on the coil, resulting firstly in poor performance and eventually low comfort levels. The VRV IV⁺ has changed the heating paradigm by providing heat even during defrost operation thus diminishing the temperature drop indoors and providing comfort at all times.



How does it work?

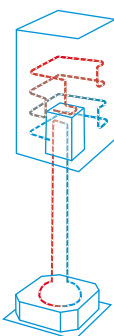
UNIQUE Heat accumulating element

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.

The outdoor unit coil is defrosted ...

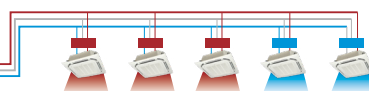
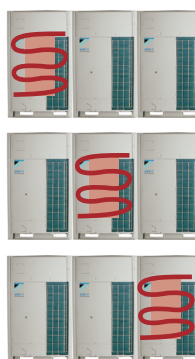
... with the energy stored in the heat accumulating element ...

... so a comfortable temperature is maintained indoors.



Alternate defrost

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



the outdoor unit coil is defrosted ...

... one at the time ...

... so a comfortable temperature is maintained indoors

Available on:

Heat pump
RYYQ8-20U

Water cooled VRV has no defrost cycles

Available on:

Heat pump	Heat recovery	Replacement VRV
RYYQ16-54U	REYQ10-54U	RXYQQ16-42U
		RQCEQ280-848P3

VRV Configurator

Software for simplified commissioning, configuration and customisation

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



Check on
You Tube

<https://www.youtube.com/DaikinEurope>

Configurator software for simplified commissioning

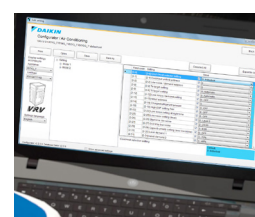
The VRV configurator is an advanced software solution that allows for easy system configuration and commissioning:

- › 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.



Simplified
commissioning

Retrieve initial system
settings

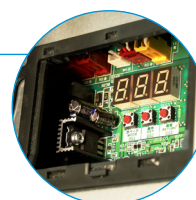


User friendly interface instead of
push buttons

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.

- › easy-to-read error report
- › clear menu indicating quick and easy on-site settings
- › indication of basic service parameters to quickly check basic functions: high pressure, low pressure, frequency and operation time history of compressors, temperature of discharge/suction pipe.
- › No need to unmount the big front panel of the unit thanks to the service access



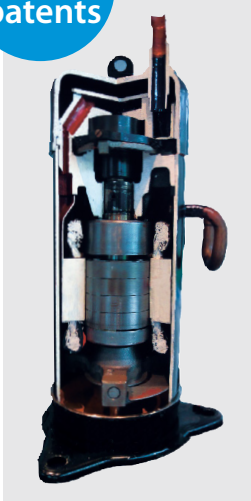
3 digit 7-segment display

Available on:

Heat recovery	Heat pump	Replacement VRV
REYQ-U	RYYQ-U	RXYQQ-U
	RXYQ-U	
	RXYSCQ-TV1 (only configurator, no 7 segment display)	
	RXYSQ-T8V/T8Y/TY1 (only configurator, no 7 segment display)	
	SB.RKXYQ-T(8) (only configurator, no 7 segment display)	

core technologies

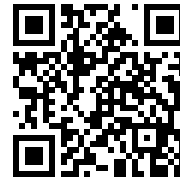
37
patents



UNIQUE

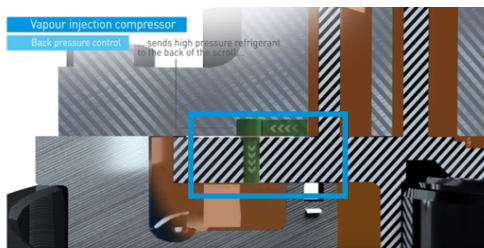
Scroll compressor Back pressure control

- › 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



Check on
You Tube

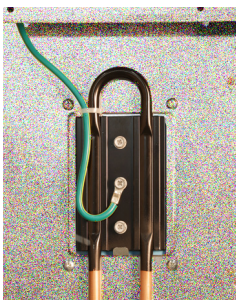
<https://www.youtube.com/DaikinEurope>



The back pressure control port sends high pressure refrigerant to the back of the scroll, preventing refrigerant leakage



Refrigerant leak at low load with conventional compressor

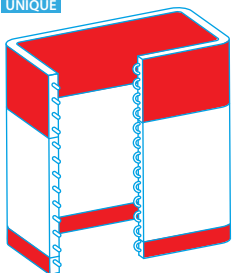


Refrigerant-cooled PCB

- › 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%

6
patents

UNIQUE



UNIQUE

4-sided, 3-row heat exchanger

- › Heat exchange surface up to 50% larger
- › (up to 235m²), leading to 30% more efficiency

10
patents

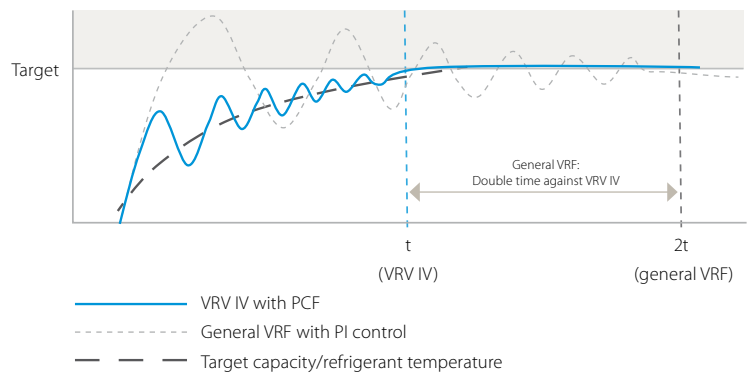


UNIQUE

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.



VRV IV: PCF

Compressor works with predictive data for the control

- › result: quick convergence to the target temperature and reduction of waste operation of the compressor

General VRF: Pi control

Compressor works with feedback only for the control

- › result: waste operation and longer time before reaching target set point

Half time against general VRF

UNIQUE

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

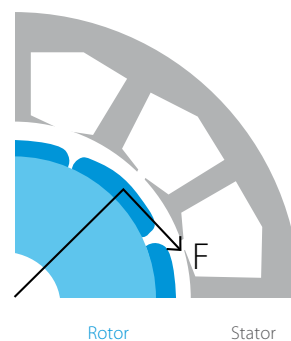
Sine wave DC inverter

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

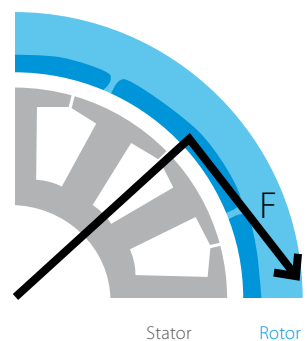
DC fan motor

The use of a DC fan motor offers substantial improvements in operating efficiency compared to conventional AC motors, especially during low speed rotation.

Conventional motor with inner rotor



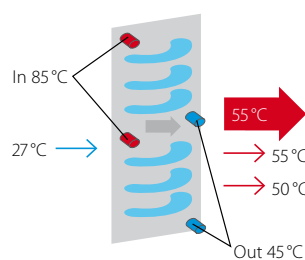
Daikin outer rotor



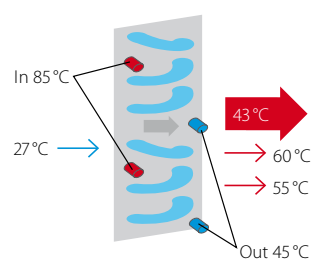
E-Pass heat exchanger

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.

Standard heat exchanger



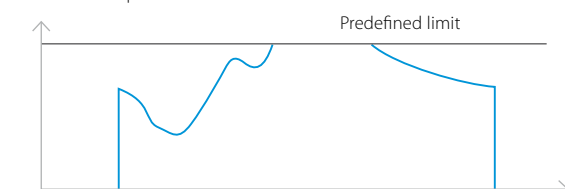
e-Pass heat exchanger



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.

Power consumption



Time



The VRV benefits

See how you can benefit from Daikin's highly flexible and efficiency product range

VRV

benefits

VRV benefits	23
Drastically reducing your running costs	24
Comfort guaranteed at all times	26
Great design flexibility	28
Fast installation and commissioning	30
Easy servicing	30

Drastically reducing running costs

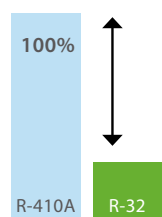
+ Top reliability

+ Up to 6 times greater resistance against corrosion

BLUEVOLUTION

Introducing R-32 refrigerant on VRV

- › Lower Global Warming Potential (GWP): only 1/3rd of R-410A
- › Lower refrigerant charge: 10% less compared to R-410A
- › Higher energy efficiency
- › Single component refrigerant, easy to handle and recycle



Potential global warming impact

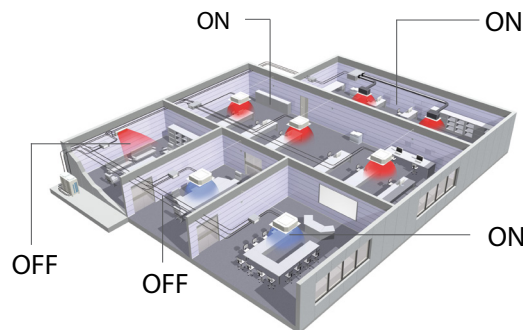
71%

-71%

potential global warming impact

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.



All inverter compressors

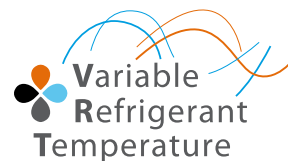
All inverter control compressors allow to control the refrigerant volume almost stepless. In this way the capacity perfectly matches the different loads in every room avoiding unnecessary energy use.

Additionally all inverter compressors also allow precise refrigerant temperature control, automatically adapting your VRV to your building and climate requirements, reducing running costs with 28%.

Even more, having no ON/OFF compressors, means total absence of high starting currents, which are being more and more limited by the grid operators and power suppliers.

ALL

INVERTER



Duty Cycling extends operation life

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



Sequential Start

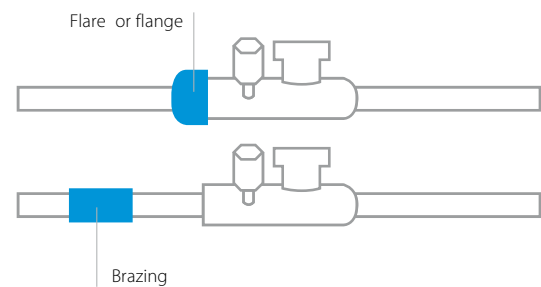
Up to 3 outdoor units can be connected to 1 power supply and can be turned on sequentially. This allows the number of breakers and their capacities to remain small and simplifies wiring (for models of 10HP or less).



Only one power supply

Top quality Only brazed connections

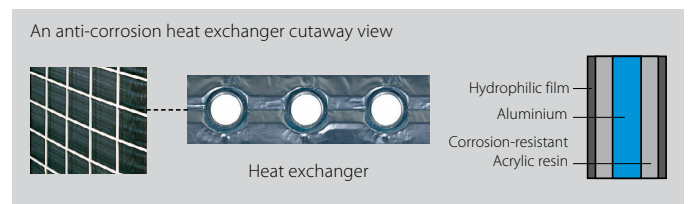
All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment. Also the connection of the outdoor in the main pipe is brazed.



Anti Corrosion Treatment

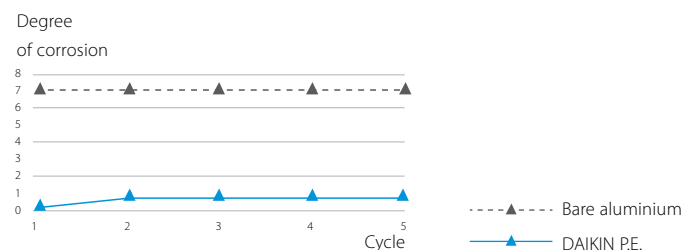
Special anti corrosion treatment of the heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion.

The provision of rust proof steel sheet on the underside of the unit gives additional protection.



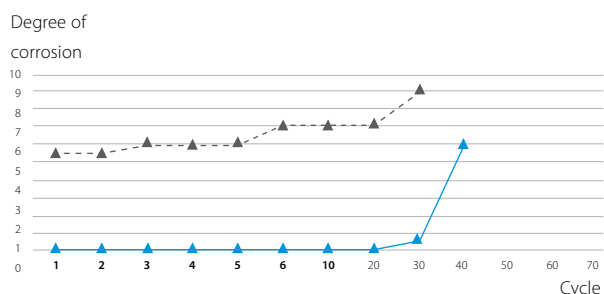
Performed tests:

- › 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



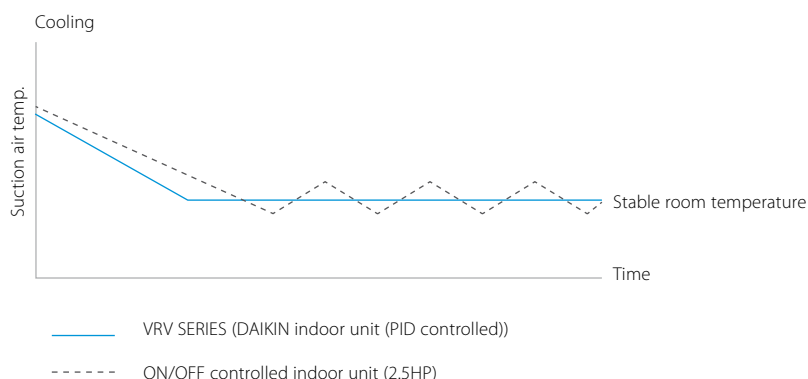
Comfort guaranteed

Smart Control brings comfort

Stable room temperature

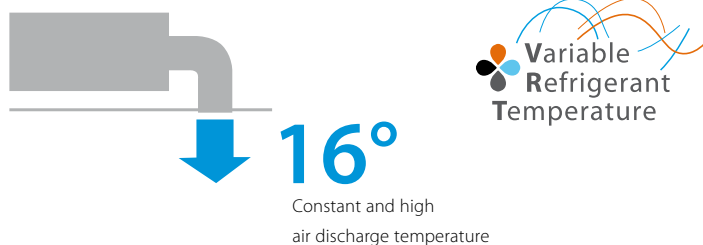
An electronic expansion valve, using PID (Proportional Integral Derivative) control, continuously adjusts the refrigerant volume in response to load variations of the indoor units. The VRV system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations 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.



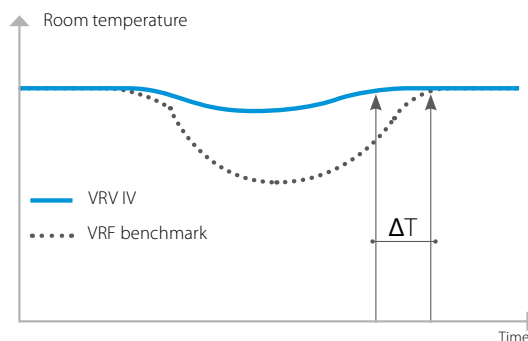
Available on all VRV IV units

Continuous heating

During defrost

- › Indoor comfort not effected via the unique heat accumulating element or alternate defrost
- › The best alternative to traditional heating systems

Available on REYQ-U, RYYQ-U, RXYQ-U and RXYQQ-U



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.



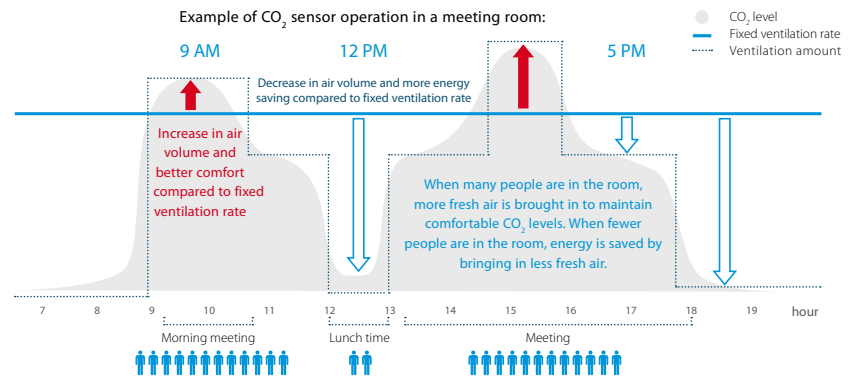
Single outdoor unit with multiple compressors



Multi outdoor unit system

Prevent energy losses from over-ventilation with CO₂ sensor

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO₂ sensor can be installed which switches off the ventilation system when there is enough fresh air in the room, thus saving energy.



Low indoor unit operation sound level

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

db(A)	Perceived loudness	Sound
0	Threshold of hearing	-
20	Extremely soft	Rustling leaves
40	Very soft	Quiet room
60	Moderately loud	Normal conversation
80	Very loud	City traffic noise
100	Extremely loud	Symphonic orchestra
120	Threshold of feeling	Jet taking off

Daikin indoor units:

DAIKIN
emura



19dB(A)

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

perfera



25.5dB(A)



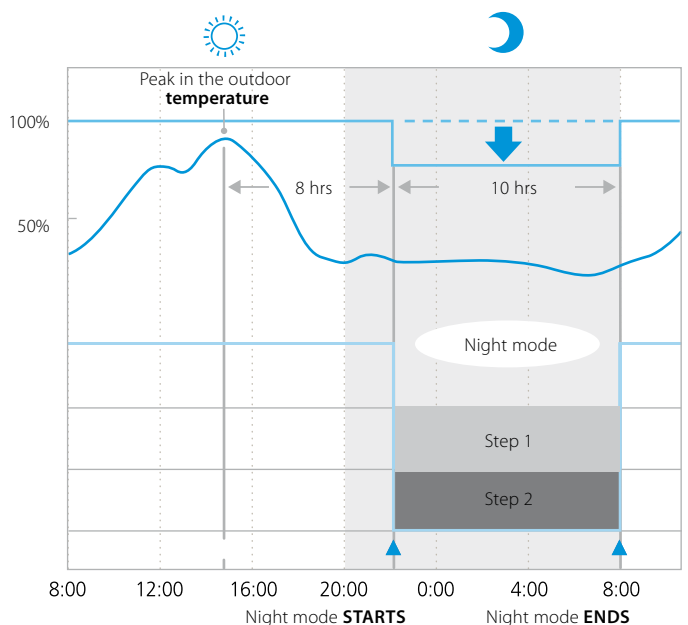
Connectable to all VRV heat pumps

Night quiet mode

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

- Capacity* %
- Load %
- Operation Sound dBA

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



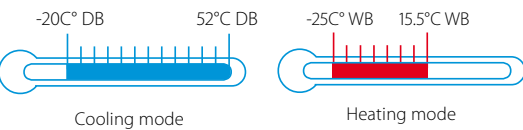
Example for VRV IV heat pump, factory setting.

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°C¹, making it perfect for integrating server rooms.

Flexible piping design

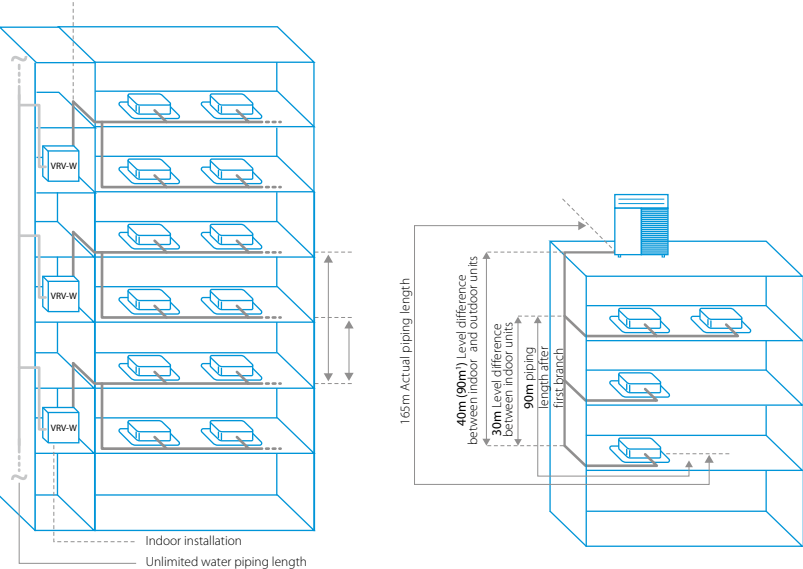
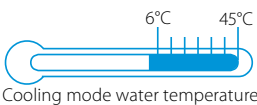
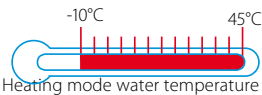
The long piping lengths, high level differences and small refrigerant piping allows for a design with little limitations and leaving maximum space for lettable space.

¹ Contact your local dealer for more information and restrictions

Water cooled

Standard water cooled outdoor units operation between 10°C & 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



VRV IV example

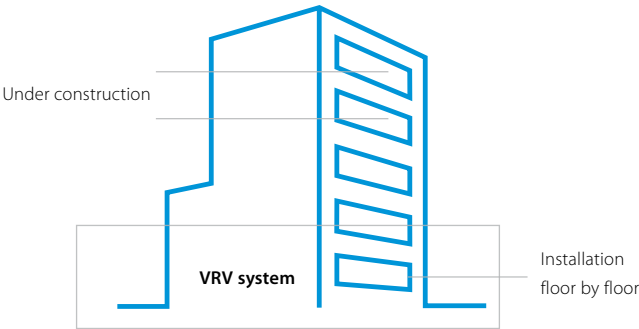
	Air cooled	Water cooled
Total piping length	1000m	500m
Longest length actual (Equivalent)	165m (190m)	165m (190m)
Longest length after first branch	90m ¹	40m (90m ¹)
Level difference between indoor and outdoor units	90m ¹	50m (40m ²)
Level difference between indoor units	30m	30m

1 Contact your local dealer or consult technical literature for more information and restrictions

2 In case outdoor unit is located below indoor units

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.



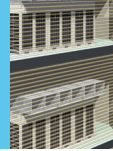
Indoor installation

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.

ESP up to
78.4 Pa



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 62

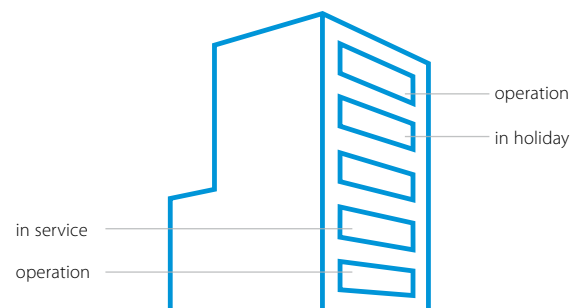
Water cooled

- › 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:

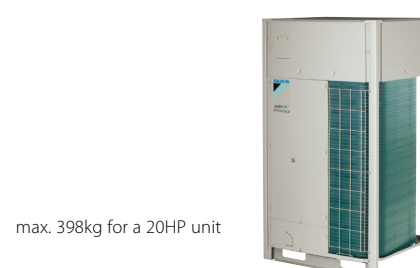
- › Service setting, without additional hardware: for service execution within 24 hours
- › PCB option: when tenants leave for a longer period (holiday) and the main power supply is shut down



multi tenant

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.



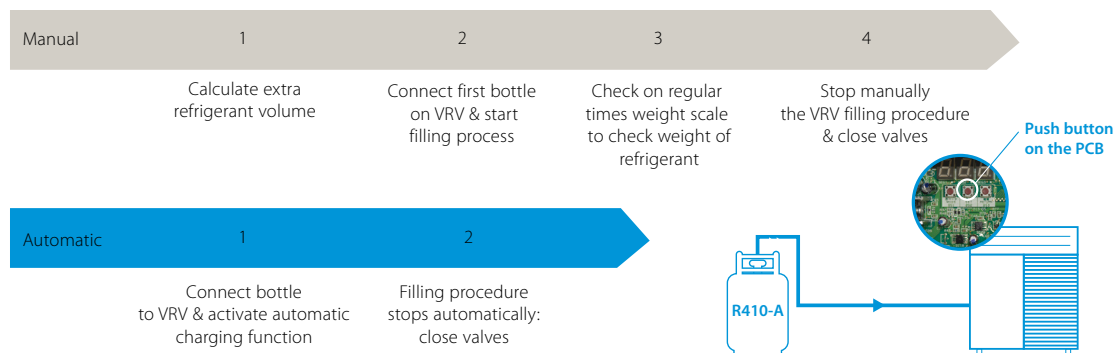
max. 398kg for a 20HP unit

Fast installation and commissioning

+ Easy servicing

Automatic charging & testing

Efficient use of time



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, RXYQ-Q, RQCEQ-P3

Did you know?

OPTIMAL CHARGE = OPTIMAL EFFICIENCY

Planned installation
64 m refrigerant piping

↓

calculation:
2.2 kg extra refrigerant required

0.5 kg

Real installation
76 m refrigerant piping

↓

2.7 kg extra refrigerant required in reality

10% undercharged
↓
up to 25% capacity loss
↓
33% more energy use

Compliance to F-gas regulation

Remote refrigerant containment check

Perform the refrigerant containment check remotely via intelligent Touch Manager.

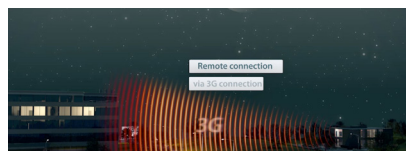
When activating the refrigerant containment check, the unit switches into cooling mode and duplicates certain reference conditions based on memory data. The result indicates whether or not refrigerant leakage has occurred.

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

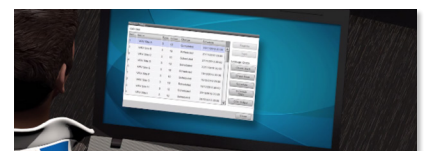
- > Outdoor temperature
- > Reference system temperatures
- > Reference system pressures
- > Refrigerant density
- > Types and number of indoor units



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.



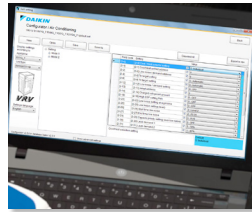
Check the report once the check has been done.

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.

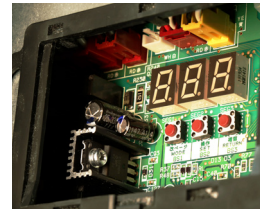
VRV configurator software

For simplified commissioning, configuration and customisation

Available on REYQ-U, RYYQ-U, RXYQ-U, RXYSCQ-TV1, RXYSCQ-TY8V/T8Y/TY1, SB.RKXYQ-T(8) and RXYQQ-U



User friendly interface instead of push buttons



3 digit 7-segment display

Compact design

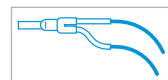
The compact design of the outdoor units is sufficient to allow them to be taken up to the top of a building in a commercial elevator, overcoming site transportation problem, particularly when outdoor units need to be installed on each floor.



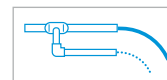
Daikin unified REFNET piping

The unified Daikin REFNET piping system is designed for simple installation.

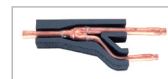
Compared to regular T-joints, where refrigerant distribution is far from optimal, the Daikin REFNET joints have specifically been designed to optimise refrigerant flow.



REFNET joint



T-joint



REFNET joint



REFNET header

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

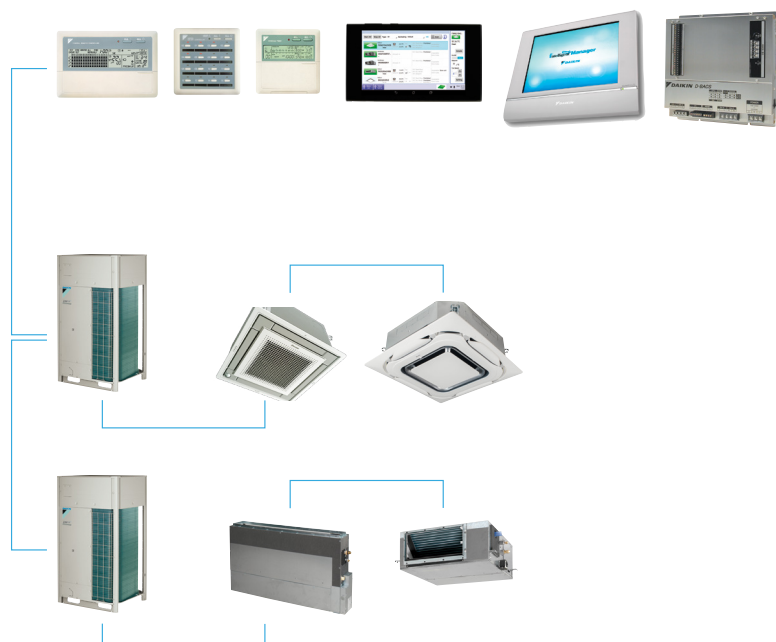
Cross wiring check

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



VRV 5

Designed for
the future



VRV 5

BLUEvolution

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Outdoor units	37
Indoor units	38
Ceiling mounted cassette units	38
FXFA-A - Round flow cassette	39
FXZA-A - Fully flat cassette	41
Concealed ceiling units	42
Auto cleaning filter for concealed ceiling units	42
FXDA-A - Slim concealed ceiling unit	43
FXSA-A - Concealed ceiling unit with medium ESP	44
Wall mounted units	45
FXAA-A - Wall mounted unit	45

VRV 5 outdoor unit overview

Model	Product name		4	5	6	VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	AHU connection	Air curtains	Remarks
Air – cooled heat pump UNIQUE VRV 5 S-series Lower CO2 equivalent and market-leading flexibility > Compact single fan design saves space and is easy to install > Market-leading serviceability and handling > Reduced CO2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge > Offering like-for-like R-410A flexibility	RXYSA-AV1 / AY1 	1~	●	●	●	○	×	×	○	○*	○*	> Standard total system connection ratio limit: 50 ~ 130%
		3~	●	●	●							

* For sales availability refer to your local sales representative

VRV 5 indoor unit overview



Capacity class (kW)

Type	Model	Product name	10	15	20	25	32	40	50	63	71	80	100	125	140
Ceiling mounted 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 			●	●	●	●	●	●		●	●	●	
	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 		●	●	●	●	●	●						
Concealed 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 developed for small of well-insulated rooms > Reduced energy consumption thanks to DC fan motor	FXDA-A 	●	●	●	●	●	●	●	●					
	Concealed ceiling unit with medium ESP Slimmest yet most powerful 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	FXSA-A 		●	●	●	●	●	●	●		●	●	●	●
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 developed 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 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 capacity (kW) ²			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



VRV 5 indoor unit benefit overview

			Ceiling mounted cassette units		Concealed ceiling units		Wall mounted unit
			FXFA-A	FXZA-A	FXDA-A	FXSA-A	FXAA-A
							
We care	 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	●	●			
Comfort	 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 neighbourhood	●	●	●	●	
	 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	G1(2) (G3 (2) in case of auto cleaning panel)	G1(2)	●	G1 (2)	●
Humidity control	 Dry programme	Allows humidity levels to be reduced without variations in room temperature	●	●	●	●	●
Air flow	 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	●	●			●
	 Fan speed steps	Multiple fan speeds to select, to optimize comfort levels	5 + auto	3 + auto	3	3 + auto	2
	 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	●	●			
Remote control & timer	 Online Controller (BRP069C51) NEW	Can control and monitor the status of your Daikin heating or air conditioning system	●	●	●	●	●
	 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)
	 Wired remote control	Wired remote control to remotely control your indoor unit	Only connectable to new BRC1H52W/S/K				●
	 Centralised control	Centralised control to control several indoor units from one single point	●	●	●	●	●
Other functions	 Auto-restart	The unit restarts automatically at the original settings after power failure	●	●	●	●	●
	 Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies	●	●	●	●	●
	 Drain pump kit	Facilitates condensation draining from the indoor unit	Standard	Standard	Standard	Standard	Optional
	 Multi tenant	The indoor unit's main power supply can be turned off when leaving the building or for servicing purposes	●	●	●	●	●

(1) Must be combined with Madoka wired remote controller

(2) Filter grade category are an indication, filters are not certified.

Best-in-class design versatility

Indoor unit installation in rooms down to 10m²!

When using R-32 refrigerant in VRV systems additional measures need to be taken according to the product standard IEC60335-2-40 (Ed.6), in order to use the VRV system to it's full potential.

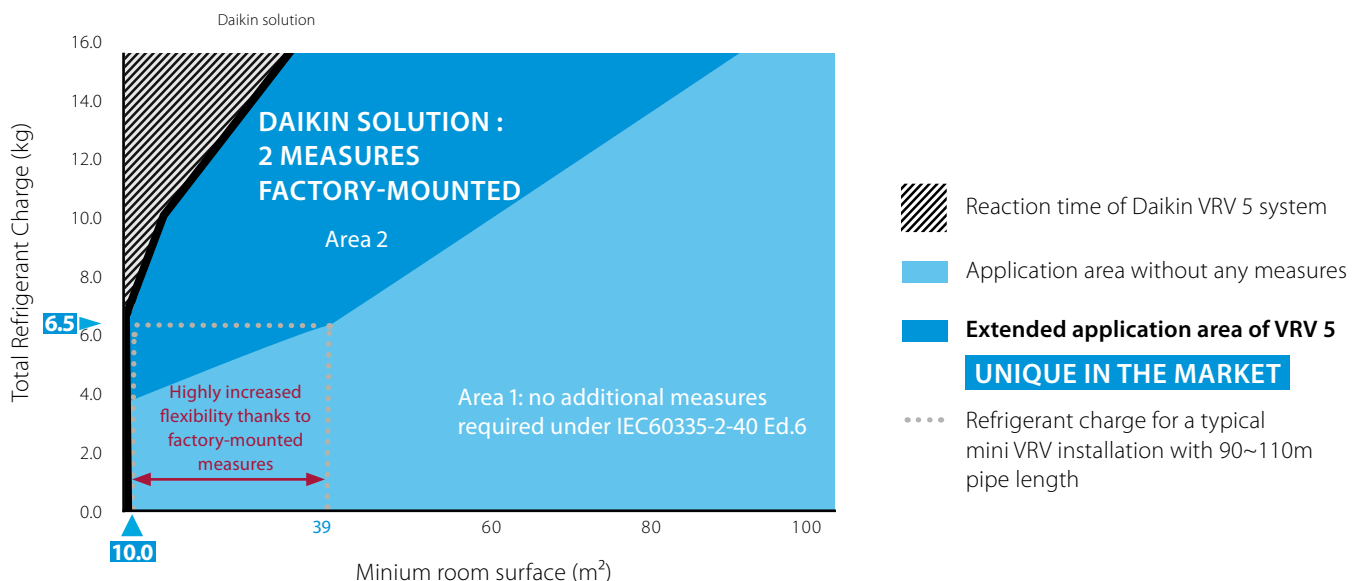
- › The product standard IEC60335-2-40 (Ed.6) specifies all information regarding the total refrigerant amount and minimum room surface, depending on the additional measures taken.
- › **Area 1:** Application area without any measures
 - Typically split and Sky Air systems fall in this area thanks to very low refrigerant charges.
 - A typical mini VRV installation, with 6.5kgs of refrigerant would require a minimum room surface of **39m²** (1)
- › **Area 2:** Extended application area of VRV 5 including 2 factory-mounted measures.
 - The Daikin way, enabling to **use the VRV system to it's full potential**, with a minimum room surface down to **10.0m²** (1)



(1) for indoor units installed at minimum 1.8m height and above the lowest underground floor.

CB CERTIFIED BY SGS CEBEC

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



The representation above is Daikin's interpretation of IEC60335-2-40 (Ed.6) and has no intention to replace in anyway existing legislation.

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 maybe central)

DAIKIN SOLUTION, UNIQUE IN THE MARKET

The most flexible solution by Daikin

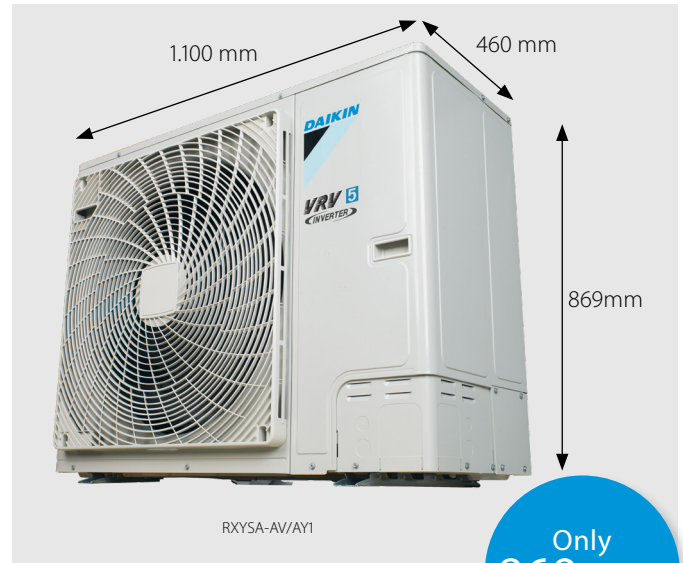
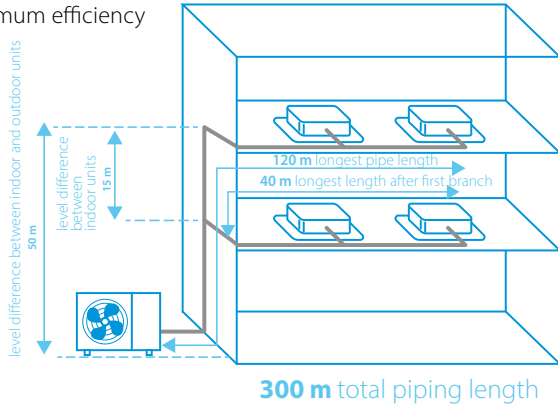
- › The most flexible solution: two measures, system integrated
 - No additional costs or calculations needed to implement measures in the field
 - No hassle or additional time needed when installing
 - No risk in errors thanks to Xpress selection software
- › Third party tested and approved



VRV 5 S-series

Lower CO₂ equivalent and market-leading flexibility

- › Reduced CO₂ 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
- › Offering like-for-like R-410A flexibility
- › Specially designed indoor units for R-32, ensuring low sound and maximum efficiency



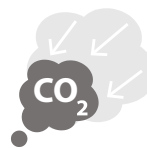
Only
869mm
high!



Access all technical information on RXYSA-AV1 at my.daikin.eu or click here



Access all technical information on RXYSA-AY1 at my.daikin.eu or click here



Reduced CO₂ equivalent



Like-for-like R-410A
installation flexibility



Already fully compliant
to LOT 21 - Tier 2

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 combination				3xFXSA25A2VEB + 1xFXSA32A2VEB	4xFXSA32A2VEB	2xFXSA32A2VEB + 2xFXSA40A2VEB	3xFXSA25A2VEB + 1xFXSA32A2VEB	4xFXSA32A2VEB	2xFXSA32A2VEB + 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 connectable indoor units				13 (1)	16 (1)	18 (1)	13 (1)	16 (1)	18 (1)
Indoor index connection	Min.			50	62.5	70	50	62.5	70
	Nom.			100	125	140	100	125	140
	Max.			130	162.5	182	130	162.5	182
Dimensions	Unit	HeightxWidthxDepth	mm	869x1,100x460					
Weight	Unit		kg	102					
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					
	Heating	Min.~Max.	°CWB	-20.0 ~ 16					
Refrigerant	Type/GWP			R-32/675					
	Charge		kg/TCO2Eq	3.40 / 2.30					
Piping connections	Liquid	OD	mm	9.52					
	Gas	OD	mm	15.9					
	Total piping length	system	Actual	300					
	Height Difference	OU-IU	Outdoor unit in highest position	50					
			Indoor unit in highest position	40					
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240			3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)		A	32			16		

(1) Actual number of units depends on the indoor unit type and the connection ratio restriction for the system (being 50% <= 130%)

The most comfortable cassette
just got better

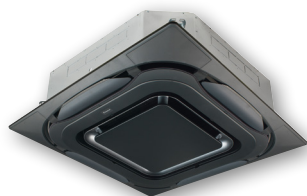
New round flow cassette



- › **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



Black auto cleaning panel



Black designer panel

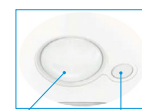


Full white standard panel



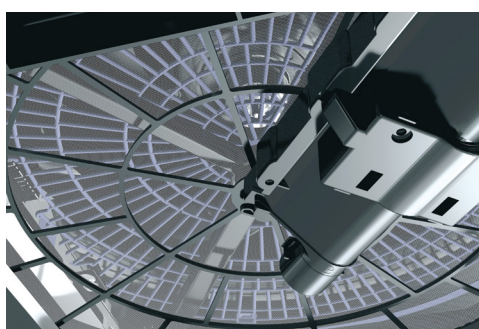
White designer panel

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



presence sensor floor sensor

- › **Auto cleaning** panels available in black and white



Auto cleaning filter

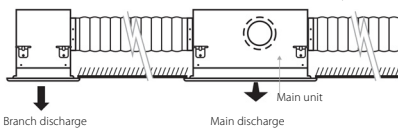
Dust can simply be removed using a vacuum cleaner without opening the unit.

* Available as an option

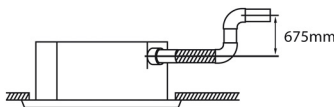
Round flow cassette

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
- › 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



Access all technical information on FXFA-A at my.daikin.eu or click here



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	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	204x840x840						246x840x840		288x840x840
Weight	Unit		kg	18	19			21		24		26
Casing	Material			Galvanised steel plate								
Decoration panel	Model			Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black								
	Dimensions	HeightxWidthxDepth	mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950								
Fan	Air flow rate - 50Hz	Cooling	At high fan speed	m ³ /min	12.8	14.8	15.1	16.6	23.3	28.8	33.0	33.0
		Heating	At high fan speed	m ³ /min	12.8	14.8	15.1	16.6	23.3	28.8	33.0	33.0
Air filter	Type			Resin net								
Sound power level	Cooling	At high fan speed	dBA	49 (4)		51 (4)		53 (4)	55 (4)	60 (4)	61 (4)	
Sound pressure level	Cooling	L/ML/M/MH/H	dBA	31/30/29/29.5/28 (4)	33/32/31/30/29 (4)	35/34/33/32/30 (4)	38/36/34/32/30 (4)	43/41/37/34/30 (4)	45/43/41/39/36 (4)			
	Heating	L/ML/M/MH/H	dBA	31/30/29/29.5/28 (4)	33/32/31/30/29 (4)	35/34/33/32/30 (4)	38/36/34/32/30 (4)	43/41/37/34/30 (4)	45/43/41/39/36 (4)			
Refrigerant	Type/GWP			R-32 / 675								
Piping connections	Liquid	OD	mm					6.35			9.52	
	Gas	OD	mm	9.52				12.7			15.9	
Power supply	Phase/Frequency/Voltage		Hz/V	VP25 (O.D. 32 / I.D. 25)								
	Current - 50Hz	Maximum fuse amps (MFA) (1)	A	1~/50/60/220-240/220								
Control systems	Infrared remote control			6								
	Wired remote control			BRC7FA532F (2) BRC1H52W/S/K								

(2) Must be confirmed with the local electrical code and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing

(3) L=low; ML=medium low; M=medium; MH=medium high; H=high

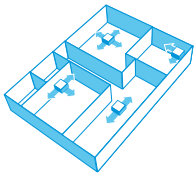
(4) Sound of designer panel type



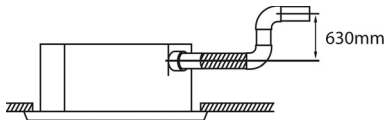
Fully flat cassette

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



Access all technical information on FXZA-A at my.daikin.eu or click here

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	260x575x575						
Weight	Unit			kg	15.5			16.5		18.5	
Casing	Material		Galvanised steel plate								
Decoration panel	Model	BYFQ60C4W1W									
	Colour	White (N9.5)									
	Dimensions	HeightxWidthxDepth		mm	46x620x620						
	Weight			kg	2.8						
Decoration panel 2	Model	BYFQ60C4W1S									
	Colour	SILVER									
	Dimensions	HeightxWidthxDepth		mm	46x620x620						
	Weight			kg	2.8						
Decoration panel 3	Model	BYFQ60B2W1 + wire harness EKRS23									
	Colour	White (RAL9010)									
	Dimensions	HeightxWidthxDepth		mm	55x700x700						
	Weight			kg	2.7						
Decoration panel 4	Model	BYFQ60B3W1 + wire harness EKRS23									
	Colour	WHITE (RAL9010)									
	Dimensions	HeightxWidthxDepth		mm	55x700x700						
	Weight			kg	2.7						
Fan	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	8.5	8.7	9.0	10.0	11.5	14.0	
		Heating	At high fan speed	m³/min	8.5	8.7	9.0	10.0	11.5	14.0	
Air filter	Type		Resin net								
Sound power level	Cooling	At high fan speed		dBA	49		50	51	54	60	
Sound pressure level	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	
	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					12.7		
	Drain	VP20 (I.D. 20/O.D. 26)									
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220							
Current - 50Hz	Maximum fuse amps (MFA)		A	6							
Control systems	Infrared remote control		BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel) (1)								
	Wired remote control		BRC1H52W/S/K								

Dimensions do not include control box

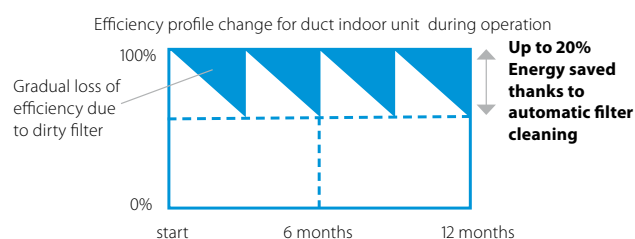
(1) Must be combined with Madoka wired remote controller.

Auto cleaning filter for concealed ceiling units

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

Reduce running costs

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



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

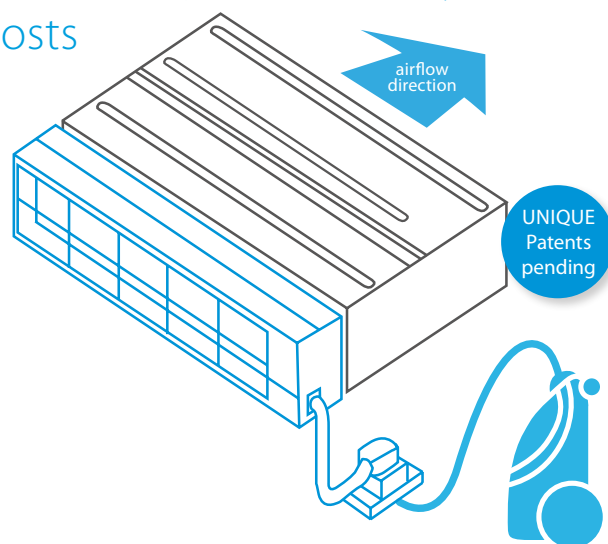
- › Optimum airflow eliminates draft and insulates sound

Superb reliability

- › Prevents clogged filters for seamless operation

Unique technology

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



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



Combination table

	Split / Sky Air				VRV						
	FDXM-F9				FXDA-A/FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•



www.youtube.com/DaikinEurope



Specifications

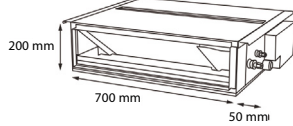
	BAE20A62	BAE20A82	BAE20A102
Height (mm)	210		
Width (mm)	830	1,030	1,230
Depth (mm)	188		

Slim concealed ceiling unit

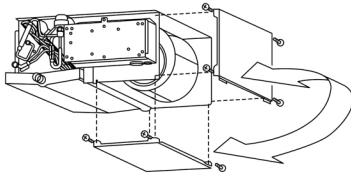
Slim design for flexible installation

- 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

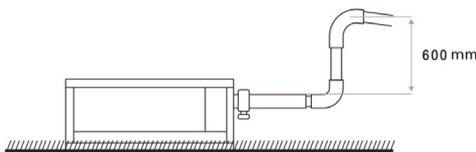
SERIE A (15, 20, 25, 32)



- 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

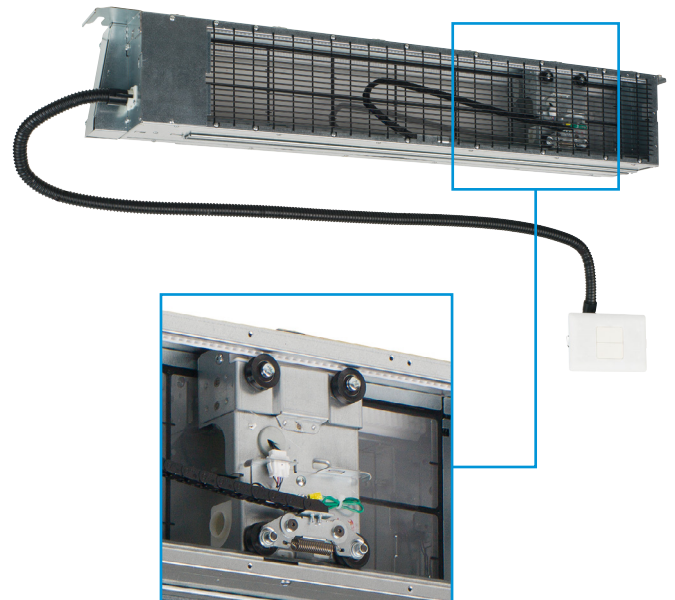


Access all technical information on FXDA-A at my.daikin.eu or click here



Access all technical information on BAE20A at my.daikin.eu or click here

NEW



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 void >				mm	240							
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620					200x950x620		200x1,150x620
Weight	Unit			kg	22.0					26.0		29.0
Casing	Material				Galvanised steel							
Fan	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	5.2	6.5	8.0			10.5	12.5	16.5
	External static pressure - 50Hz	Factory set/High		Pa	10/30.0					15/44.0		
Air filter	Type				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				VP20 (I.D. 20/O.D. 26)							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220							
Current - 50Hz	Maximum fuse amps (MFA)			A	6							
Control systems	Infrared remote control				BRC4C65 / BRC4C66 (1)							
	Wired remote control				BRC1H52W/S/K							

(1) Must be combined with Madoka wired remote controller.

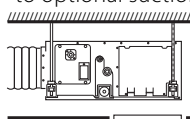
Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

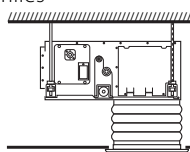
- Optimised design for R-32 refrigerant
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



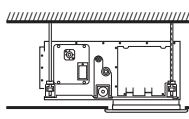
- Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- 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



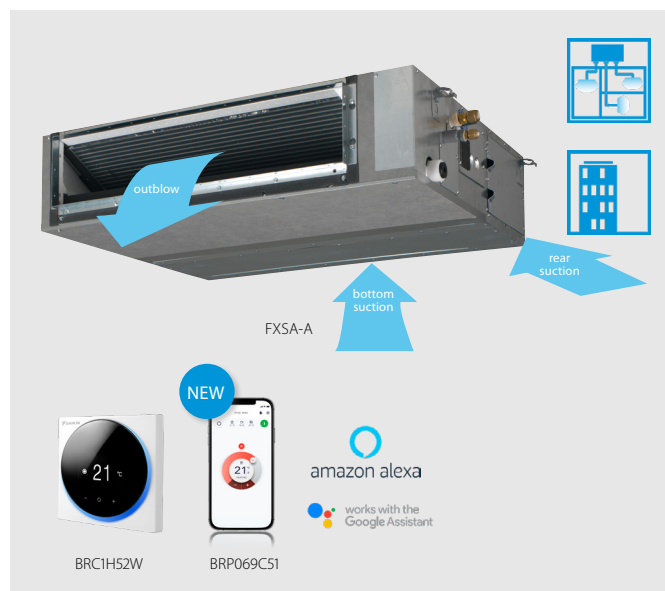
For free use into a false ceiling



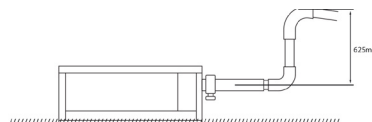
For connecting onto a suction canvas (not supplied by Daikin)



For direct connection to Daikin panel (via EKYBSD kit)



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

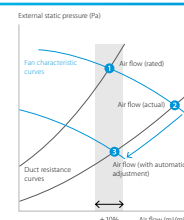


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

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.



Access all technical information on FXSA-A at my.daikin.eu or click here

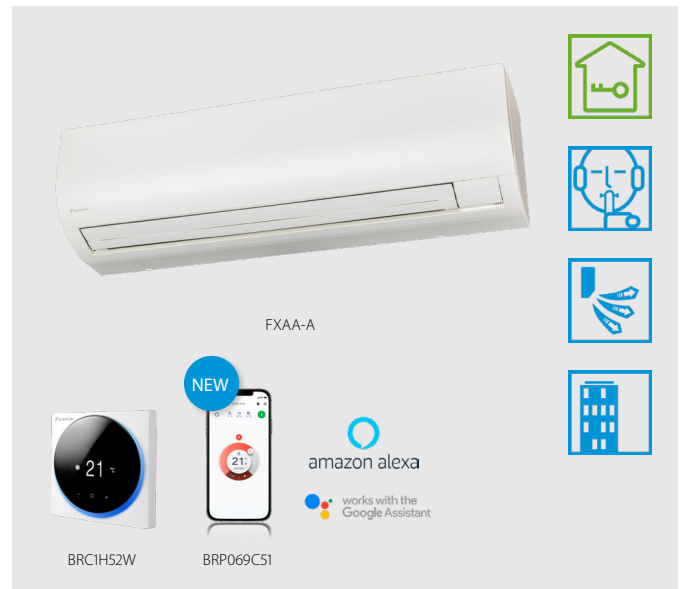
Indoor unit				FXSA	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A	
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00	
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0	
Power input - 50Hz	Cooling	At high fan speed		kW	0.086			0.147		0.150	0.183	0.209	0.285	0.326	0.382	
	Heating	At high fan speed		kW	0.086			0.147		0.150	0.183	0.209	0.285	0.326	0.382	
Dimensions	Unit	HeightxWidthxDepth		mm	245x550x800			245x700x800		245x1,000x800		245x1,400x800		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				Galvanised steel plate											
Fan	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	8.7	9.0		9.5	15.0	15.2	21.0	23.0	32.0	36.0	39.0	
		Heating	At high fan speed	m³/min	8.7	9.0		9.5	15.0	15.2	21.0	23.0	32.0	36.0	39.0	
	External static pressure - 50Hz	Factory set/High		Pa	30/150						40/150		50/150			
Air filter	Type				Resin net											
Sound power level	Cooling	At high fan speed		dBA	54			55	60		59	61		64		
Sound pressure level	Cooling	Low/Medium/High		dBA	25.0/28.0/29.5	25.0/28.0/30.0		26.0/29.0/31.0	29.0/32.0/35.0		27.0/30.0/33.0	31.0/34.0/36.0	29.0/32.0/35.0	31.0/34.0/36.0	33.0/36.0/39.0	34.0/38.0/41.5
	Heating	Low/Medium/High		dBA	26.0/29.0/31.5	26.0/29.0/32.0		27.0/30.0/33.0	29.0/34.0/37.0		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	34.0/38.5/42.0
Refrigerant	Type/GWP				R-32 / 675											
Piping connections	Liquid	OD	mm	6.35								9.52				
	Gas	OD	mm	9.52				12.7				15.9				
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm											
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220											
Current - 50Hz	Maximum fuse amps (MFA)			A	6											
Control systems	Infrared remote control				BRC4C65 (1)											
	Wired remote control				BRC1H52W/S/K											

(1) Must be combined with Madoka wired remote controller.

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



Access all technical information on FXAA-A at my.daikin.eu or click here

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	0.02		0.03		0.02	0.03	0.05
	Heating	At high fan speed		kW	0.03		0.04		0.02	0.04	0.06
Dimensions	Unit	HeightxWidthxDepth		mm	290x795x266				290x1,050x269		
Weight	Unit			kg	12				15		
Fan	Air flow rate - 50Hz	Cooling	Low/High fan speed	m³/min	7.0/8.4	7.0/9.1	7.0/9.4	7.0/9.8	9.7/12.2	11.5/14.4	13.5/18.3
Air filter	Type				Washable resin net						
Sound power level	Cooling	At high fan speed		dBA	51.0	52.0	53.0	55.0		58.0	63.0
Sound pressure level	Cooling	Low/High fan speed		dBA	28.5/32.0	28.5/33.0	28.5/35.0	28.5/37.5	33.5/37.0	35.5/41.0	38.5/46.5
	Heating	Low/High fan speed		dBA	28.5/33.0	28.5/34.0	28.5/36.0	28.5/38.5	33.5/38.0	35.5/42.0	38.5/47.0
Refrigerant	Type/GWP				R-32 / 675						
Piping connections	Liquid	OD		mm	6.35						
	Gas	OD		mm	9.52				12.7		
	Drain				VP13 (I.D. 15/O.D. 18)						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240						
Current - 50Hz	Maximum fuse amps (MFA)			A	6						
Control systems	Infrared remote control				BRC7EA628 / BRC7EA629 (1)						
	Wired remote control				BRC1H52W/S/K						

(1) Must be combined with Madoka wired remote controller.

*Note: blue cells contain preliminary data



VRV IV Outdoor Systems

For every application a solution

VRV

Outdoor units

Widest
range of
BS boxes

Unique
continuous
heating

Widest
range

Unique
product

Increased
capacity!

	VRV 5	VRV IV* Heat recovery	VRV IV* 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* heat pump	VRV IV W*series
	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-T9
Page	37	56	64	72	82	86	92	93	104
BLUEEVOLUTION	●	✗	✗	✗	✗	✗	✗	✗	✗
LOOP BY DAIKIN	✗	●	●	● RXYSQ-TV9/ TY9 only	●	●	●	● RXYQQ-U only	●
Variable Refrigerant Tem- perature	●	●	●	●	●	●	✗	●	●
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	Including 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	✗	●	✗	✗	✗	✗	✗	✗	●
Gas cooled PCB	●	●	●	● not available on RXYSQ4,5,6,8TY1	✗	●	✗	●	✗
Reluctance brushless DC compressor	●	●	●	●	✗	●	●	●	●
Sine wave DC inverter	●	●	●	●	●	●	●	●	●
DC fan motor	●	●	●	●	●	●	●	●	-
E-pass heat exchanger	●	●	●	●	●	●	●	●	-
I demand function	●	●	●	●	●	●	●	●	✗
Manual demand function / power limitation	●	●	●	●	●	●	●	●	●

(1) Either connect VRV or stylish indoor units

Products overview **VRV IV** **LOOP**⁽¹⁾ BY DAIKIN

Model		Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30
Air cooled - heat recovery	UNIQUE VRV IV heat recovery <i>Best efficiency & comfort solution</i> - 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 VRV IV ⁺				●	●	●		●	●	●	●					
	VRV IV heat pump with continuous heating <i>Daikin's optimum solution with top comfort</i> - 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, Perfera) - Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-U VRV IV ⁺				●	●	●		●	●	●	●					
	VRV IV heat pump without continuous heating <i>Daikin's solution for comfort & low energy consumption</i> - 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, Perfera) - Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-U VRV IV ⁺				●	●	●		●	●	●	●					
Air cooled - heat pump	NEW VRV IV-S series Compact <i>The most compact VRV</i> - 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, Perfera) - Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact	●	●	●													
	UNIQUE VRV IV-S series <i>Space saving solution without compromising on efficiency</i> - 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, Perfera) - Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV9/ TY9/TY1 VRV IV S-series	TV9 ●	●	●													
	UNIQUE VRV IV heat pump for indoor installation <i>The invisible VRV</i> - 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 <i>Where heating is priority without compromising on efficiency</i> - 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 VRV IV C⁺ series				●	●			●	●	●	●	●	●	●	●	●
	Replacement heat recovery <i>Quick & quality replacement for R-22 and R-407C systems</i> - Cost-effective and fast replacement through re-use of existing piping - Drastically improve your comfort, efficiency and reliability - No interruption of daily business while replacing your system - Replace Daikin and other manufacturers systems safely	RQCEQ-P3 VRV III Q					●		●		●	●	●	●	●	●	●	●
Water cooled	Replacement heat pump <i>Quick & quality replacement for R-22 and R-407C systems</i> - Cost-effective and fast replacement through re-use of existing piping - Drastically improve your comfort, efficiency and reliability - No interruption 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	●		●	●	●	●		●	●	●	●					
	<i>Ideal for high rise buildings, using water as heat source</i> - Reduced CO2 emissions thanks to the use of geothermal energy as a renewable energy source - No need for an external heating or cooling source when used in geothermal mode - Compact & lightweight design can be stacked for maximum space saving - Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature - Variable Water Flow control option increases flexibility and control - Mixed connection of HT hydroboxes and VRV indoor units - Either connect VRV of stylish indoor units (Daikin Emura, Stylish, Perfera) 2 analogue input signals allowing external control	RWEYQ-T9* VRV IV W⁺ series				●	●	●		●		●	●	●	●	●	●	●

Ranges marked with, ** are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme
 (1) LOOP by Daikin is only valid for units sold within Europe. RXYSCQ-TV1, RXYSQ8,10,12TY1, RQCEQ-P3 units are not part of the LOOP by Daikin programme

● Single unit
 ● Multi combination

Capacity (HP)												Description / Combination	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	Air curtains CYV-DK-	Remarks
32	34	36	38	40	42	44	46	48	50	52	54										
												VRV IV* Heat Recovery REYQ-T	○	×	○	○	○	○	×	○	› Standard total system connection ratio limit: 50 ~ 130%
												with only VRV indoor units	✓								
												with LT/HT Hydroboxes	✓		✓	✓	✓				› Max 32 indoor units, even on 16HP and larger systems › Total system connection ratio with HT hydroboxes up to 200% possible
												HRV units VAM-, VKM-	✓		✓	✓	✓		✓		› Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is always necessary
												AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	
												Biddle air curtain CYV-DK-	✓				✓	✓		✓	› Total system connection ratio with AHU is 50 ~ 110%
												VRV IV* Heat Pump RYYQ-T(8) / RXYQ-T(9)	○	○	○	×	○	○	○	○	› Standard total system connection ratio limit: 50 ~ 130%
												with only VRV indoor units	✓								› 200% total system connection ratio possible under special circumstances
												with residential indoor units	✓	✓			✓				› Only single-module systems (RYYQ 8~20 T / RXYQ 8~20 T) › Max 32 indoor units, even on 16HP, 18HP and 20HP systems › Connection ratio: 80 ~ 130%
												with LT Hydroboxes	✓		✓		✓				› Max 32 indoor units, even on 16HP and larger systems › Contact Daikin in case of multi-module systems (>20HP)
												HRV units VAM-, VKM-	✓	✓	✓		✓	✓		✓	
												AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	
												AHU connection EKEXV + EKEQFCBA							✓		› Total system connection ratio with AHU is 50 ~ 110%
												Biddle air curtain CYV-DK-	✓				✓	✓		✓	
												VRV IV-S RXYSQ-/RXYSCQ-	○	○	×	×	○	○	×	○	› 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 ~ 130%
												VRV IV i series SB.RKXYQ-T(8)	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
												VRV IV-C* series RXYLQ-T	○	○	○	×	○	○	○	○	› Standard total system connection ratio limit: 70 ~ 130%
												with VRV indoor units only	✓				✓			✓	
												with residential indoor units only		✓							› With residential indoor: connection ratio limit: 80 ~ 130%
												with LT hydroboxes	✓		✓		✓				› Max. 32 indoor units, contact Daikin in case of multi-module systems (> 14HP)
												AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	› Total system connection ratio is 70~110%
												AHU connection EKEXV + EKEQFCBA	✓						✓		› With AHU only connection ratio is 90~110%
												VRV III-Q* series Replacement H/R RQCEQ-P3	✓	×	×	×	✓	×	×	×	› Standard total system connection ratio limit: 50 ~ 130%
												VRV IV-Q Replacement H/P RXYQQ-T	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
												VRV IV-W* series Water-cooled VRV RWEYQ-T9	○	○	×	○	○	○	○	○	› Standard total system connection ratio limit: 50 ~ 130%
												with VRV indoor units	✓			✓	✓	✓	✓	✓	
												with split indoor units	✓	✓			✓				› Only single-module systems (RWEYQ8-14T9) › Max 32 indoor units › Connection ratio 80 ~ 130% › only in heat pump version
												with HT hydrobox	✓			✓					
												AHU connection	✓					✓			› Total system connection ratio with AHU + X indoor is 50 ~ 110% › Total system connection ratio with AHU only is 90~ 110%

○ ... connection of indoor unit possible, but not necessarily simultaneously with other allowed indoor units

✓ ... connection of indoor unit possible even simultaneously with other checked units in the same row

× ... connection of indoor not possible on this outdoor unit system



HOTEL LE PIGONNET, 8 REPLACEMENT VRV



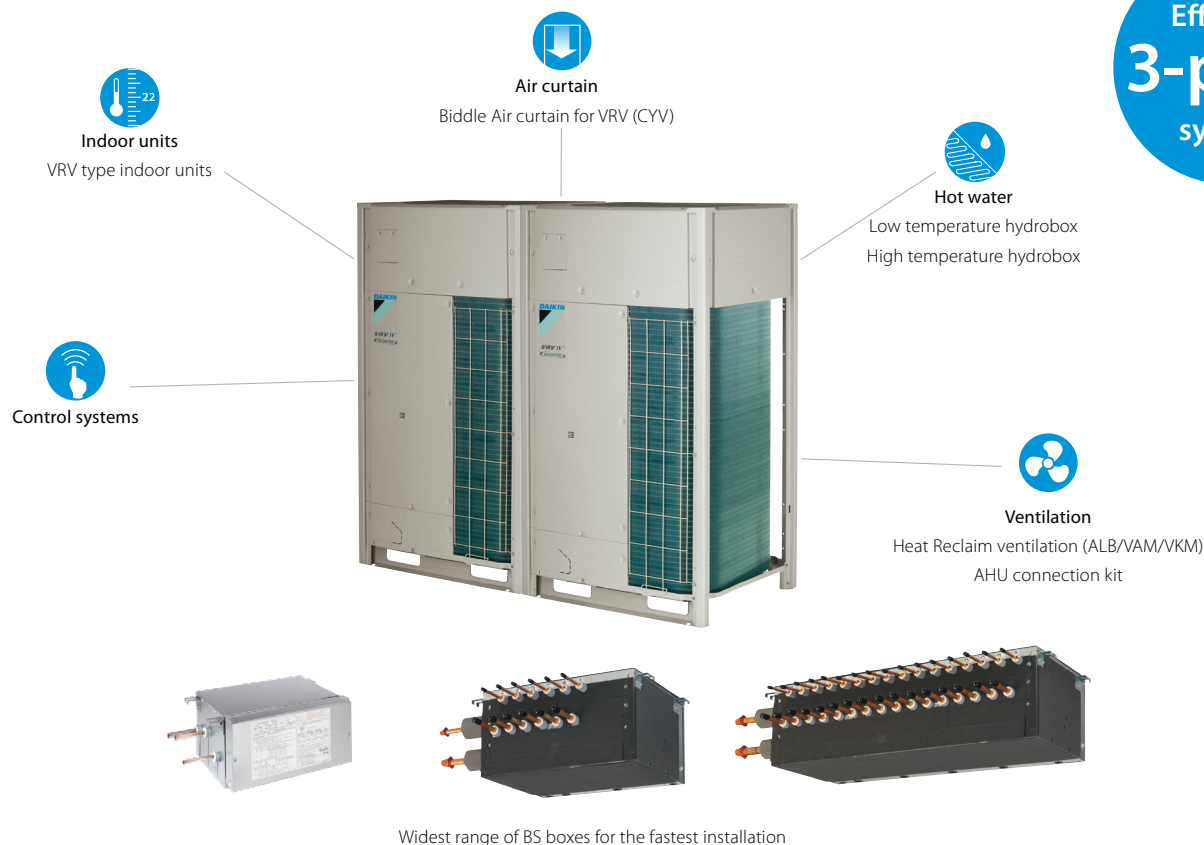
L∞P BY DAIKIN VRV IV
S-SERIES



BASTIDE ROUGE, OFFICE BUILDING, VRV IV WITH CONTINUOUS HEATING

VRV IV⁺ heat recovery

Best efficiency and comfort solution



Efficient
3-pipe
system



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.

Inspired to help?

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



"Free" heat and hot water production

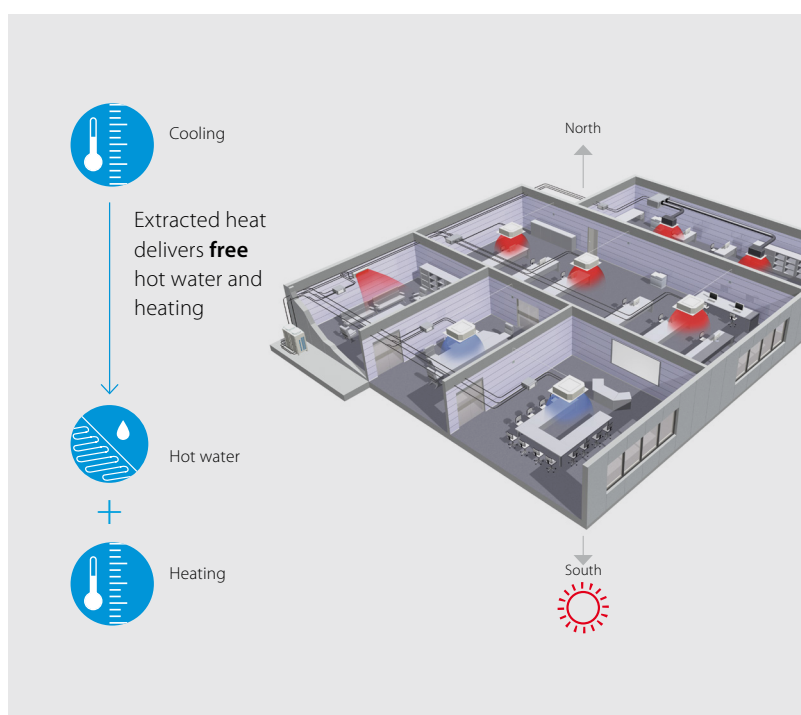
An integrated heat recovery system reuses heat from offices, server rooms, to warm other areas or create hot water.

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.



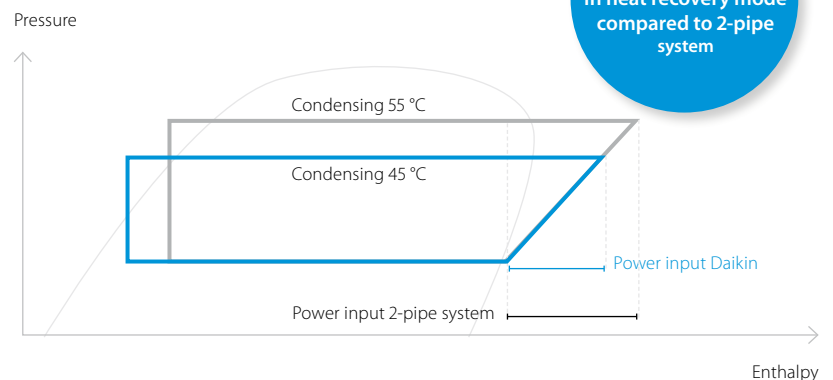
Advantages of 3-pipe technology

Efficient
3-pipe
system

More “free” heat

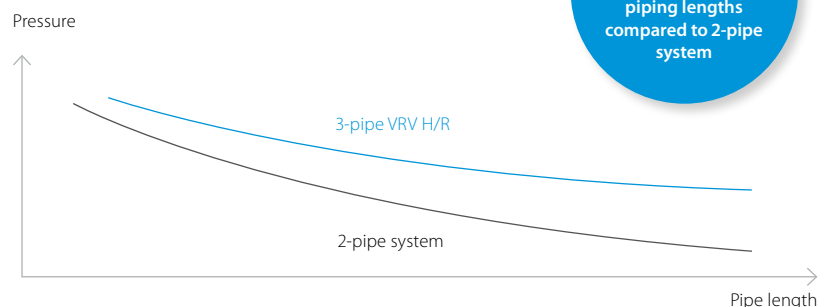
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

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.



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 4 Q14 A



BS 6, 8 Q14 A



BS 10, 12 Q14 A



BS 16 Q14 A

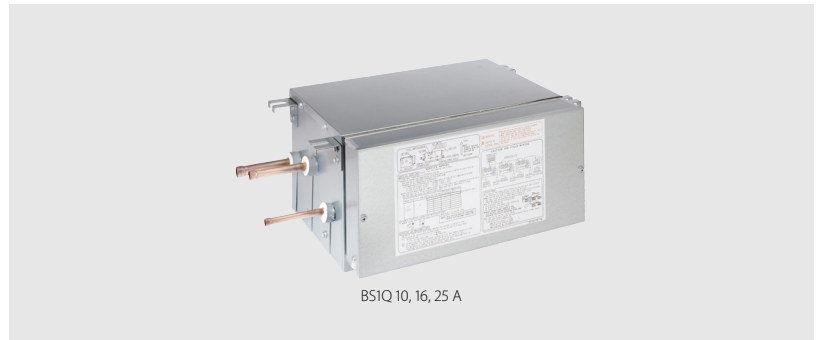
Fully redesigned BS boxes

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

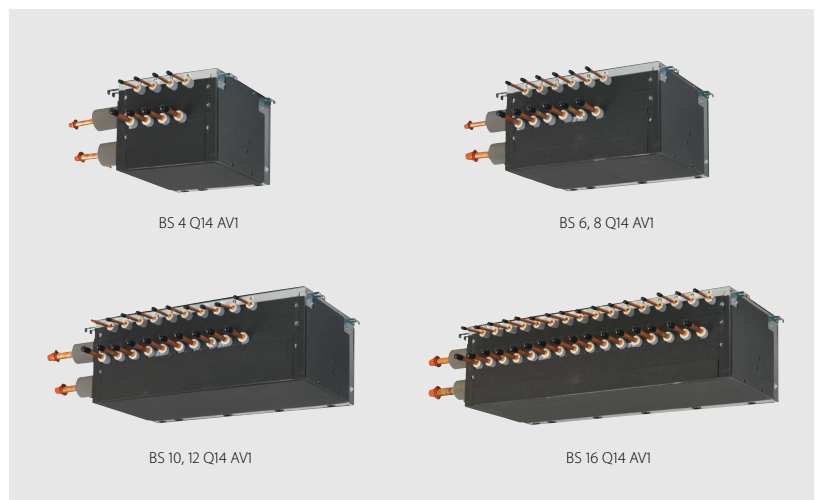
Single port

- › 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



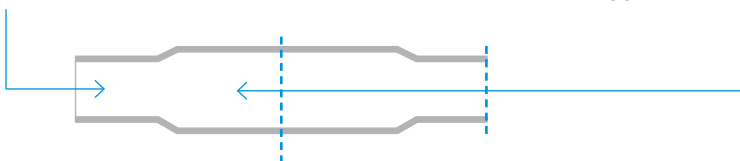
Multi port: 4 – 6 – 8 – 10 – 12 – 16

- › 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



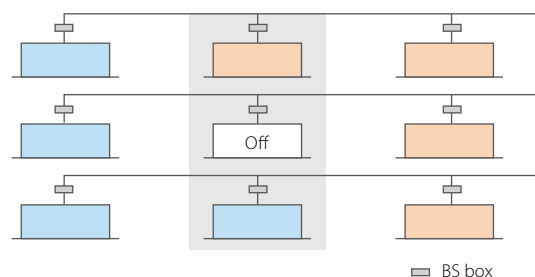
Faster installation thanks to open connection

- › No need to cut the pipe before brazing – for indoor units smaller or equal to 5.6 kW (50 class)
- › Cut and braise 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 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



Already fully compliant
to LOT 21 - Tier 2

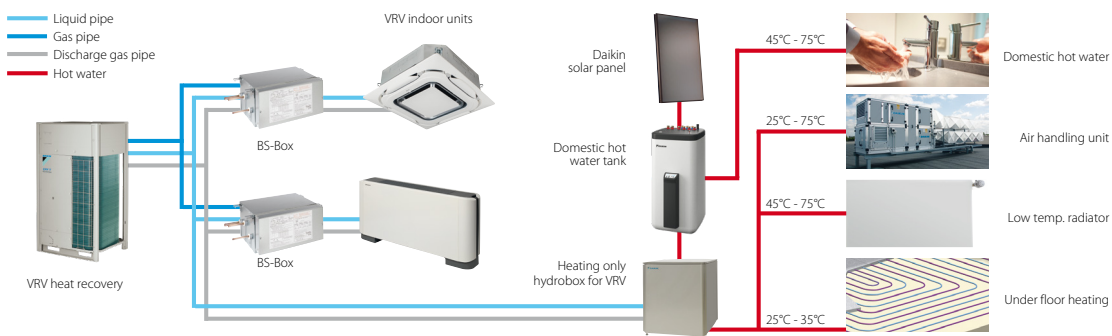
Published data with
real-life indoor units



Access all technical information on REYQ-U
at my.daikin.eu or click here

Outdoor unit				REYQ	8U	10U	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
ηs,c				%	286.1	264.8	257.0	255.8	243.1	250.6	246.7
ηs,h				%	165.1	169.7	183.8	168.3	167.5	172.5	162.7
SEER					7.2	6.7	6.5		6.2	6.3	6.2
SCOP					4.2	4.3	4.7	4.3		4.4	4.1
Maximum number of connectable indoor units					64						
Indoor index connection	Min.				100.0	125.0	150.0	175.0	200.0	225.0	250.0
	Nom.				-						
	Max.				260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	230			314		317	
Sound power level	Cooling	Nom.		dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Sound pressure level	Cooling	Nom.		dBA	57.0		61.0	60.0	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/GWP				R-410A/2,087.5						
Charge				kg/TCO2Eq	9.7/20.2	9.8/20.5	9.9/20.7	11.8/24.6			
Piping connections	Liquid	OD		mm	9.52		12.7		15.9		
	Gas	OD		mm	19.1	22.2	28.6				
	HP/LP gas	OD		mm	15.9	19.1		22.2		28.6	
	Total piping length	System	Actual	m	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		40		50

Outdoor unit System + Module				REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	30U	32U
System	Outdoor unit module 1				REMQ5U		REYQ8U		REYQ10U		REYQ8U	REYQ12U		REYQ16U	
	Outdoor unit module 2				REMQ5U	REYQ8U	REYQ10U	REYQ12U	REYQ16U	REYQ14U	REYQ16U	REYQ18U	REYQ18U	REYQ16U	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	4.3		4.5		4.3	4.5	4.4	4.6	4.3
Maximum number of connectable indoor units					64										
Indoor index connection	Min.				125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0	375.0	400.0
	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	12.7		15.9			19.1				
	Gas	OD		mm	22.2	28.6		28.6			34.9				
	HP/LP gas	OD		mm	19.1		22.2		28.6			28.6			
	Total piping length	System	Actual	m	500					1,000					
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415										
Current - 50Hz	Maximum fuse amps (MFA)			A	40			50			63			80	

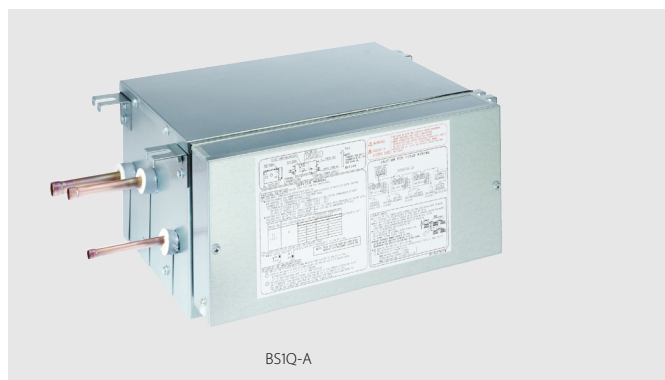


Outdoor unit System + Module			REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor unit module 1			REYQ16U		REYQ8U	REYQ10U		REYQ12U	REYQ14U		REYQ16U		REYQ18U
	Outdoor unit module 2			REYQ18U	REYQ20U	REYQ12U			REYQ16U			REYQ18U		
	Outdoor unit module 3					REYQ18U			REYQ16U			REYQ18U		
Capacity range			HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	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
Heating capacity	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
ηs,c			%	259.2	255.3	269.2	259.6	250.2	249.3	246.8	243.1	254.4	265.7	275.2
ηs,h			%	172.0	166.3	176.0	176.1	167.8	171.9	168.8	168.5	170.3	171.7	173.3
SEER				6.6	6.5	6.8	6.6		6.3		6.2	6.4	6.7	7.0
SCOP				4.4	4.2		4.5	4.3	4.4		4.3			4.4
Maximum number of connectable indoor units				64										
Indoor index connection	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
Piping connections	Liquid	OD	mm	19.1										
	Gas	OD	mm	34.9						41.3				
	HP/LP gas	OD	mm		28.6						34.9			
	Total piping length	System Actual	m						1,000					
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415										
Current - 50Hz	Maximum fuse amps (MFA)		A	80				100				125		
Outdoor unit module			REMQ	5U										
Dimensions	Unit	HeightxWidthxDepth	mm	1,685x930x765										
Weight	Unit		kg	230										
Fan	External static pressure	Max.	Pa	78										
Sound power level	Cooling	Nom.	dBA	78.0										
Sound pressure level	Cooling	Nom.	dBA	57.0										
Operation range	Cooling	Min.~Max.	°CDB	-5.0~-43.0										
	Heating	Min.~Max.	°CWB	-20.0~-15.5										
Refrigerant	Type/GWP			R-410A/2,087.5										
	Charge		kg/TCO2Eq	9.7/20.2										
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415										
Current - 50Hz	Maximum fuse amps (MFA)		A	20										

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

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



BS1Q-A

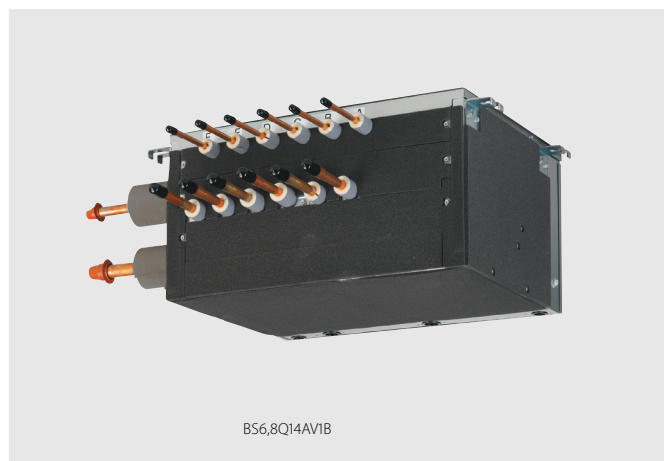


Access all technical information on BS1Q-A
at my.daikin.eu or [click here](#)

Indoor unit					BS	1Q10A		1Q16A		1Q25A	
Power input	Cooling	Nom.			kW	0.005					
	Heating	Nom.			kW	0.005					
Maximum number of connectable indoor units						6		8			
Maximum capacity index of connectable indoor units						15 < x ≤ 100		100<x≤160		160<x≤250	
Dimensions	Unit	HeightxWidthxDepth			mm	207x388x326					
Weight	Unit				kg	12				15	
Casing	Material				Galvanised steel plate						
Piping connections	Outdoor unit	Liquid	OD	mm	9.5						
		Gas	OD	mm	15.9				22.2		
		Discharge gas	OD	mm	12.7				19.1		
	Indoor unit	Liquid	OD	mm	9.5						
		Gas	OD	mm	15.9				22.2		
Sound absorbing thermal insulation						Foamed polyurethane Flame-resistant needle felt					
Power supply	Phase				1~						
	Frequency				Hz	50					
	Voltage				V	220-240					
	Maximum fuse amps (MFA)				A	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 boxes
- › 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



BS6,8Q14AV1B

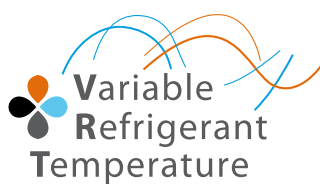
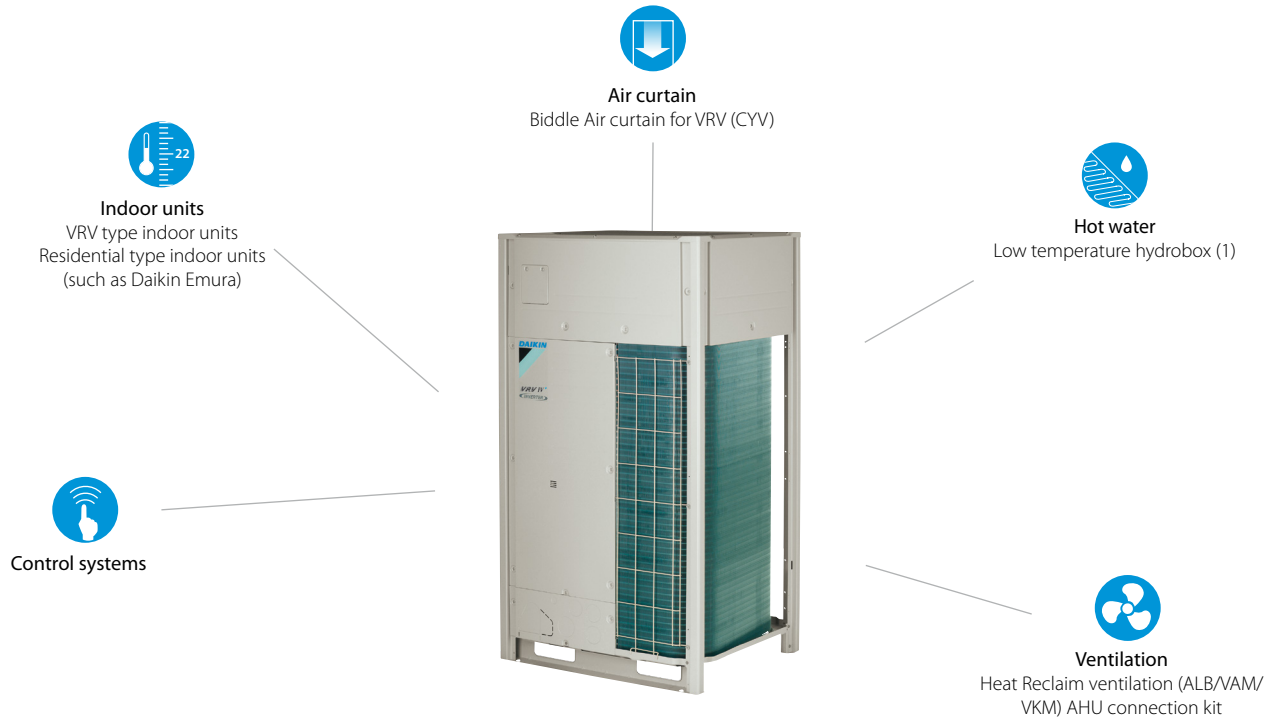


Access all technical information on BS-Q14AV1B at my.daikin.eu or click here

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 indoor units					20	30	40	50	60	64
Maximum number of connectable indoor units per branch					5					
Number of branches					4	6	8	10	12	16
Maximum capacity index of connectable indoor units					400	600	750			
Maximum capacity index of connectable indoor units per branch					140					
Dimensions	Unit	HeightxWidthxDepth		mm	298x370x430	298x580x430		298x820x430		298x1,060x430
Weight	Unit			kg	17	24	26	35	38	50
Casing	Material				Galvanised steel plate					
Piping connections	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 / 34.9		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 thermal insulation					Urethane foam, polyethylene foam					
Power supply	Phase				1~					
	Frequency			Hz	50					
	Voltage			V	220-440					
	Maximum fuse amps (MFA)			A	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

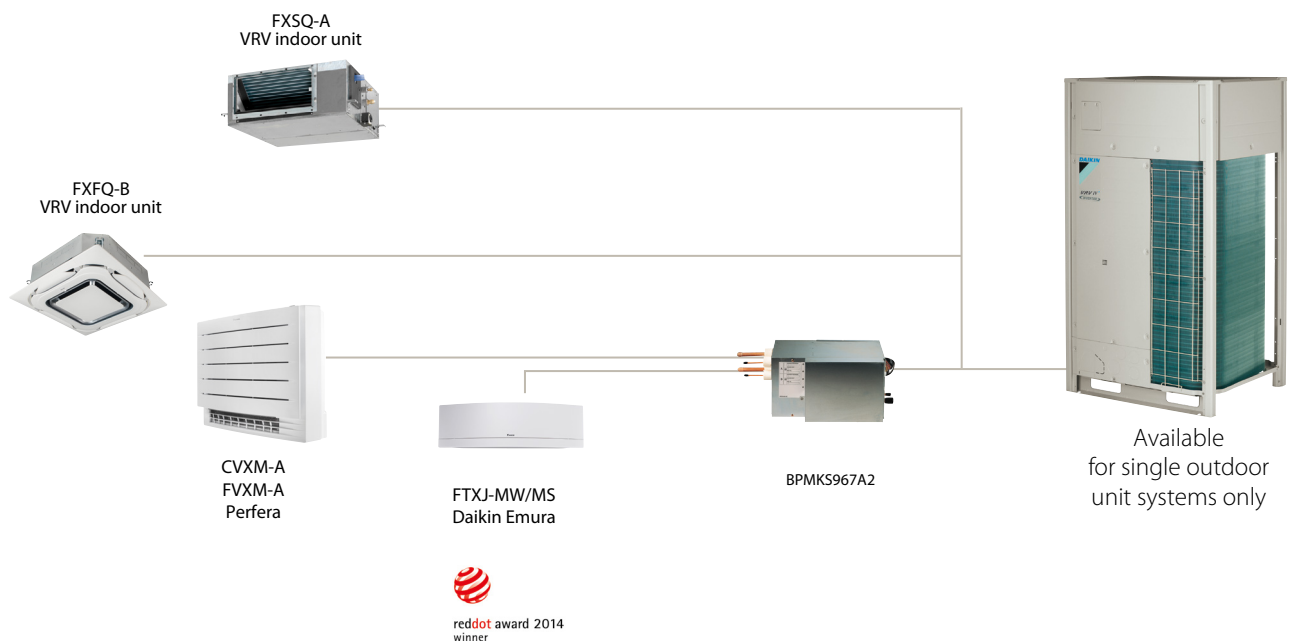
(1) Special order unit needed to connect LT hydroboxes with multi outdoor unit systems
For detailed explanation of these functions refer to vrv iv technologies tab



Wide range of indoor units

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

Mix of
RA units
& VRV units



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	•	•	•	•	•	
Perfera - Floor standing unit	CVXM-A/FVXM-A	•	•	•		•	•
Floor standing unit	FVXM-F		•	•		•	

BPMKS box needed to connect RA indoors to VRV IV

proven in practice: 40% more efficient

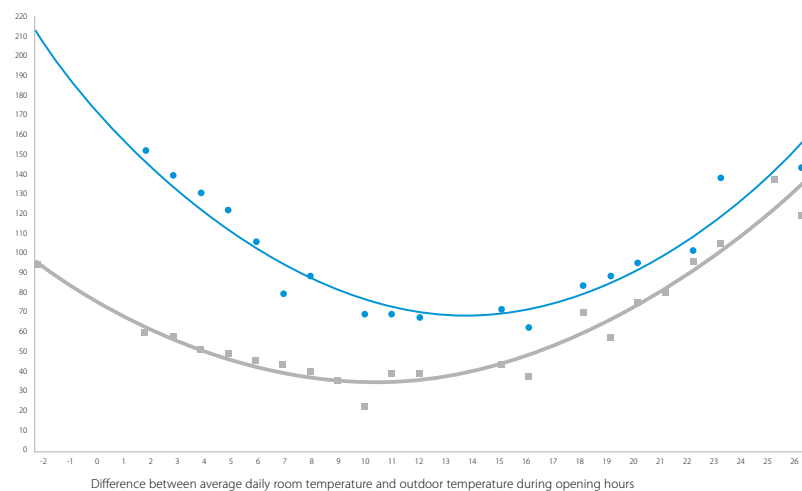
A field trial at a German fashion chain store demonstrated how the innovative features of VRV IV have improved energy efficiency dramatically over previous models.

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.

Average daily consumption during working hours in kWh



- Energy use VRV III in 2012 in kWh
- Energy use VRV IV in 2013 in kWh
- Trendline energy use VRV III
- Trendline energy use VRV IV

	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: 607m²
- › 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.



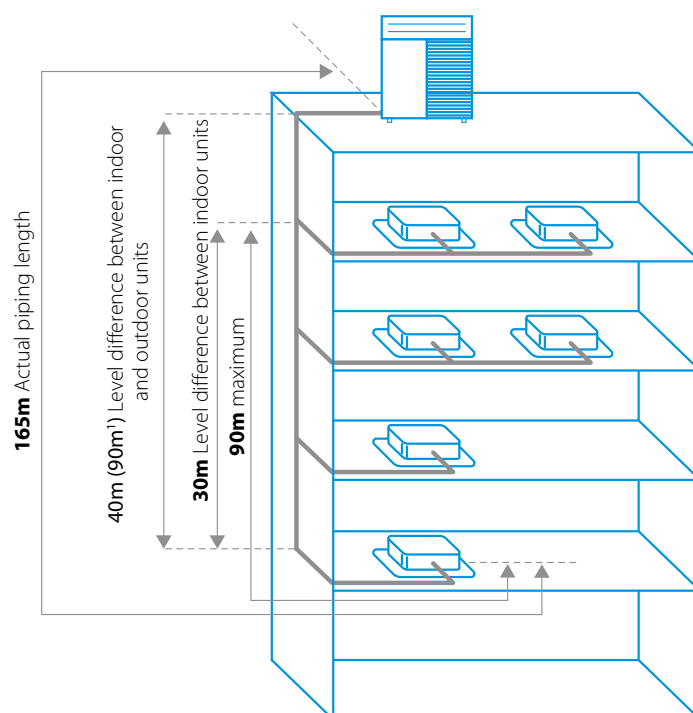
Free combination of outdoor units

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	90m ¹
Level difference between indoor and outdoor units	90m ¹
Level difference between indoor units	30m

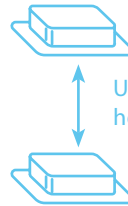
¹ Contact your local dealer for more information and restrictions
² In case outdoor unit is located below indoor units



VRV IV+ heat pump

Daikin's optimum solution with top comfort

- › 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, Perfera floor or stylish, ...)
- › 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



Up to 30m indoor unit height difference



Already fully compliant
to LOT 21 - Tier 2

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



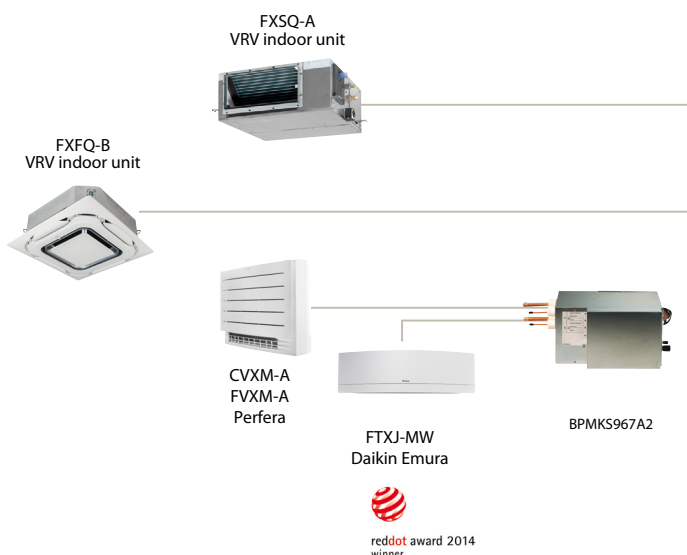
Access all technical information on RYYQ-U at my.daikin.eu or click here



Access all technical information on RXYQ-U at my.daikin.eu or click here

Outdoor unit				RYYQ/RXYQ	8U	10U	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	56.5	63.0
Recommended combination					4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB
ηs,c				%	302.4	267.6	247.8	250.7	236.5	238.3	233.7
ηs,h				%	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 connectable indoor units					64 ⁽¹⁾						
Indoor index connection	Min.				100.0	125.0	150.0	175.0	200.0	225.0	250.0
	Nom.				-						
	Max.				260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	252 (RYYQ) / 198 (RXYQ)			319 (RYYQ) / 275 (RXYQ)		378 (RYYQ) / 308 (RXYQ)	
Sound power level	Cooling	Nom.		dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Sound pressure level	Cooling	Nom.		dBA	57.0		61.0	60.0	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/GWP				R-410A/2,087.5						
	Charge			kg/TCO2Eq	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5		10.4/21.7	11.7/24.4
Piping connections	Liquid	OD		mm	9.52		12.7		15.9		
	Gas	OD		mm	19.1	22.2	28.6				
	Total piping length	System	Actual	m	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	40		50	

Outdoor unit System				RYYQ/RXYQ	22U	24U	26U	28U	30U	32U	34U	36U	38U
System	Outdoor unit module 1				10	8		12			16		8
	Outdoor unit module 2				12	16	14	16	18	16	18	20	10
	Outdoor unit 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			69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5
Recommended combination					6 x FXFQ50AVEB + 4 x FXFQ63AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	7 x FXFQ50AVEB + 5 x FXFQ63AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 5 x FXFQ63AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB	3 x FXFQ50AVEB + 9 x FXFQ63AVEB + 2 x FXFQ80AVEB	2 x FXFQ50AVEB + 10 x FXFQ63AVEB + 2 x FXFQ80AVEB	6 x FXFQ50AVEB + 10 x FXFQ63AVEB
ηs,c				%	274.5	269.9	264.2	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		6.4		6.3	6.9
SCOP					4.4	4.3	4.2		4.3	4.2		4.1	4.3
Maximum number of connectable indoor units					64 ⁽¹⁾								
Indoor index connection	Min.				275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0
	Nom.				-								
	Max.				715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0
Piping connections	Liquid	OD		mm	15.9		34.9		19.1		41.3		
	Gas	OD		mm	28.6								
	Total piping length	System	Actual	m	1,000								
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)			A	63			80		100			



RYYQ8-12U/RXYQ8-12U

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	●	●	●	●	●	
Perfera - Floor standing unit	CVXM-A/FVXM-A	●	●	●		●	●
Floor standing unit	FVXM-F		●	●		●	

BPMKS box needed to connect RA indoors to VRV IV

Outdoor unit System				RYYQ/RXYQ	40U	42U	44U	46U	48U	50U	52U	54U	
System	Outdoor unit module 1				10		12	14	16		18		
	Outdoor unit module 2				12	16				18			
	Outdoor unit module 3				18	16				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 + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 8 x FXFQ63AVEB + 4 x FXFQ80AVEB	1 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	12 x FXFQ63AVEB + 6 x FXFQ80AVEB	3 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 15 x FXFQ63AVEB	
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		4.1		4.2	4.3		
Maximum number of connectable indoor units					64 ⁽¹⁾								
Indoor index connection					Min.	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
	Nom.												
	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	19.1								
	Gas	OD		mm	41.3								
	Total piping length	System	Actual	m	1,000								
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)			A	100				125				
Outdoor unit module for continuous heating combinations					RYMQ	8U	10U	12U	14U	16U	18U	20U	
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765				1,685x1,240x765				
Weight	Unit			kg	198				275		308		
Fan	External static pressure	Max.		Pa	78								
Sound power level	Cooling	Nom.		dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9		
Sound pressure level	Cooling	Nom.		dBA	57.0		61.0	60.0	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/GWP				R-410A/2,087.5								
	Charge			kg/TCO2Eq	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		
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	40		50			

(1) 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%)

VRV IV S-series heat pump

The most compact VRV

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



Control systems



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



RXYSQ4,5,6TV1

NEW 6HP model



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

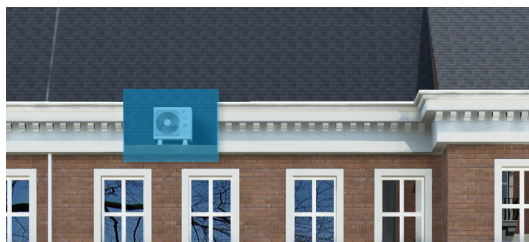
Widest range of front blow units on the market



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.



Unnoticeable for parapet installation

Ideal to install below a window on a Balcony

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

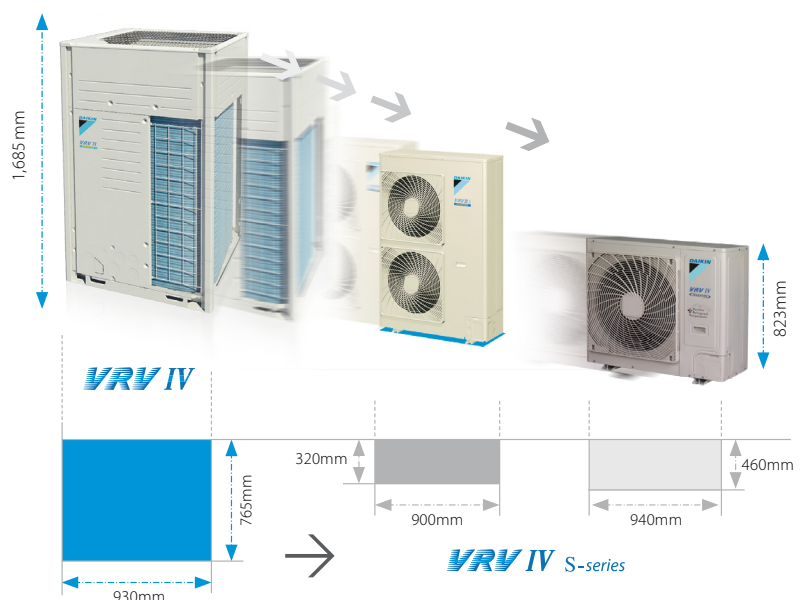


Low height make the unit invisible from inside and unnoticeable from the outside



Space saving design

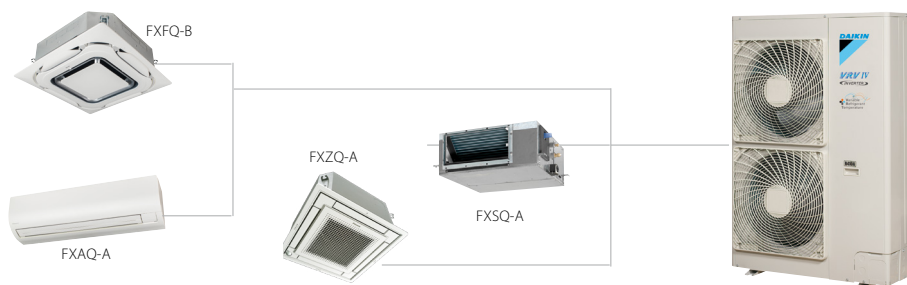
The VRV S-series is slimmer and more compact, resulting in significant savings in installation space.



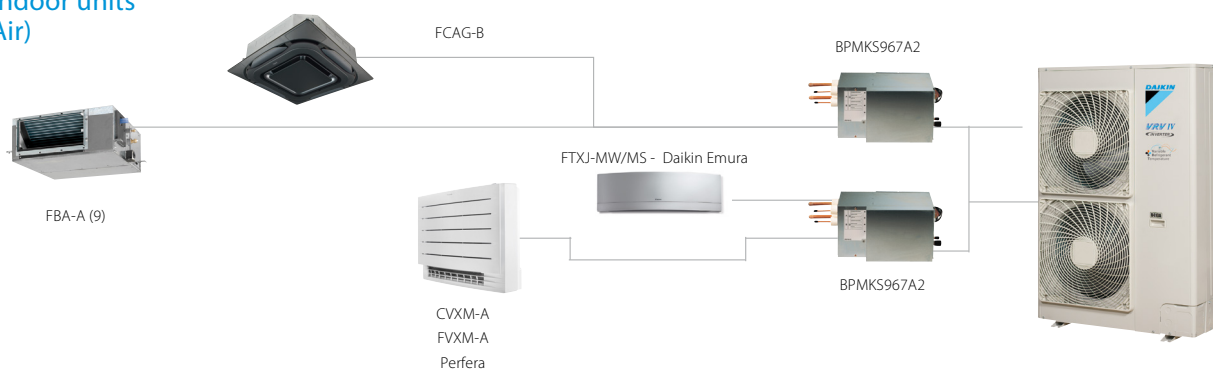


Wide range of indoor units

Connect VRV units...



... or stylish indoor units
(RA and Sky Air)



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		•	•	•	•	•		
Perfera - Wall mounted unit	CTXM-N / FTXM-N	•	•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	
Perfera - Floor standing unit	CVXM-A/FVXM-A		•	•	•		•	•	
Floor standing unit	FVXM-F			•	•		•	•	
Concealed floorstanding unit	FNA-A9			•	•		•	•	

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

* VRV indoor units and stylish indoor units cannot be combined.

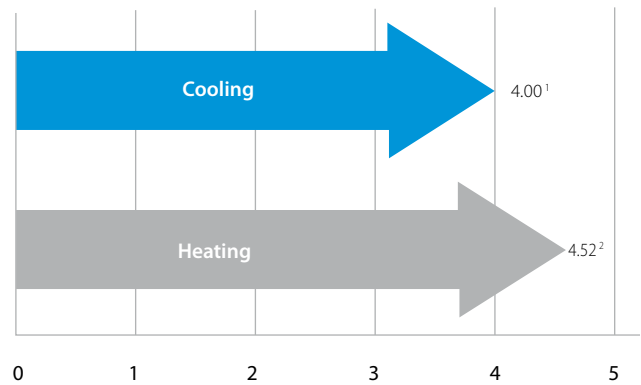
* To connect stylish indoor units a BPMKS unit is needed



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.

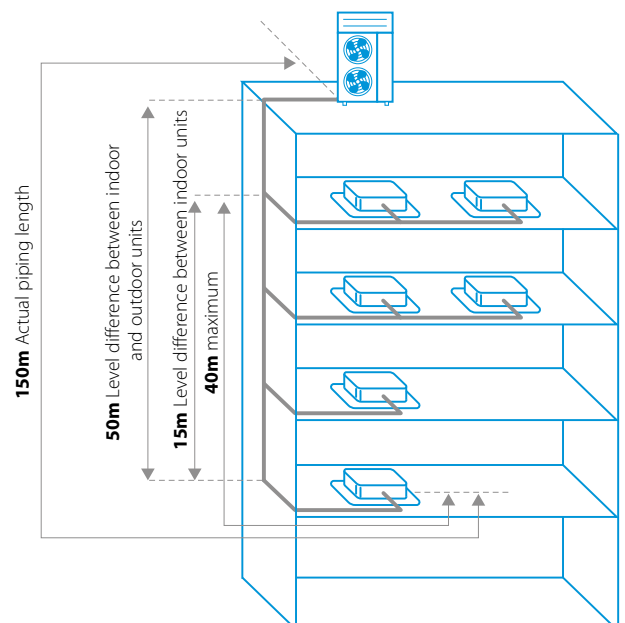
- ¹ Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.
- ² Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: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



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 ¹)	30m
Level difference between indoor units	15m	15m

¹ Outdoor unit in lowest position



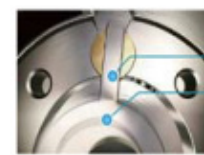
VRV IV S-series technologies

Super aero grille

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

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%



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

Improved fan blades



Old
Air streams collide and generate loss

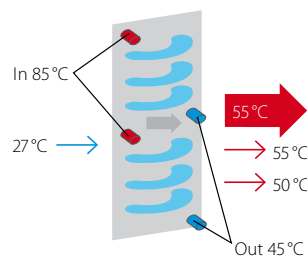


New
Air streams are smoothed around V-cut and reduces air flow loss

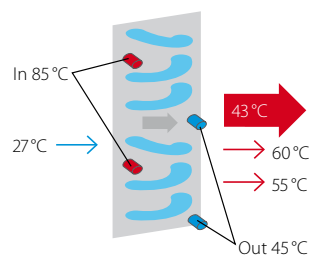
E-Pass heat exchanger

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.

Standard heat exchanger



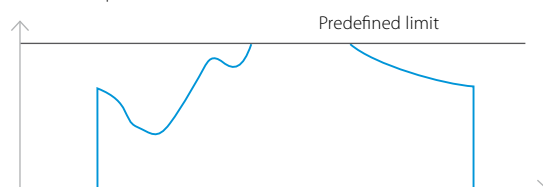
e-Pass heat exchanger



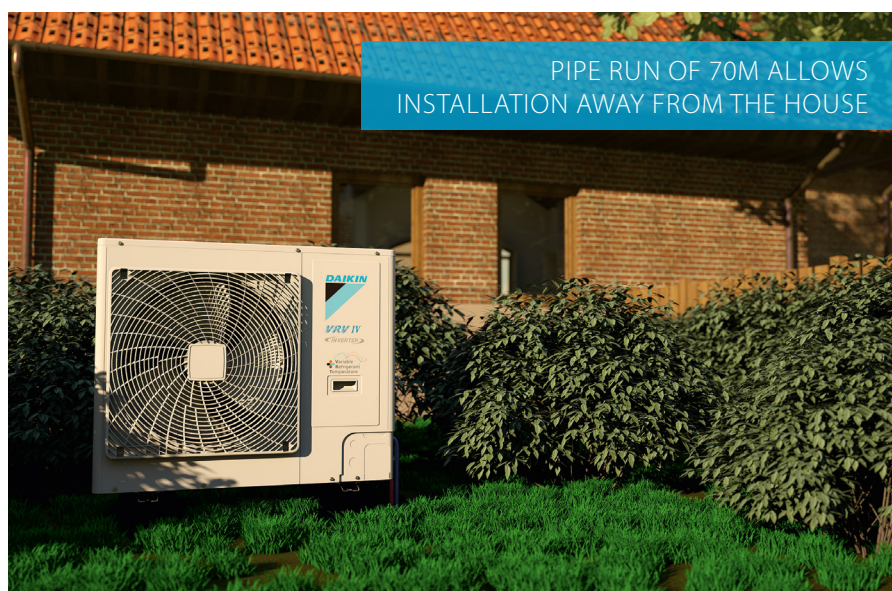
I-demand function

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

Power consumption



Time



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 curtains
- › Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera floor or stylish, ...
- › 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



Sound pressure reduction of up to 8dBa with the low noise option

Only 823mm high!

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								
Perfera - Wall mounted unit	CTXM-N / FTXM-N								
Ceiling suspended unit	FHA-A(9)								
Perfera - Floor standing unit	CVXM-A/FVXM-A								
Floor standing unit	FVXM-F								
Concealed floorstanding unit	FNA-A9								



Access all technical information on RXYSQ-TV1 at my.daikin.eu or click here

NEW

Outdoor unit		RXYSQ	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	16.0	18.0
Recommended combination			3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB
ηs,c		%	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	
Indoor index connection	Min.		50.0	62.5	70.0
	Nom.			-	
	Max.		130.0	162.5	182.0
Dimensions	Unit	HeightxWidthxDepth	mm		
Weight	Unit		kg		
Sound power level	Cooling	Nom.	68.0	69.0	70.0
Sound pressure level	Cooling	Nom.	51.0	52.0	53.0
Operation range	Cooling	Min.~Max.	°CDB		
	Heating	Min.~Max.	°CWB		
Refrigerant	Type/GWP		R-410A/2,087.5		
	Charge	kg/TCO2Eq	3.7/7.7		
Piping connections	Liquid	OD	mm		
	Gas	OD	mm		
	Total piping length	System Actual	m		
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)	A	32		

(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% ≤ CR ≤ 130%).

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 curtains
- › 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



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		•	•		•	•		
Perfera - Wall mounted unit	CTXM-N / FTXM-N	•	•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	
Perfera - Floor standing unit	CVXM-A/FVXM-A		•	•	•		•	•	
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	

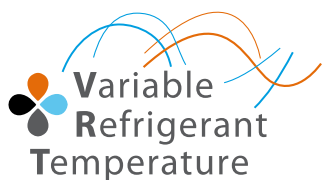
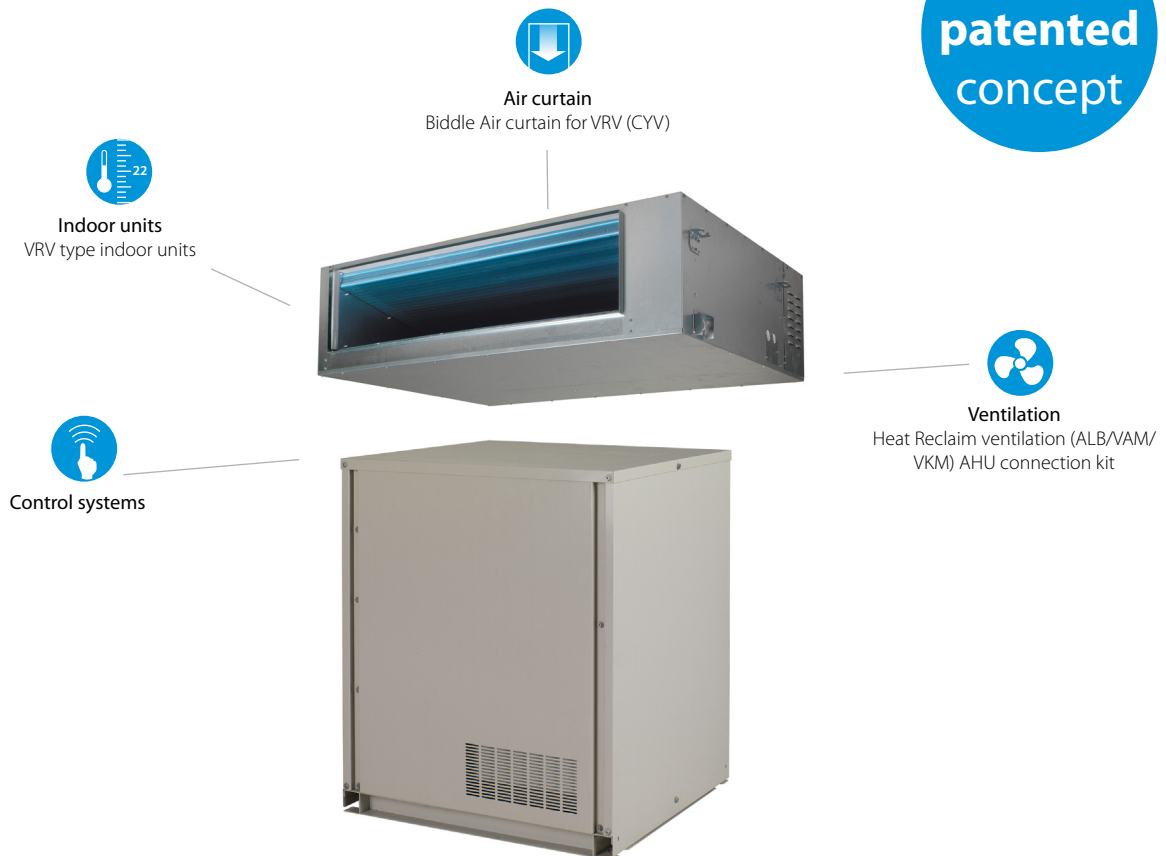


Access all technical information on RXYSQ-TV9
at my.daikin.eu or click here

Outdoor unit				RXYSQ/RXYSQ/RXYSQ	4TV9	5TV9	6TV9	4TY9	5TY9	6TY9	8TY1	10TY1	12TY1
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	
ηs,c			%	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				7.0	6.8	7.0	6.8	6.6	6.8	6.3		6.5	
SCOP				4.4	4.6	4.9	3.9	4.2	4.4	4.2	4.1	4.3	
Maximum number of connectable indoor units				64									
Indoor index connection	Min.			50.0	62.5	70.0	50.0	62.5	70.0	100.0	125.0	150.0	
	Nom.			-									
	Max.			130.0	162.5	182.0	130.0	162.5	182.0	260.0	325.0	390.0	
Dimensions	Unit	HeightxWidthxDepth	mm	1,345x900x320						1,430x940x320	1,615x940x460		
Weight	Unit		kg	104						144	175	180	
Sound power level	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	51.0		50.0	51.0		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									
Refrigerant	Type/GWP			R-410A/2,087.5									
	Charge		kg/TCO2Eq	3.6/7.5						5.5/11.5	7.0/14.6	8.0/16.7	
Piping connections	Liquid	OD	mm	9.52						12.7			
	Gas	OD	mm	15.9		19.1	15.9		19.1	22.2		25.4	
	Total piping length	System	Actual	300									
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/220-240			3N~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA)			A	32			16		25		32	

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%).

VRV IV i-series heat pump for indoor installation



VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

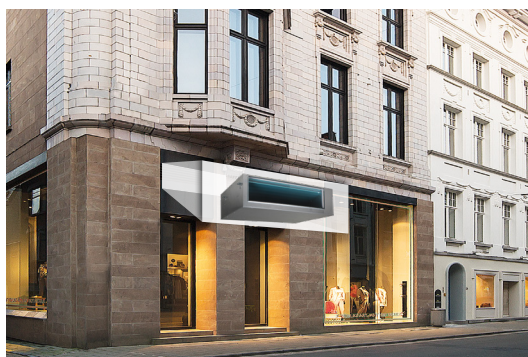
Software for simplified commissioning, configuration and customisation

- › 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

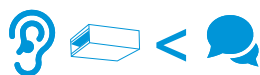
Invisible

- › 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

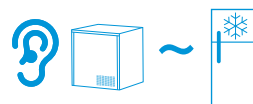


Quiet

- › 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



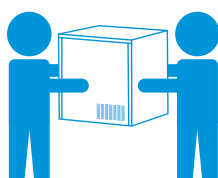
Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

Lightweight parts

- › can be installed by two people

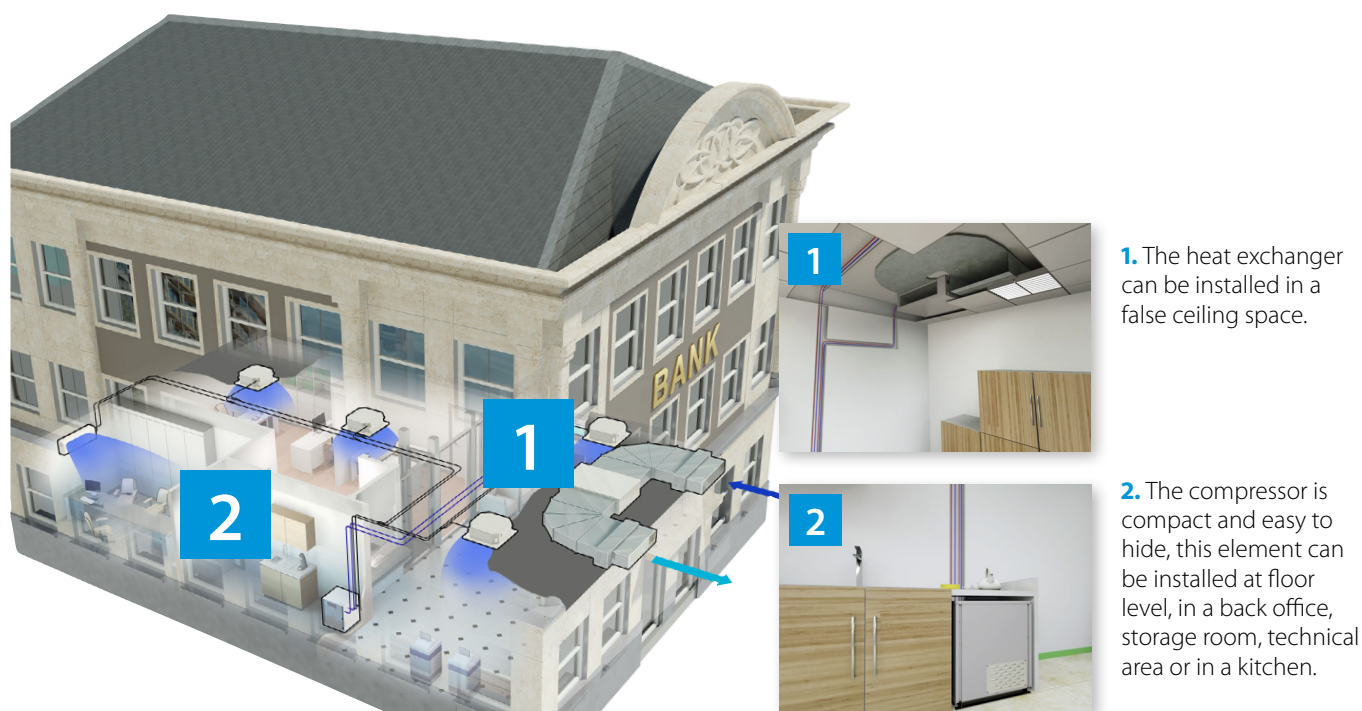


Unique split outdoor unit for indoor installation

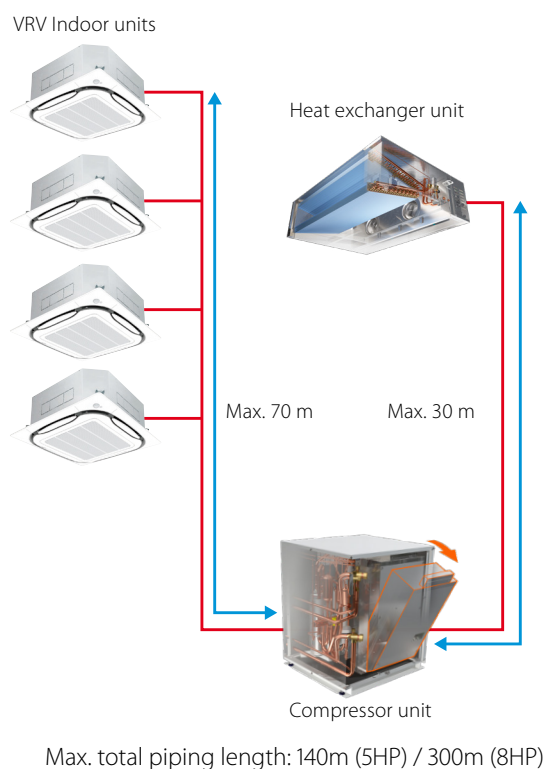
Compact and easy to hide, the compressor can be installed at floor level, in a back office, storage room, technical area or in a kitchen, while the

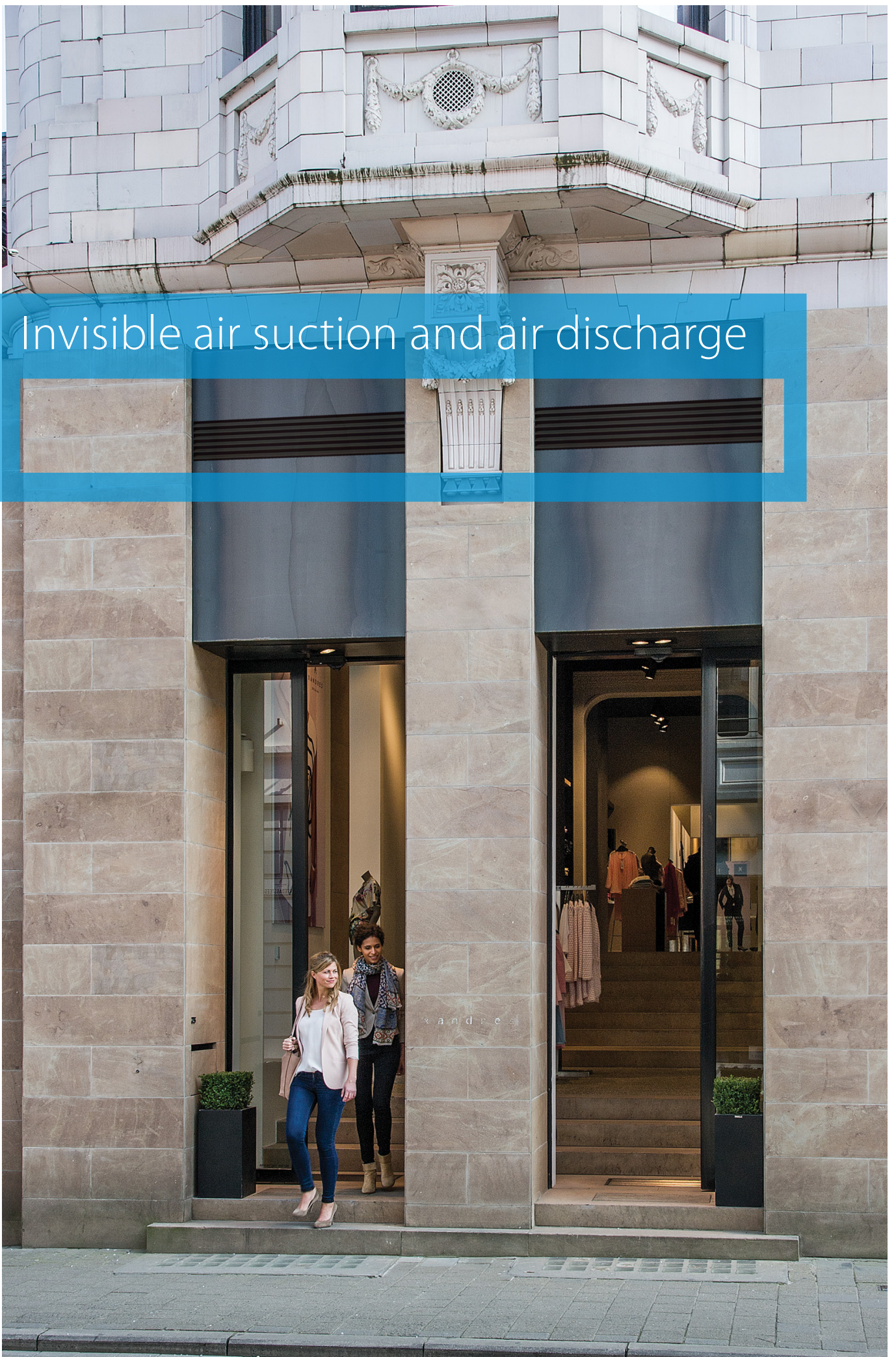
heat exchanger can be installed in a false ceiling space. This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.

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.





The problem solver

for many installation issues

Example 1

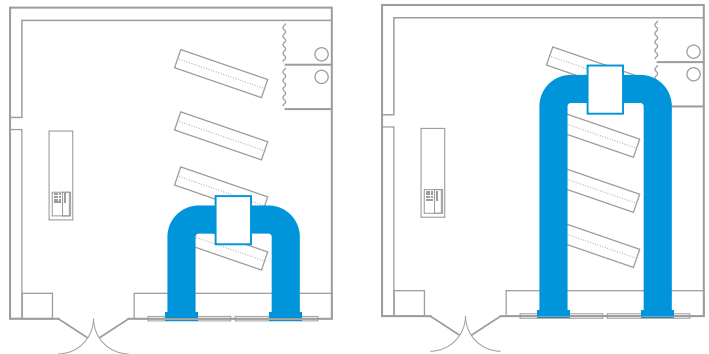
High flexibility

The other way around: install the modules where it 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

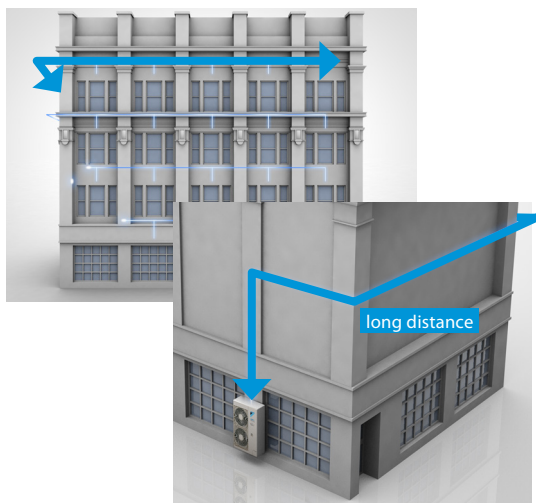


Example 2

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

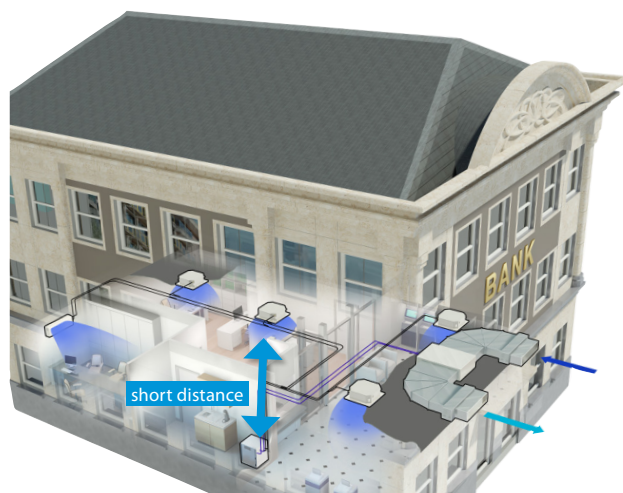
Back alley or rooftop needs very long piping lengths

- › 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

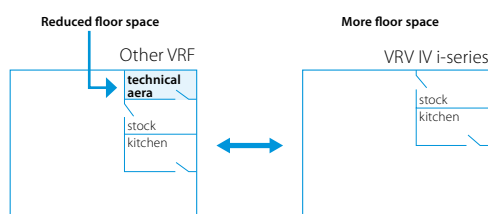


Example 3

No need for bulky and expensive sound countermeasures

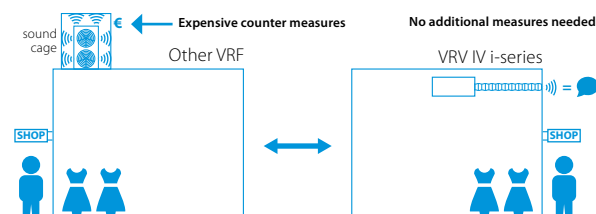
To comply with city regulation countermeasures are needed for standard units

- › 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

8
patents

Optimised air flow and temperature distribution

- › Best performance for defrost
(tested in high humidity down to -20°C).

Patented perforated and insulated partition plate

- › Reduces conductivity and
prevents cold bridges

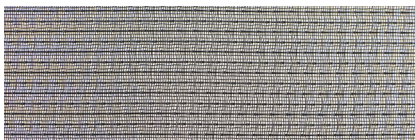


Only
400mm
high

- › Fits easily in
any false ceiling

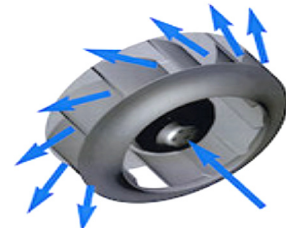
Standard delivered filter

- › with the unit to prevent dirt from entering
the heat exchanger



Super efficient centrifugal fans

- › Over 50% efficiency increase compared
to sirocco fan
- › Patented backward- curved blade
technology
- › More pressure increase



Compressor unit with rotating switchbox

Flexible and easy to install

Flexibility by back and top refrigerant connection possibility

Rotating switchbox

- › For easy access to all compressor parts

Only
77 kg
(5HP)

Tube-in-tube
subcool heat
exchanger

- › This patented heat exchanger increases the capacity of the system by ensuring optimal state of refrigerant in the heat exchanger module. This in turn increases overall efficiency.

No drain connection
needed

- › Thanks to natural evaporation
- › Minimized cold surface to reduce dew formation
- › Fast and easy installation

Non welded
bottom casing

- › Avoids any corrosion risk

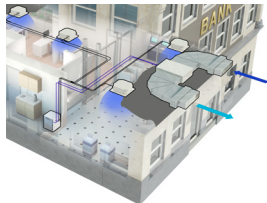
Small footprint

- › Maximizes useable floor space (600 x 554 mm for 5HP)
- › Can easily be mounted in a storage room, back office, ...

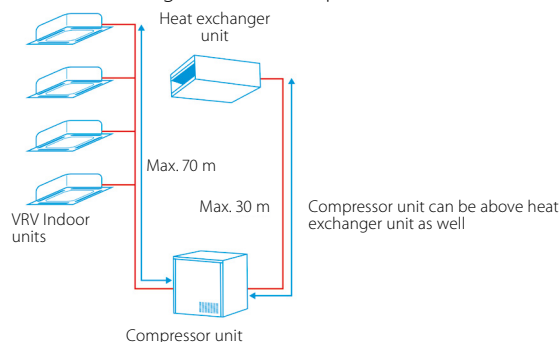
VRV IV heat pump for indoor installation

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
- › 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 curtains
- › 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



Access all technical information on SB-RKXYQ-T at my.daikin.eu or click here



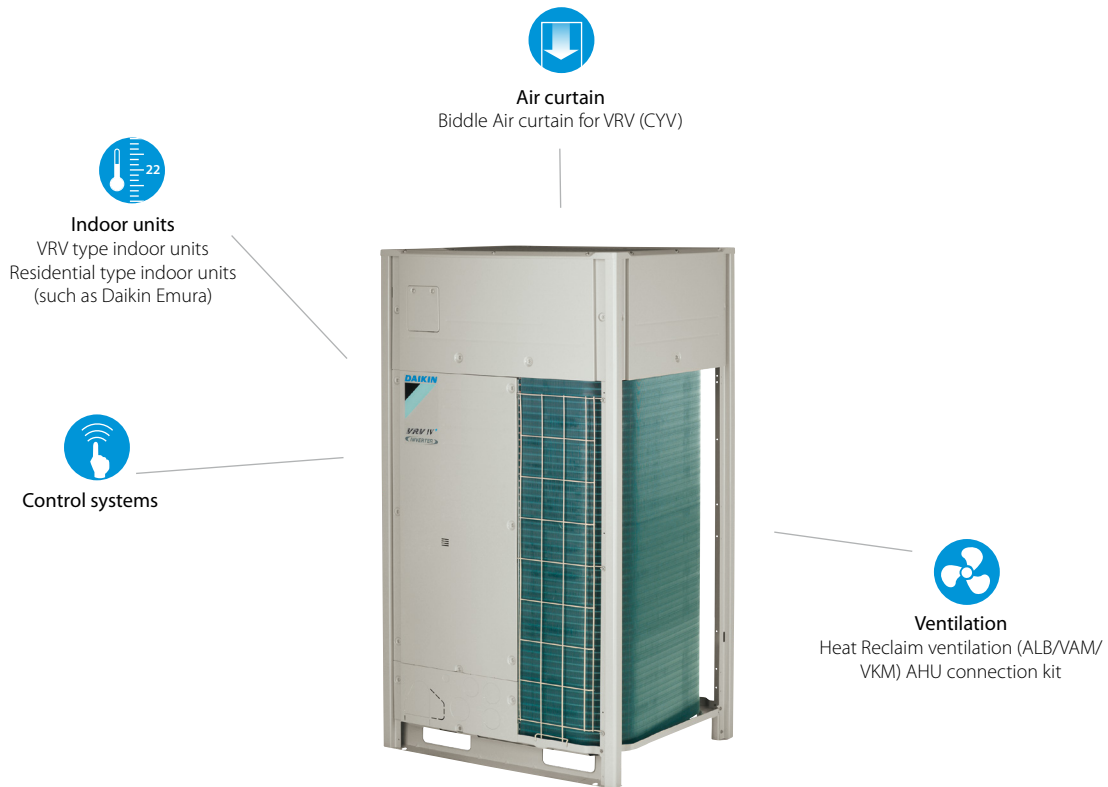
Access all technical information on SB-RKXYQ-T(8) at my.daikin.eu or click here

System		SB.RKXYQ		5T8		8T	
System		Heat exchanger unit		RDXQ5T8		RDXQ8T	
		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 combination		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 indoor units		10		17			
Indoor index connection	Min.	62.5		100.0			
	Nom.						
	Max.	162.5		260.0			
Piping connections	Liquid	OD	mm				
	Gas	OD	mm				
	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	OD	mm	12.7		
		Gas	OD	mm	19.1	22.2	
	Between Compressor module (CM) and indoor units (IU)	Liquid	OD	mm	9.52		
		Gas	OD	mm	15.9	19.1	
	Total piping length	System	Actual	m	140	300	
				Heat exchanger module - RDXQ		Compressor module - RKXYQ	
				5T8	8T	5T8	8T
Dimensions	Unit	HeightxWidthxDepth	mm	397x1,456x1,044		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-410A/-		R-410A/2,087.5	
	Charge		kg/TCO2Eq	-/-		2.00/4.20	4.00/8.35
Power supply	Phase/Frequency/Voltage			1N~/50/220-240		3N~/50/380-415	
Current - 50Hz	Maximum fuse amps (MFA)			10		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% ≤ CR ≤ 130%).

VRV IV C⁺ series

Where heating is priority without compromising on efficiency



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



VRV IV+ heat pump,
optimised for cold climates

RXYLQ-T

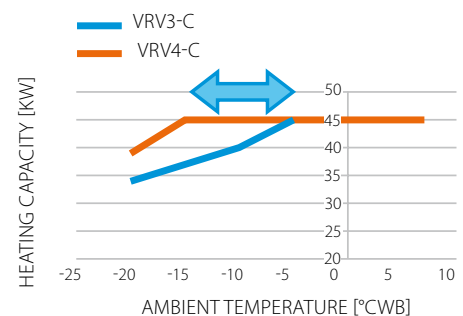


Where heating is priority
without compromising on efficiency



High heating capacity at low ambient temperatures

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



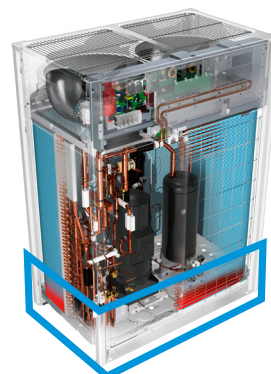
High partial load efficiency

- › 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 occurring with standard vapour injection compressors
- › Variable Refrigerant Temperature adjusts refrigerant temperature to match the load



High reliability down to -25°C WB

- › Hot gas bypass prevents ice buildup at the b of the heat exchanger





Already fully compliant
to LOT 21 - Tier 2

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



Perfera
Floor standing unit



Fully flat cassette



Biddle air curtain



Intelligent Touch Manager



Air handling unit for ventilation



Low temperature hydrobox

VRV heat pump optimised for heating

Where heating is priority without compromising on efficiency

- 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
- 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 curtains
- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera floor or stylish, ...)
- 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



Already fully compliant
to LOT 21 - Tier 2

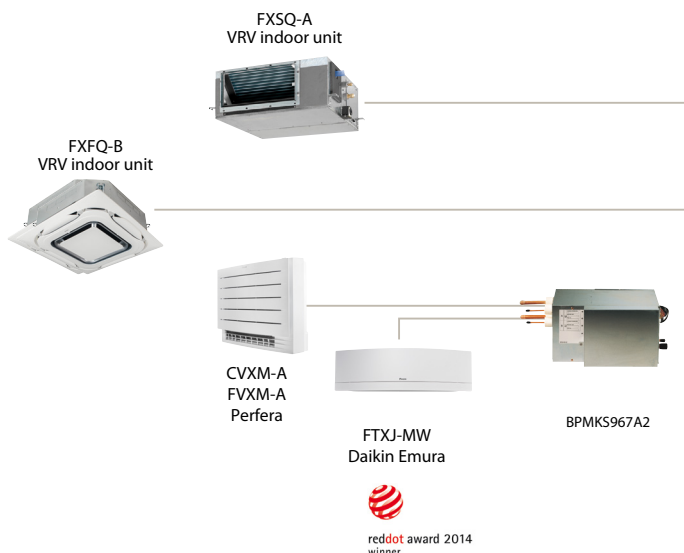
**Published data with
real-life indoor units**



Access all technical information on RXYLQ-T
at my.daikin.eu or click here

Outdoor unit				RXYLQ	10T	12T	14T
Capacity range				HP	10	12	14
Cooling capacity	Prated,c			kW	28	33.5	40
Heating capacity	Prated,h			kW	31.5	37.5	45
	Max.	6°CWB		kW	31.50	37.50	45.00
Recommended combination					4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
ηs,c				%	251.4	274.4	270.1
ηs,h				%	144.3	137.6	137.1
SEER					6.36	6.93	6.83
SCOP					3.68	3.51	3.5
Maximum number of connectable indoor units						64 (1)	
Indoor index connection	Min.				175	210	245
	Nom.				250	300	350
	Max.				325	390	455
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x1,240x765		
Weight	Unit			kg	302		
Sound power level	Cooling	Nom.		dB(A)	77	81	81
Sound pressure level	Cooling	Nom.		dB(A)	56	59	59
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0		
	Heating	Min.~Max.		°CWB	-25.0~16.0		
Refrigerant	Type/GWP				R-410A/2,087.5		
	Charge			kg/TCO2Eq	11.8/24.6		
Piping connections	Liquid	OD		mm	9.5		12.7
	Gas	OD		mm	22.2		28.6
	Total piping length	System	Actual	m	500		
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	25	32	

Outdoor unit				RXYLQ	16T	18T	20T	22T	24T	26T	28T
System	Outdoor unit module 1				RXMLQ8T	RXYLQ10T	RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ14T
	Outdoor unit module 2				RXMLQ8T	RXMLQ8T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ14T	RXYLQ14T
Capacity range				HP	16	18	20	22	24	26	28
Cooling capacity	Prated,c			kW	44.8	50.4	56	61.5	67	73.5	80
Heating capacity	Prated,h			kW				-			
	Max.	6°CWB		kW	50	56.5	63	69	75	82.5	90
Recommended combination					4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
ηs,c				%	261.8	255.7	251.4	263.0	274.4	270.8	270.1
ηs,h				%	138.0	140.5	144.3	140.3	137.6	137.1	137.1
SEER					3.52	3.59	3.68	3.58	3.51	3.50	3.50
SCOP					6.62	6.47	6.36	6.65	6.93	6.84	6.83
Maximum number of connectable indoor units					64 (1)						
Indoor index connec- tion	Min.				280	315	350	385	420	455	490
	Nom.				400	450	500	550	600	650	700
	Max.				520	585	650	715	780	845	910
Piping connections	Liquid	OD		mm	12.7	15.9	15.9	15.9	15.9	19.1	
	Gas	OD		mm	28.6	28.6	28.6	28.6		34.9	
	Total piping length	System	Actual	m	500						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	40	45	50	60			



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	•	•	•	•	•	
Perfera - Floor standing unit	CVXM-A/FVXM-A	•	•	•		•	•
Floor standing unit	FVXM-F		•	•		•	

BPMKS box needed to connect RA indoors to VRV IV

Outdoor unit				RXYLQ	30T	32T	34T	36T	38T	40T	42T
System	Outdoor unit module 1				RXYLQ10T	RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ14T
	Outdoor unit module 2				RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ14T	
	Outdoor unit module 3					RXYLQ12T			RXYLQ14T		
Capacity range			HP		30	32	34	36	38	40	42
Cooling capacity	Prated,c		kW		84	89,5	95	101	107	114	120
Heating capacity	Prated,h		kW					-			
	Max.	6°CWB	kW		94,5	100,5	106,5	112,5	120	127,5	135
Recommended combination					9 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 9 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	9 x FXMQ50P7VEB + 9 x FXMQ63P7VEB	12 x FXMQ63P7VEB + 4 x FXMQ80P7VEB
ηs,c			%		251.4	259.1	266.8	274.4	271.6	270.3	270.1
ηs,h			%		144.3	141.6	139.2	137.6	137.1	137.1	137.1
SEER					3.86	3.61	3.56	3.51	3.50	3.50	3.50
SCOP					6.36	6.55	6.74	6.93	6.86	6.83	6.83
Maximum number of connectable indoor units					64 (1)						
Indoor index connection	Min.				525	560	595	630	665	700	735
	Nom.				750	800	850	900	950	1000	1050
	Max.				975	1040	1105	1170	1235	1300	1365
Piping connections	Liquid	OD		mm	19,1	19,1	19,1	19,1	19,1	19,1	19,1
	Gas	OD		mm	34,9	34,9	34,9	41,3		41,3	
	Total piping length		System	Actual	m	500					
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	80				90		

Outdoor unit				RXMLQ	8T
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x1,240x765
Weight	Unit			kg	302
Sound power level	Cooling	Nom.		dBA	75,0
Sound pressure level	Cooling	Nom.		dBA	55,0
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0
	Heating	Min.~Max.		°CWB	-25.0~16.0
Refrigerant	Type/GWP				R-410A/2,087.5
	Charge			kg/TCO2Eq	11.8/24.6
Piping connections	Liquid	OD		mm	9.5
	Gas	OD		mm	19.1
	Total piping length	System	Actual	m	500
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

(1) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system



The Post, 5-star hotel,
VRV IV

DAIKIN

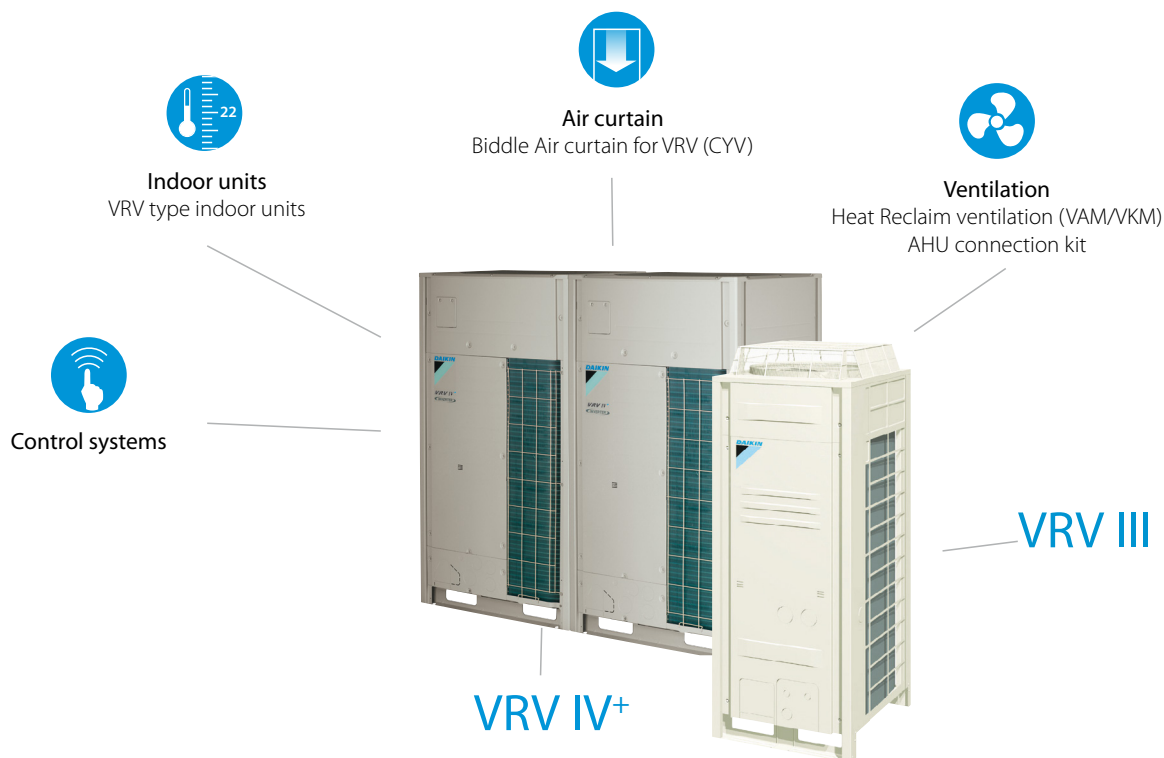


VRV IV

INVERTER

Replacement VRV

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



VRV IV Q⁺ series

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

VRV III-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

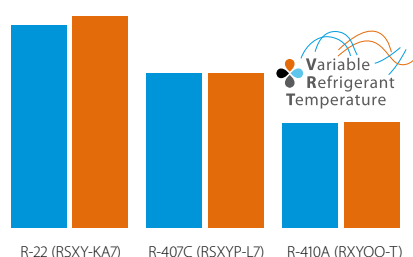
No interruption of daily business while replacing the system thanks to phased-in, fast installation.

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

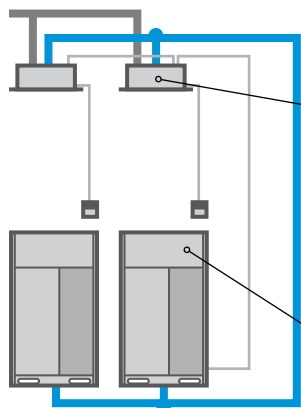
EU Directives prohibit system repairs with R-22 after January 1, 2015. Delaying the required R-22 replacement until an unplanned system breakdown is a losing game. Replacement day will come. Installing a technically advanced system lowers energy consumption and maintenance costs from day one.



Up to 48% less consumption

Comparison of 10HP systems:
■ Cooling mode
■ Heating mode

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

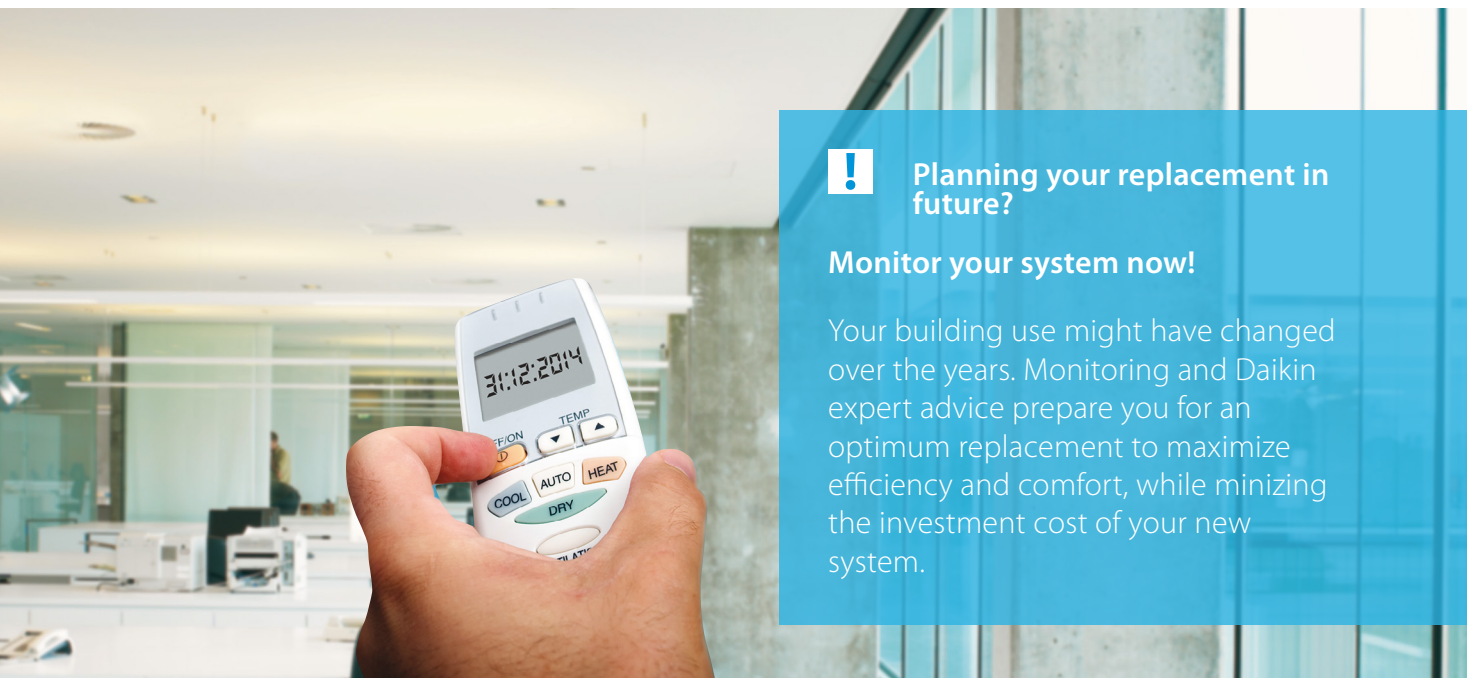
Your copper pipes will last for multiple generations

- > copper pipes used in air conditioning systems tested by Daikin will 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:





Planning your replacement in future?

Monitor your system now!

Your building use might have changed over the years. Monitoring and Daikin expert advice prepare you for an optimum replacement to maximize efficiency and comfort, while minimizing the investment cost of your new system.

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.

Compare installation steps

Conventional solution

- 1 Recover refrigerant
- 2 Remove units
- 3 Remove refrigerant pipes
- 4 Install new piping and wiring
- 5 Install new units
- 6 Leak test
- 7 Vacuum drying
- 8 Refrigerant charging
- 9 Collect contamination
- 10 Test operation

VRV-Q

- 1 Recover refrigerant
- 2 Remove units
- Re-use existing piping and wiring
- 3 Install new units
- 4 Leak test
- 5 Vacuum drying
- 6 Automatic refrigerant charging, cleaning and testing



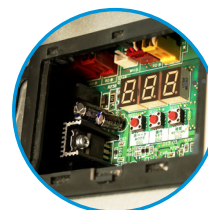
**Up to 45% shorter
installation time**

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.



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 replacement 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**



Access all technical information on RQCEQ-P3
at my.daikin.eu or click here

Outdoor unit System				RQCEQ	280P3	360P3	460P3	500P3	540P3	636P3	712P3	744P3	816P3	848P3
System	Outdoor unit module 1				RQE140P3	RQE180P3	RQE140P3		RQE180P3	RQE212P3	RQE140P3		RQE180P3	RQE212P3
	Outdoor unit module 2				RQE140P3	RQE180P3	RQE140P3	RQE180P3		RQE212P3	RQE180P3		RQE212P3	
	Outdoor unit module 3				-		RQE180P3			RQE212P3	RQE180P3	RQE212P3		
	Outdoor unit module 4				-			-			RQE212P3			
Capacity range				HP	10	13	16	18	20	22	24	26	28	30
Cooling capacity	Prated,c			kW	28.0	36.0	46.0	50.0	54.0	60.0	70.0	72.0	78.0	80.0
Heating capacity	Prated,h			kW	32.0	40.0	52.0	56.0	60.0	67.2	78.4	80.8	87.2	89.6
Recommended combination					4x FIMQ63P7VEB	4x FIMQ63P7VEB + 2x FIMQ63P7VEB	4x FIMQ63P7VEB + 2x FIMQ80P7VEB	4x FISO32AZVEB + 8x FISO40AZVEB	12x FISO40AZVEB + 9x FISO50AZVEB	3x FISO40AZVEB + 9x FISO50AZVEB + 3x FISO50AZVEB	4x FISO32AZVEB + 9x FISO40AZVEB + 6x FISO40AZVEB	4x FISO32AZVEB + 6x FISO40AZVEB + 6x FISO50AZVEB	7x FISO40AZVEB + 9x FISO50AZVEB	4x FISO40AZVEB + 12x FISO50AZVEB
ηs,c				%	200	185	191	201	198	186	194		204	187
ηs,h				%	159	157	161	150	148	157	153	155		157
SEER				-										
SCOP				-										
Maximum number of connectable indoor units					21	28	34	39	43	47	52	56	60	64
Indoor index connection	Min.				140	180	230	250	270	318	356	372	408	424
	Nom.				280	360	500		540	636	712	744	816	848
	Max.				364	468	598	650	702	827	926	967.0	1,061	1,102
Piping connections	Liquid	OD		mm	9.52	12.7		15.9				19.1		
	Gas	OD		mm	22.2	25.4	28.6				34.9			
	Total piping length	System	Actual	m	300									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									
Current - 50Hz	Maximum fuse amps (MFA)			A	30	40	50	60	70	80	90			
Outdoor unit module				RQE-Q-P3	140P3			180P3			212P3			
Dimensions	Unit	HeightxWidthxDepth		mm				1,680x635x765						
Weight	Unit			kg				175			179			
Fan	Air flow rate	Cooling	Nom.	m³/min	95						110			
	Type							Propeller fan						
Sound power level	Cooling	Nom.		dB(A)	79			83			87			
Sound pressure level	Cooling	Nom.		dB(A)	-									
Operation range	Cooling	Min.~Max.		°CDB	-5~43									
	Heating	Min.~Max.		°CWB	-20~-15.5									
Refrigerant	Type/GWP				R-410A/2,087.5									
	Charge			kg/TCO2Eq	10.3/21.5			10.6/22.1			11.2/23.4			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415									
Current - 50Hz	Maximum fuse amps (MFA)			A	15			20			22.5			



Replacement VRV, heat pump



RXYQQ8-12U



Access all technical information on RQYQ-P at my.daikin.eu or click here



Access all technical information on RXYQQ-U at my.daikin.eu or click here

Outdoor unit				RXYQQ/RQYQ-P	140P	8U	10U	12U	14U	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 combination					4 x FXSQ32A2VEB	4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB				
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 connectable indoor units					10	64 (1)										
Indoor index connection	Min.				62.5	100.0	125.0	150.0	175.0	200.0	225.0	250.0				
	Nom.				125	-										
	Max.				162.5	260.0	325.0	390.0	455.0	520.0	585.0	650.0				
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x635x765		1,685x930x765		1,685x1,240x765							
Weight	Unit			kg	175	198			275		308					
Fan	Air flow rate	Cooling	Nom.	m³/min	95	-										
Sound power level	Cooling	Nom.		dB(A)	79	78.0	79.1	83.4	80.9	85.6	83.8	87.9				
Sound pressure level	Cooling	Nom.		dB(A)	-	57.0		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				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	Liquid	OD		mm	9.52	9.52		12.7		15.9						
	Gas	OD		mm	15.9	19.1	22.2	28.6								
	Total piping length	System	Actual	m	300											
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415		3N~/50/380-415									
Current - 50Hz	Maximum fuse amps (MFA)			A	15	20	25	32		40		50				
Outdoor unit System + Module				RXYQQ	22U	24U	26U	28U	30U	32U	34U	36U	38U	40U	42U	
System	Outdoor unit module 1				RXYQQ10U	RXYQQ8U	RXYQQ12U			RXYQQ16U			RXYQQ8U	RXYQQ10U		
	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 combination					6 x FXFQ50AVEB + 4 x FXFQ63AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	7 x FXFQ50AVEB + 5 x FXFQ63AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 5 x FXFQ63AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB	3 x FXFQ50AVEB + 9 x FXFQ63AVEB + 2 x FXFQ80AVEB	2 x FXFQ50AVEB + 10 x FXFQ63AVEB + 2 x FXFQ80AVEB	6 x FXFQ50AVEB + 10 x FXFQ63AVEB	9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB	
ηs,c				%	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 units					64											
Indoor index connection	Min.				275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0	
	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 connections	Liquid	OD		mm	15.9		19.1									
	Gas	OD		mm	28.6	34.9							41.3			
	Total piping length	System	Actual	m	300											
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415											
Current - 50Hz	Maximum fuse amps (MFA)			A	63				80				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%)

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



Indoor units

VRV type indoor units OR
Residential type indoor units
(such as Daikin Emura, ...)



Control systems



Air curtain

Biddle Air curtain for VRV (CYV)



Hot water

High temperature hydrobox
Low temperature hydrobox



Ventilation

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



Widest range of BS boxes for the fastest installation



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



Water-to-air heat pump

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 cooling in the technical room
- › Control heat dissipation to achieve maximum efficiency: set target technical room temperature and unit regulates actual heat dissipation

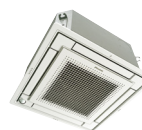
Total solution



Daikin Emura
wall mounted unit



Perfera
Floor standing unit



Fully flat cassette



Intelligent
Manager



Biddle air curtain



Air handling unit for ventilation



Low temperature hydrobox



High temperature hydrobox

With all existing standard functions

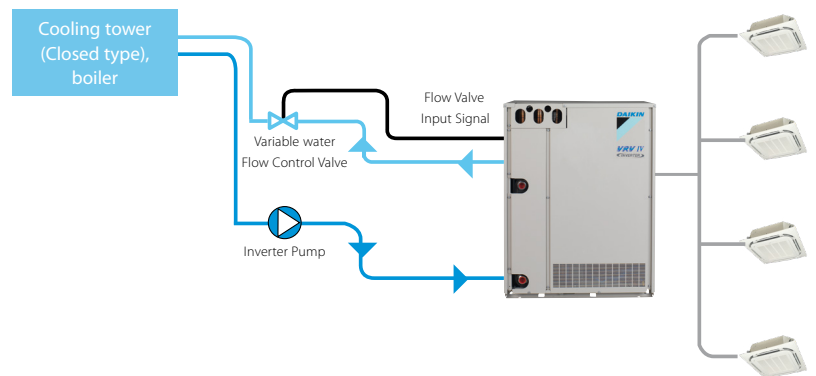
Indoor installation makes unit invisible from the outside

- › 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



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

Single port



BS1Q 10,16,25A

Multi port: 4 – 6 – 8 – 10 – 12 – 16



BS 4 Q14 A



BS 6, 8 Q14 A



BS 10, 12 Q14 A

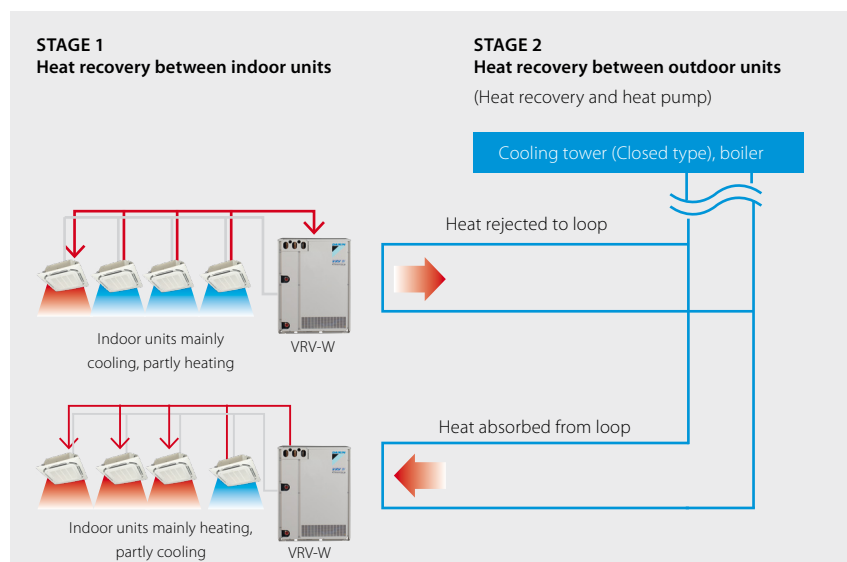


BS 16 Q14 A

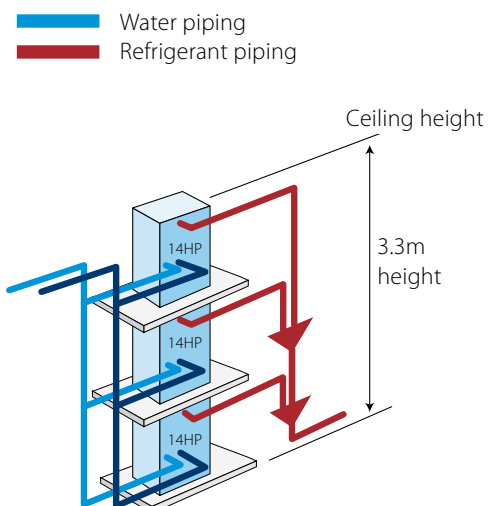
Maximum design flexibility and installation speed

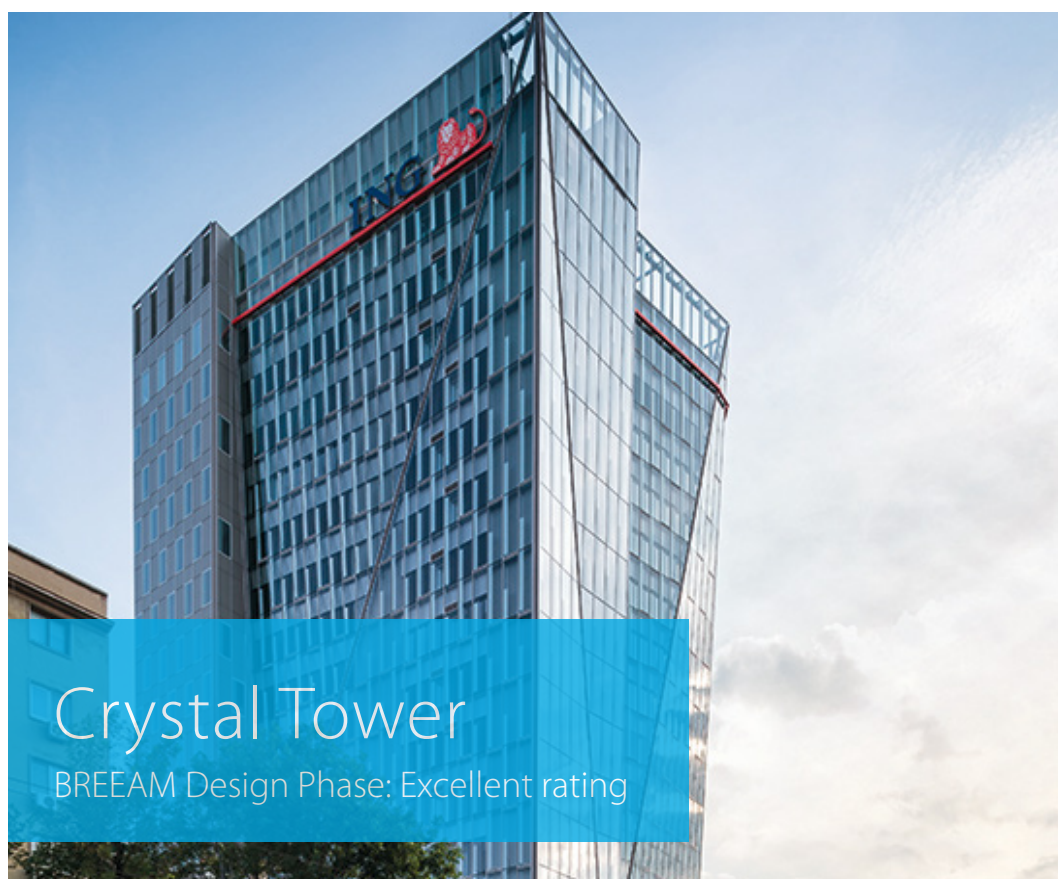
Quickly and flexibly design your system with a unique range of single and multi BS boxes. A wide variety of compact and lightweight multi BS boxes greatly reduces installation time. Free combination of single and multi BS boxes

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 m²
Total usable area: 20,020 m²
Floors: 4 basements, 15 floors, technical floor
Building height: 72 m
Office space per level: approx. 1,000 m²

Daikin systems installed

- › 67 x VRV water-cooled units
- › 2 x VRV outdoor heat pump units
- › 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)

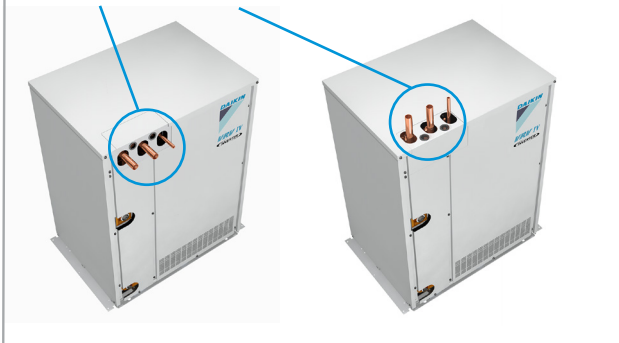
Awards

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

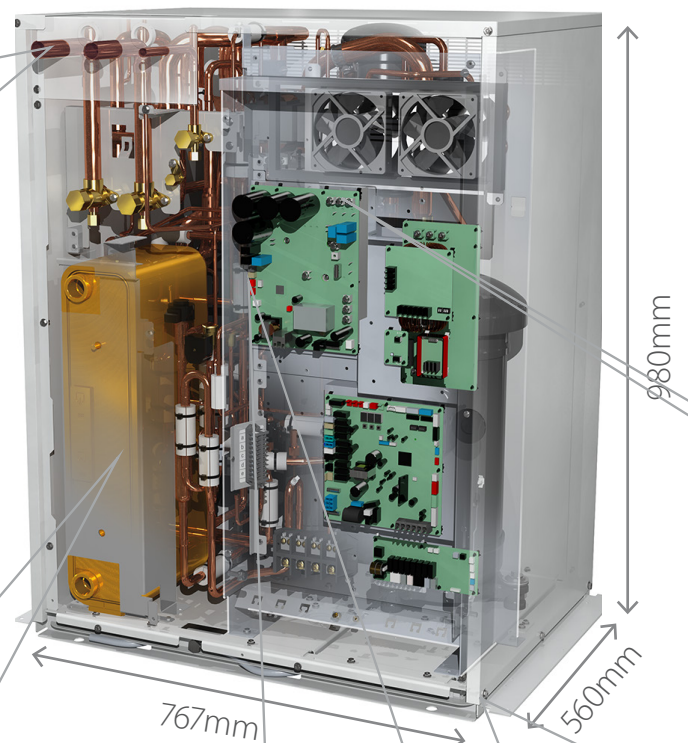
Innovations

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

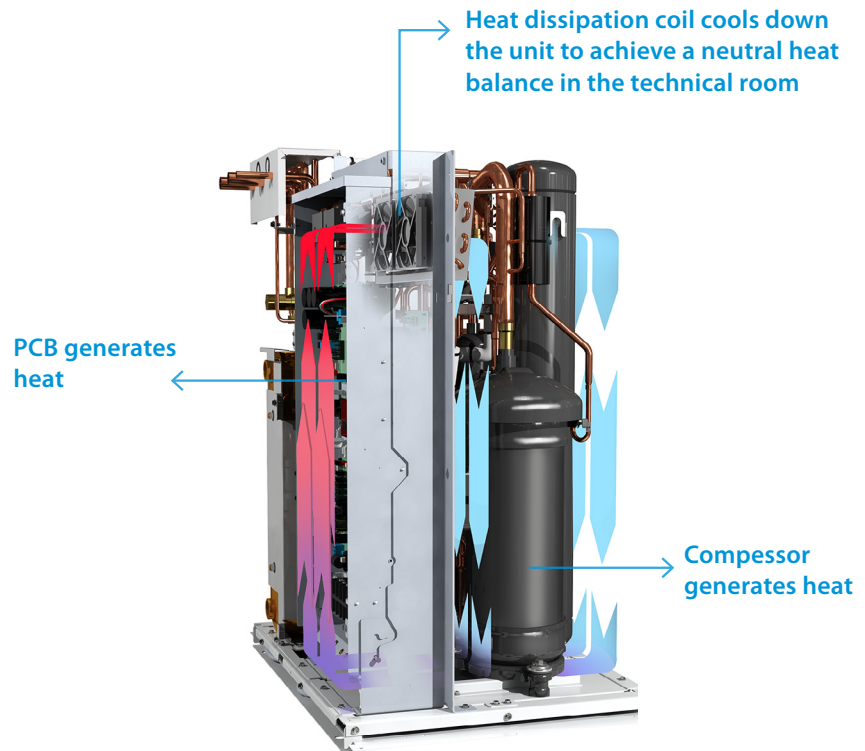


step 2



Zero heat dissipation principle

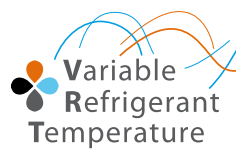
- › No need for ventilation or cooling of the technical room
- › Enhancing installation flexibility and reliability of parts



Minimal technical room space required.



VRV IV technology

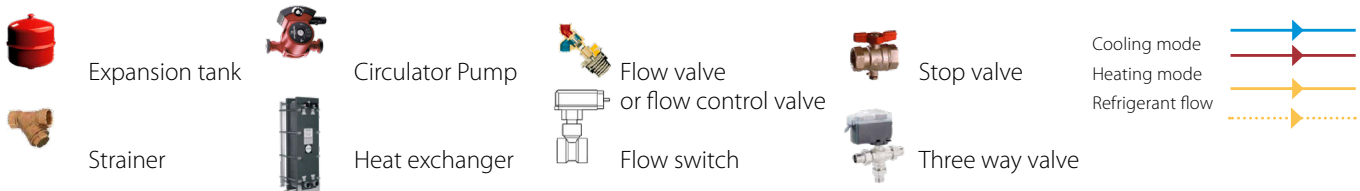
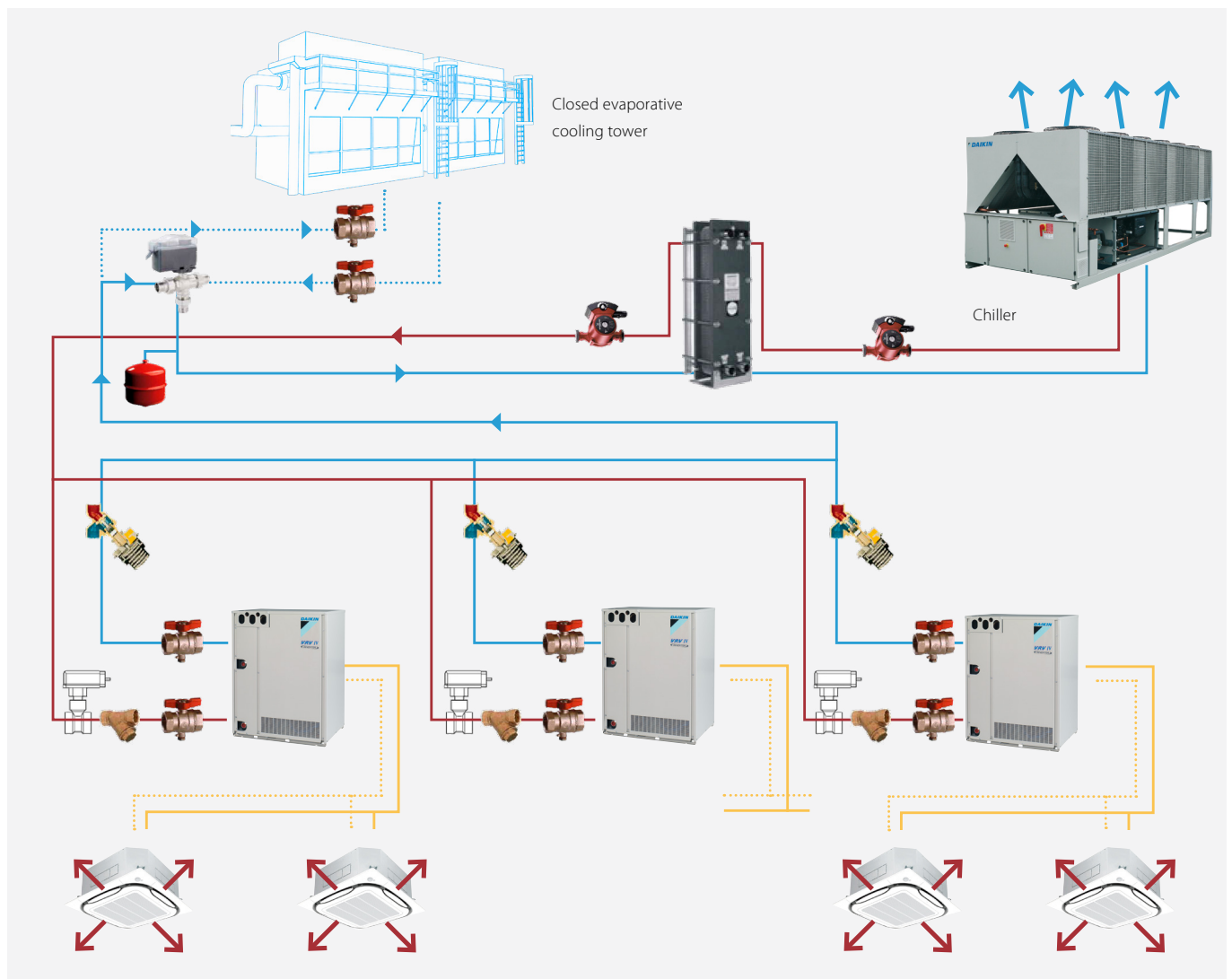


- › VRV configurator
- › 7 segment display

Application

example

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



Benefits of this setup

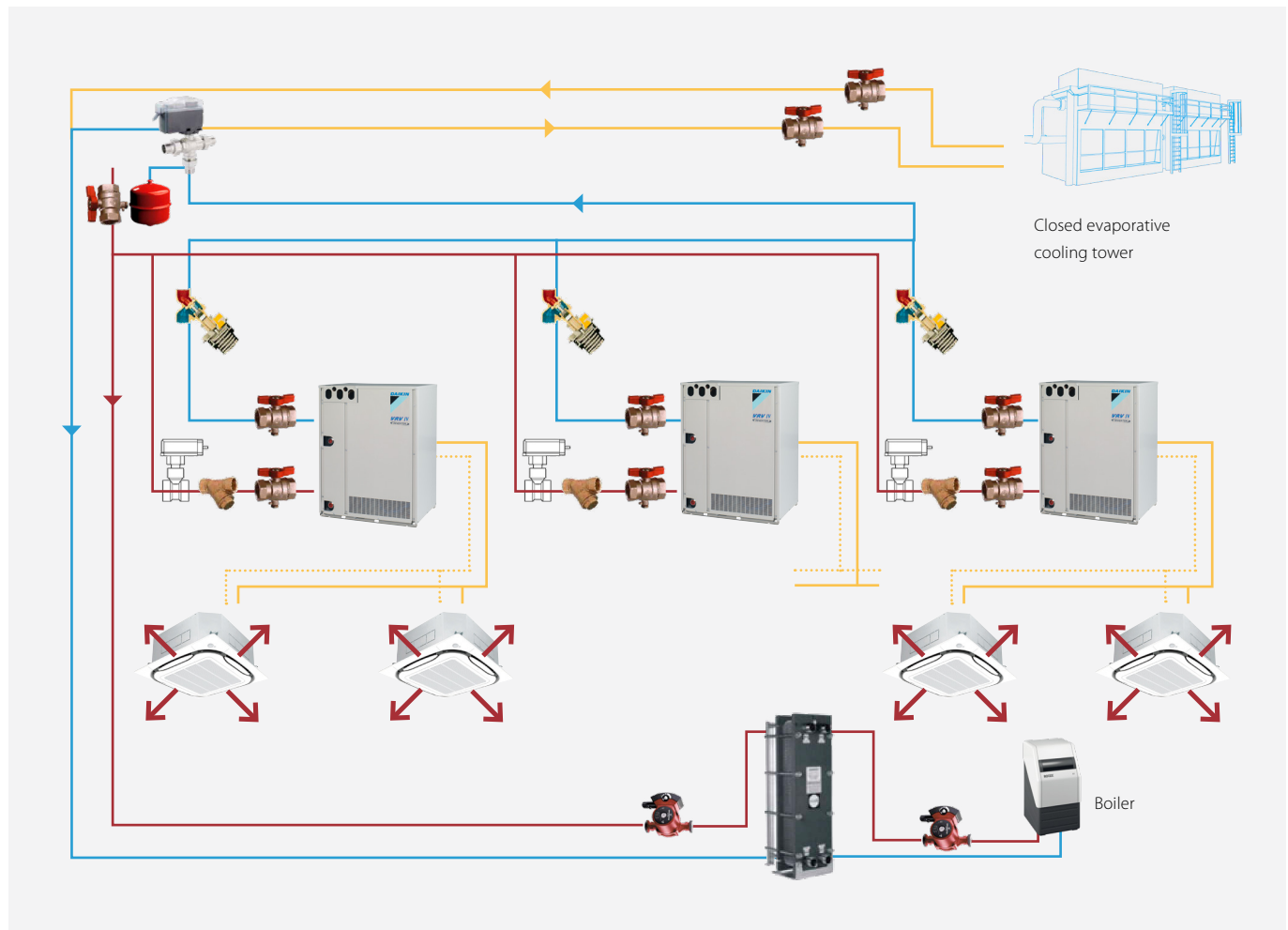
- › Chiller is only used when cooling tower capacity is not enough and/or when cooling and heating load of VRF is unbalanced → very energy efficient installation
- › In case the chiller is operating, a renewable heat source (air) is used, contributing to BREEAM score.
- › It is possible to downsize the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



Expansion tank



Strainer



Circulator Pump



Heat exchanger



Flow valve
or flow control valve



Flow switch



Stop valve



Three way valve

Cooling mode



Heating mode



Refrigerant flow



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.

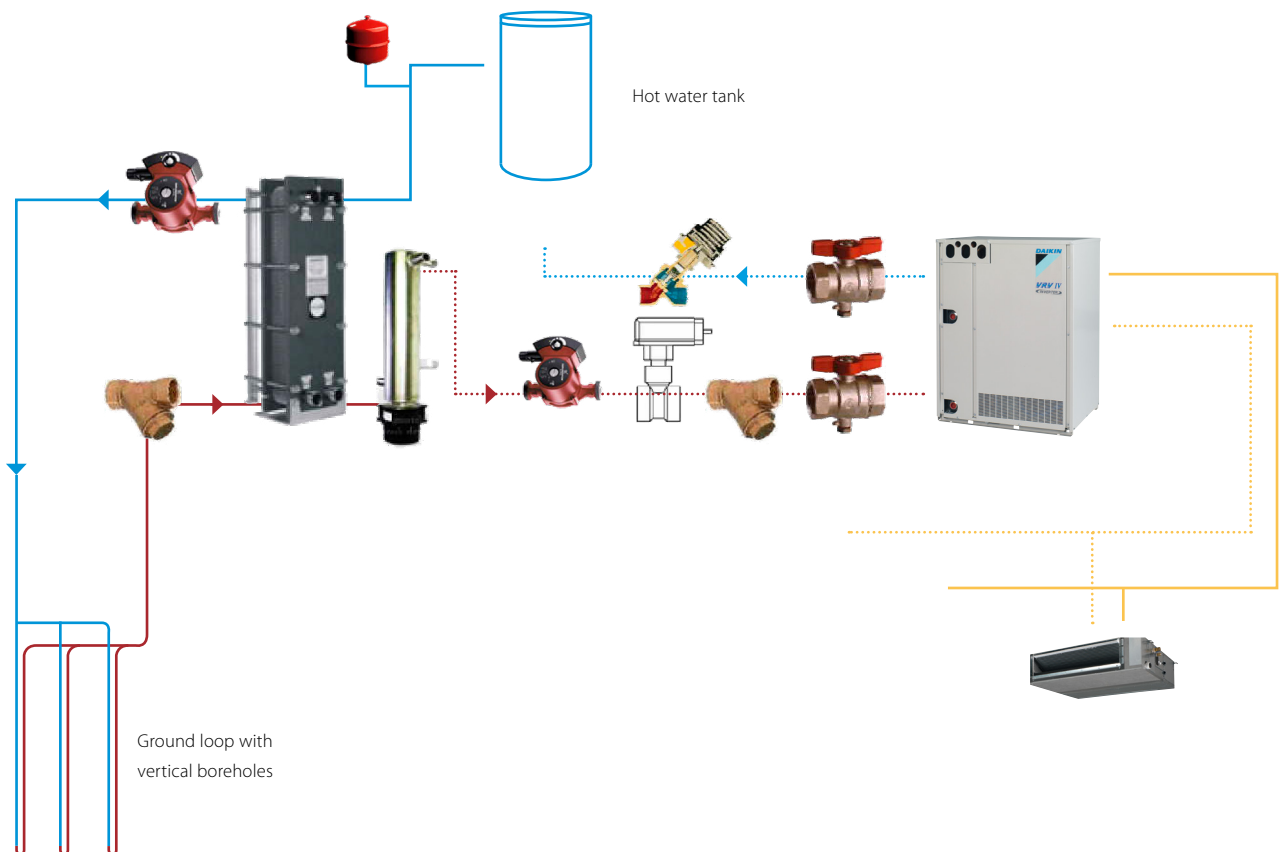
When to use?

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

Application

example

Geothermal operation



Expansion tank



Circulator Pump



Heat exchanger



Flow switch

Cooling mode
Heating mode
Refrigerant flow



Strainer



Buffer tank



Flow valve
or flow control valve



Stop valve



Three way valve

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?

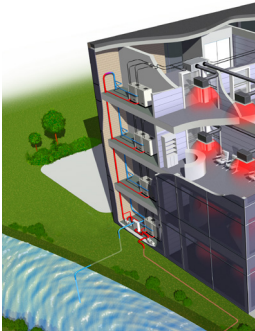
- › When the soil is suitable for geothermal loops and there is availability of geothermal installation expertise locally
- › For the projects with high requirements to energy efficiency, green building certification oriented

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



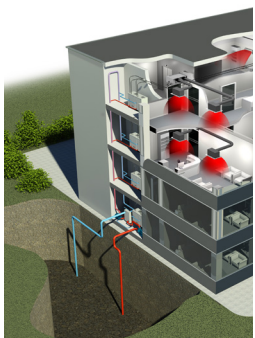
Conditions:

- › 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 corrosiveness:
- ✗ 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

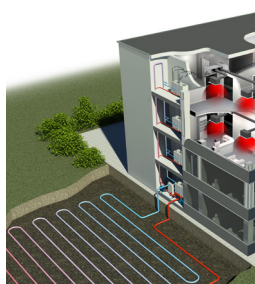


Vertical system conditions

- › Typical depth: 30-140 m. Below 15 m, the temperature of the ground is constant around 10°C

- ✓ Less surface space required
- ✓ Very constant ground temperature
- ✗ Expensive due to drilling cost

For smaller applications also horizontal loops can be used



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)

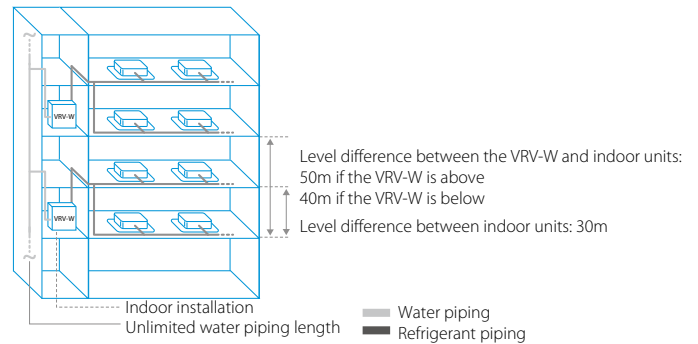
- ✓ Installation is easier and less expensive than vertical closed loops.
- ✗ Mainly for small applications as the property land should be large enough
- ✗ You cannot plant trees or build constructions over the land containing the loop.
- ✗ Glycol is needed to prevent freezing of the water.

VRV IV water cooled+ series

Ideal for high rise buildings, using water as heat source

- › Environmental conscious solution: reduced CO₂ emissions 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 flexibility
- › Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera floor or stylish, ...)
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7-segment display and full inverter compressors
- › 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 0,5m² 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



Already fully compliant
to LOT 21 - Tier 2

Published data with
real-life indoor units

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	•	•	•	•	•	
Perfera - Floor standing unit	CVXM-A/FVXM-A	•	•	•		•	•
Floor standing unit	FVXM-F		•	•		•	

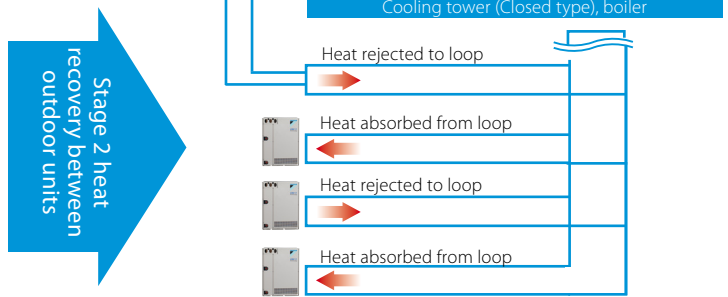
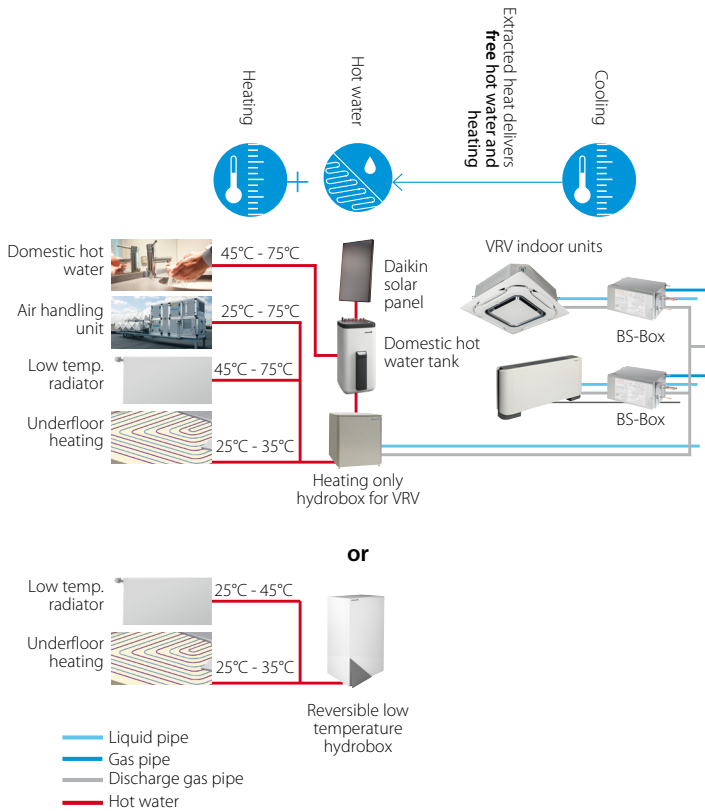
BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)



Access all technical information on RWEYQ-T9
at my.daikin.eu or click here

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 combination					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 connectable indoor units					64 (1)			
Indoor index connection		Min.			100.0	125.0	150.0	175.0
		Nom.					-	
		Max.			300.0	375.0	450.0	525.0
Dimensions	Unit	HeightxWidthxDepth		mm	980x767x560			
Weight	Unit			kg	195		197	
Sound power level	Cooling	Nom.		dB(A)	65.0	71.0	72.0	74.0
Sound pressure level	Cooling	Nom.		dB(A)	48.0	50.0	56.0	58.0
Operation range	Inlet water temperature	Cooling	Min.~Max.	°CDB	10~45			
		Heating	Min.~Max.	°CWB	10~45			
	Temperature around casing	Max.		°CDB	40			
	Humidity around casing	Cooling-Heating	Max.	%	80~80			
Refrigerant	Type/GWP				R-410A/2,087.5			
Piping connections	Charge			kg/TCO2Eq	7.9/16.5			9.6/20.0
	Liquid	OD		mm	9.52			12.7
	Gas	OD		mm	19.1 (2)	22.2 (2)	28.6 (2)	
	HP/LP gas	OD		mm	15.9 (3) / 19.1 (4)	19.1 (3) / 22.2 (4)	19.1 (3) / 28.6 (4)	22.2 (3) / 28.6 (4)
	Drain	Size			14mm OD/ 10mm ID			
	Water	Inlet/Outlet	Size		ISO 228-G1 1/4 B/ISO 228-G1 1/4 B			
	Total piping length	System	Actual	m	500			
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25		

Stage 1 heat recovery between indoor units



* Above system configuration are for illustration purpose only.

Outdoor unit System				RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9
System	Outdoor unit module 1				RWEYQ8T		RWEYQ10T		RWEYQ12T		RWEYQ14T
	Outdoor unit module 2				RWEYQ8T	RWEYQ10T		RWEYQ12T		RWEYQ14T	
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
	Max.	6°CWB	kW		50.0	56.5	62.5	69.0	75.0	82.5	90.0
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
Recommended combination					4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	8 x FXMQ63P7VEB	12 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB
Maximum number of connectable indoor units					64 (1)						
Indoor index connection	Min.				200.0	225.0	250.0	275.0	300.0	325.0	350.0
	Nom.							-			
	Max.				600.0	675.0	750.0	825.0	900.0	975.0	1,050.0
Piping connections	Liquid	OD	mm		12.7			15.9			19.1
	Gas	OD	mm		28.6 (2)				34.9 (2)		
	HP/LP gas	OD	mm		22.2 (3) / 28.6 (4)		28.6 (3) / 28.6 (4)	28.6 (3) / 28.6 (4)	28.6 (3) / 34.9 (4)		
	Total piping length		System	Actual	500						
	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Power supply	Current - 50Hz	Maximum fuse amps (MFA)		A	32		35	40	50		

Outdoor unit System				RWEYQ	30T9	32T9	34T9	36T9	38T9	40T9	42T9
System	Outdoor unit module 1				RWEYQ10T			RWEYQ12T			RWEYQ14T
	Outdoor unit module 2				RWEYQ10T		RWEYQ12T		RWEYQ14T		
	Outdoor unit module 3				RWEYQ10T	RWEYQ12T		RWEYQ14T			
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	100.5	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	
Recommended combination				12 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB	12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	18 x FXMQ50P7VEB	13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	3 x FXMQ50P7VEB + 15 x FXMQ63P7VEB	
ηs,c			%	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	8.7		8.5	
SCOP				11.9	11.6	11.4	11.2	10.7	10.3	10.0	
Maximum number of connectable indoor units				64 (1)							
Indoor index connection	Min.			375.0	400.0	425.0	450.0	475.0	500.0	525.0	
	Nom.			-							
	Max.			1,125.0	1,200.0	1,275.0	1,350.0	1,425.0	1,500.0	1,575.0	
Piping connections	Liquid	OD	mm	19.1 (2)							
	Gas	OD	mm	34.9			41.3				
	HP/LP gas	OD	mm	28.6 (3) / 34.9 (4)			41.3 (3) / 34.9 (4)				
	Total piping length	System	Actual	500							
	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415							
Power supply	Current - 50Hz	Maximum fuse amps (MFA)	A	50	63			80			

(1) 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%) | (2) In case of heat pump system, gas pipe is not used (3) In case of heat recovery system (4) In case of heat pump system



VRV Indoor units

One of the widest ranges on the market, it currently comprises no less than 26 different stylish and elegant models in 116 different variants. All designed to maximise comfort, minimise operating noise and simplify installation and servicing.

VRV IV

indoor units

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	Floor standing	
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Concealed floor
standing unit



Hot water production



Fully flat cassette

Products overview **VRV IV**

Capacity class (kW)

Type	Model		Product name	15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted 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	ROUND FLOW	FXFQ-B			●	●	●	●	●		●	●	●			
	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		●	●	●	●	●								
	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		FXXKQ-MA				●	●	●		●						
Concealed 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 developed for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor		FXDQ-A3		●	●	●	●	●	●		Auto cleaning filter option		Multi zoning option			
	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		●	●	●	●	●	●		●	●	●	●	Multi zoning option	
	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													●	●
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 developed 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		●	●	●	●	●	●							
Ceiling suspended	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								●		●				
Floor standing	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			●	●	●	●	●	●						
	Concealed floor standing unit 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 › Requires very little installation space as the depth is only 200mm › High ESP allows flexible installation		FXNQ-A			●	●	●	●	●	●						
Cooling capacity (kW) 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	22.4	28.0
Heating capacity (kW) ²				1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5

(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

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 **outdoor unit portfolio** for combination restrictions.

and VRV IV S-series outdoor units. Refer to the outdoor unit portfolio for combination restrictions.											Connectable outdoor unit						
Capacity class (kW)											RYYQ-U	RXYQ-U	RXYSCQ-TV1 ³	RXYSQ-TV9 ³	RXYSQ-TV9/TV1 ³	RWEYQ-T9 ⁴	RXYLQ-T
Type	Model	Product name	15	20	25	35	42	50	60	71							
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function ¹⁾)	 FCAG-B 				●		●	●					✓			
	Fully flat cassette	FFA-A9 			●	●		●	●					✓			
Concealed ceiling	Slim concealed ceiling unit	FDXM-F9 			●	●		●	●					✓			
	Concealed ceiling unit with inverter-driven fan	FBA-A(9) 				●		●	●			Auto cleaning filter option	✓				
Wall mounted	Daikin Emura Wall mounted unit	 FTXJ-MW/MS 		●	●	●		●					✓	✓	✓	✓	✓
	Stylish Wall mounted unit	FTXA-AW/BS/BB/BT 		●	●	●	●	●				✓	✓	✓	✓	✓	
	Perfera Wall mounted unit	CTXM-N FTXM-N 	●	●	●	●	●	●	●	●				✓			
Ceiling suspended	Ceiling suspended unit	FHA-A(9) 				●		●	●	●				✓			
Floor standing	Perfera Floor standing unit	CVXM-A FVXM-A 		●	●	●		●	●			✓	✓	✓	✓	✓	
	Floor standing unit	FVXM-F 			●	●		●				✓	✓	✓	✓	✓	
	Concealed floor standing unit	FNA-A9 			●	●		●	●					✓			

¹ Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E* or BRC1H* needed

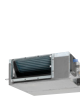
² To connect stylish indoor units a BPMKS unit is needed

³ A mix of RA indoor units and VRV indoor units is not allowed.

⁴ Only in heat pump operation

Benefits overview *VRV IV*

We care		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
		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
Comfort		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 neighbourhood
		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 control		Dry programme	Allows humidity levels to be reduced without variations in room temperature
Air flow		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
		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
Remote control & timer		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
		Wired remote control	Wired remote control to remotely control your indoor unit
		Centralised control	Centralised control to control several indoor units from one single point
		Multi zoning	Allows up to 6 individual climate zones with one indoor unit
Other functions		Auto-restart	The unit restarts automatically at the original settings after power failure
		Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies
		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

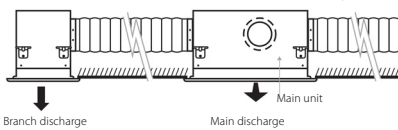
Ceiling mounted cassette units				Concealed ceiling units				Wall mounted unit	Ceiling suspended units		Floor standing units	
FXFQ-B	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXAQ-A	FXHQ-A	FXUQ-A	FXNQ-A	FXLQ-P
												
•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•
•				•								
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•	•	•		•	•		•					
•	•	•	•	•	•	•	•	•	•	•	•	•
G1* (G3* in case of auto cleaning panel)	G1*	•	G1*	•	G1*	•	G1* F8* (optional)	•	G1*	G1*	G1*	G1*
•	•	•	•	•	•	•	•	•	•	•	•	•
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Standard	Standard	Standard	Standard	Standard	Standard	Standard	Optional	Optional	Optional	Standard		
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* Filter grade category are an indication, filters are not certified.

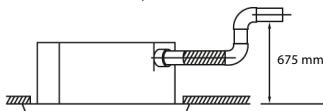
Round flow cassette

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 comfort
- › Widest choice ever in decoration panels: Designer, standard and autocleaning panels in white (RAL9010) and black (RAL9005)
- › 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



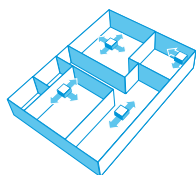
Access all technical information on FXFQ-B at my.daikin.eu or click here

Indoor unit				FXFQ	20B	25B	32B	40B	50B	63B	80B	100B	125B
Cooling capacity	Total capacity	Nom.		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	Nom.		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power input - 50Hz	Cooling	Nom.		kW	0.04				0.05	0.06	0.09	0.12	0.19
	Heating	Nom.		kW	0.04				0.05	0.06	0.09	0.11	0.18
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840						246x840x840		288x840x840
Weight	Unit			kg	19			20	21		24		26
Casing	Material				Galvanised steel plate								
Decoration panel	Model				Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black								
					Standard panels: 50x950x950 / Auto cleaning panels: 130x950x950 / Designer panels: 50x950x950								
	Dimensions	HeightxWidthxDepth	mm	Standard panels: 5.4 / Auto cleaning panels: 10.3 / Designer panels: 5.4									
	Weight			kg									
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	8.8/12.5			9.5/13.6	10.5/15.0	10.5/16.5	12.4/22.8	12.4/26.5	19.9/33.0
		Heating	Low/High	m³/min	8.8/12.5			9.5/13.6	10.5/15.0	10.5/16.5	12.4/22.8	12.4/26.5	19.9/33.0
Air filter	Type				Resin net								
Sound power level	Cooling	High		dBA	49			51	53	55	60	61	
Sound pressure level	Cooling	Low/Nom./High		dBA	28.0/29.0/31.0			29.0/31.0/33.0	30.0/33.0/35.0	30.0/34.0/38.0	30.0/37.0/43.0	36.0/41.0/45.0	
	Heating	Low/Nom./High		dBA	28.0/29.0/31.0			29.0/31.0/33.0	30.0/33.0/35.0	30.0/34.0/38.0	30.0/37.0/43.0	36.0/41.0/45.0	
Refrigerant	Type/GWP				R-410A/2,087.5								
Piping connections	Liquid	OD	mm		6.35					9.52			
	Gas	OD	mm		12.70					15.90			
	Drain				VP25 (O.D. 32 / I.D. 25)								
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current - 50Hz	Maximum fuse amps (MFA)			A	16								
Control systems	Infrared remote control				BRC7FA532F / BRC7FA532FB / BRC7FB532F / BRC7FB532FB								
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52								

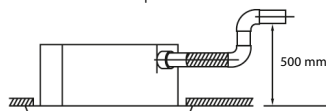
Fully flat cassette

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

- › 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 flap 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



Access all technical information on FXZQ-A at my.daikin.eu or click here

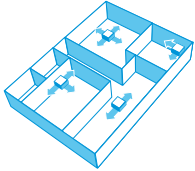
Indoor unit				FXZQ	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	Nom.	kW	1.70	2.20	2.80	3.60	4.50	5.60	
Heating capacity	Total capacity	Nom.	kW	1.90	2.50	3.20	4.00	5.00	6.30	
Power input - 50Hz	Cooling	Nom.	kW	0.043			0.045	0.059	0.092	
	Heating	Nom.	kW	0.036			0.038	0.053	0.086	
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575					
Weight	Unit			kg	15.5		16.5		18.5	
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYFQ60C2W1W					
	Colour				White (N9.5)					
	Dimensions	HeightxWidthxDepth	mm	46x620x620						
	Weight			kg	2.8					
Decoration panel 2	Model				BYFQ60C2W1S					
	Colour				SILVER					
	Dimensions	HeightxWidthxDepth	mm	46x620x620						
	Weight			kg	2.8					
Decoration panel 3	Model				BYFQ60B2W1					
	Colour				White (RAL9010)					
	Dimensions	HeightxWidthxDepth	mm	55x700x700						
	Weight			kg	2.7					
Decoration panel 4	Model				BYFQ60B3W1					
	Colour				WHITE (RAL9010)					
	Dimensions	HeightxWidthxDepth	mm	55x700x700						
	Weight			kg	2.7					
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.5/8.5	6.5/8.7	6.5/9.0	7.0/10.0	8.0/11.5	10.0/14.5
		Heating	Low/High	m³/min	6.5/8.5	6.5/8.7	6.5/9.0	7.0/10.0	8.0/11.5	10.0/14.5
Air filter	Type				Resin net					
Sound power level	Cooling	High		dBA	49		50	51	54	60
Sound pressure level	Cooling	Low/Nom./High		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
	Heating	Low/Nom./High		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-410A/2,087.5					
Piping connections	Liquid	OD	mm	6.35						
	Gas	OD	mm	12.7						
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control			BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)						
	Wired remote control			BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52						

Dimensions do not include control box

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!



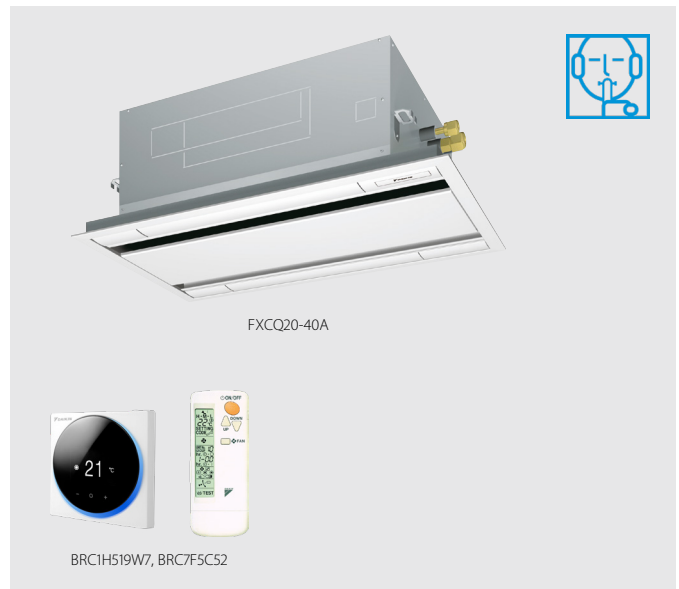
- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing

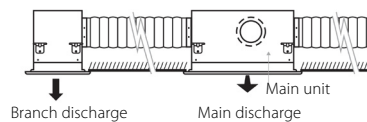


* Brings in up to 10% of fresh air into the room

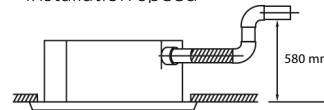
- › Optimum comfort guaranteed with automatic air flow adjustment to the required load
- › Maintenance operations can be performed by removing the front panel



- › 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



Access all technical information on FXCQ-A at my.daikin.eu or click here

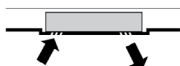
Indoor unit				FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Total capacity	Nom.		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Total capacity	Nom.		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power input - 50Hz	Cooling	Nom.		kW	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating	Nom.		kW	0.028	0.035		0.037	0.056	0.060	0.086	0.146
Dimensions	Unit	HeightxWidthxDepth		mm	305x775x620				305x990x620		305x1,445x620	
Weight	Unit			kg	19				22	25	33	38
Casing	Material			Galvanised steel plate								
Decoration panel	Model				BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1	
	Colour				Fresh white (6.5Y 9.5/0.5)							
	Dimensions	HeightxWidthxDepth	mm	55x1,070x700				55x1,285x700		55x1,740x700		
	Weight				kg	10				11		13
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	7.5/10.5	8/11.5		8.5/12	10.5/15	11.5/16	18.5/26	22.5/32
Air filter	Type	Resin net with mold resistance										
Sound power level	Cooling	Nom./High		dBA	46/48	47/50	48/50	49/52	51/53	53/55	54/58	58/62
Sound pressure level	Cooling	Low/Nom./High		dBA	28.0/30.0/32.0	29.0/31.0/34.0	30.0/32.0/34.0	31.0/33.0/36.0	31.0/35.0/37.0	32.0/37.0/39.0	33.0/38.0/42.0	38.0/42.0/46.0
	Heating	Low/Nom./High		dBA	28.0/30.0/32.0	29.0/31.0/34.0	30.0/32.0/34.0	31.0/33.0/36.0	31.0/35.0/37.0	32.0/37.0/39.0	33.0/38.0/42.0	38.0/42.0/46.0
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/Frequency/Voltage				Hz/V	1~/50/220-240						
Current - 50Hz	Maximum fuse amps (MFA)				A	16						
Control systems	Infrared remote control	BRC7C52										
	Wired remote control	BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52										

Ceiling mounted corner cassette

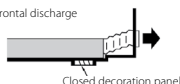
1-way blow unit for corner installation

- › 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

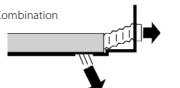
Downward discharge



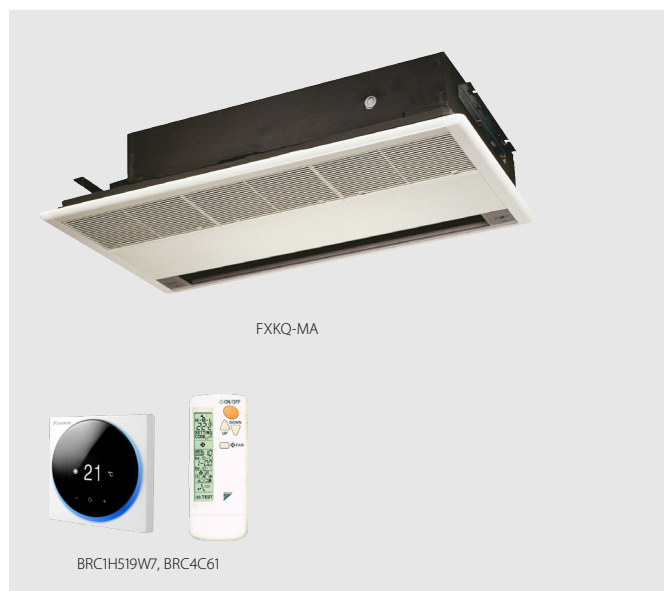
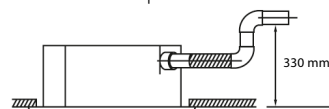
Frontal discharge



Combination



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



FXKQ-MA

BRC1H519W7, BRC4C61



Access all technical information on FXKQ-MA
at my.daikin.eu or click here

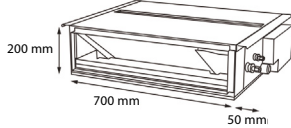
Indoor unit		FXKQ		25MA	32MA	40MA	63MA
Cooling capacity	Total capacity	Nom.	kW	2.8	3.6	4.5	7.10
	Heating capacity	Nom.	kW	3.2	4.0	5.0	8.00
Power input - 50Hz	Cooling	Nom.	kW	0.066		0.076	0.105
	Heating	Nom.	kW	0.046		0.056	0.085
Dimensions	Unit	HeightxWidthxDepth	mm	215x1,110x710			215x1,310x710
Weight	Unit		kg	31			34
Casing	Material			Galvanised steel plate			
Decoration panel	Model			BYK45FJW1			BYK71FJW1
	Colour			White			
	Dimensions	HeightxWidthxDepth	mm	70x1,240x800			70x1,440x800
	Weight		kg	8.5			9.5
Fan	Air flow rate - 50Hz	Cooling	Low/High	9/11		10/13	15/18
Air filter	Type			Resin net with mold resistance			
Sound power level	Cooling	High	dB(A)	54		56	58
Sound pressure level	Cooling	Low/High	dB(A)	33.0/38.0		34.0/40.0	37.0/42.0
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/Frequency/Voltage		Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)		A	15			
Control systems	Infrared remote control			BRC4C61			
	Wired remote control			BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52			

Slim concealed ceiling unit

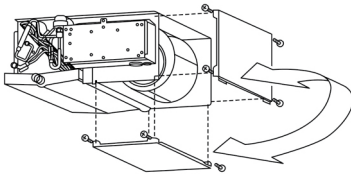
Slim design for flexible installation

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

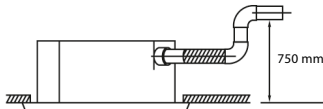
SERIE A (15, 20, 25, 32)



- › 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 750mm lift increases flexibility and installation speed



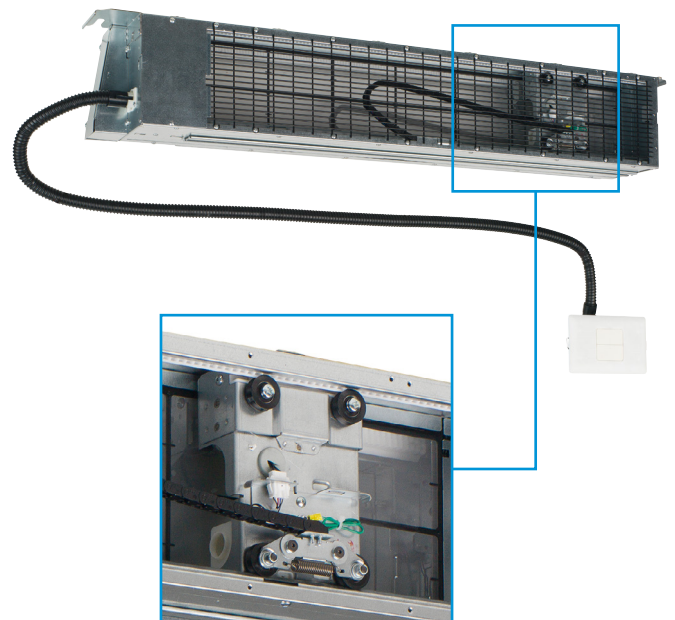
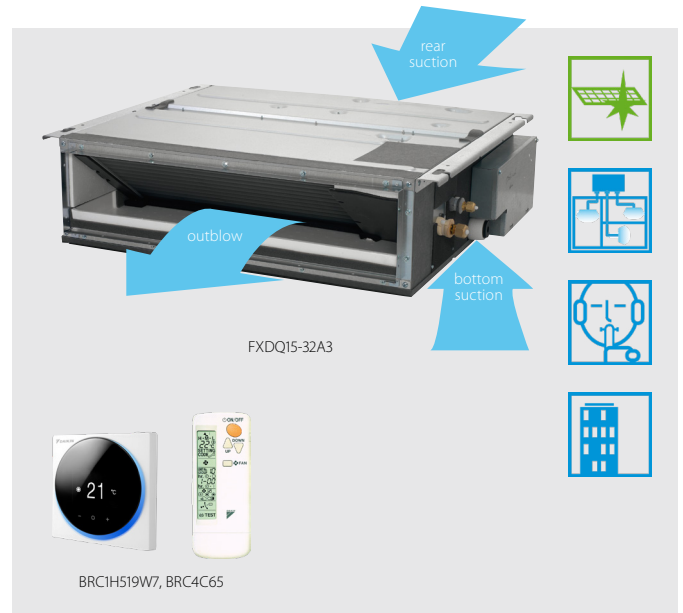
Access all technical information on FXDQ-A3 at my.daikin.eu or click here



Access all technical information on BAE20A at my.daikin.eu or click here



More information on multi zoning kit in the controls chapter



Auto cleaning filter option

Indoor unit				FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3
Cooling capacity	Total capacity	Nom.		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	Nom.		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	Nom.		kW	0.071				0.078	0.099	0.110
	Heating	Nom.		kW	0.068				0.075	0.096	0.107
Required ceiling void >				mm	240						
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620				200x950x620		200x1,150x620
Weight	Unit			kg	22.0				26.0		29.0
Casing	Material				Galvanised steel						
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.4/7.5	6.4/8.0			8.5/10.5	10.0/12.5	13.0/16.5
	External static pressure - 50Hz	Nom./High		Pa	10/30.0				15/44.0		
Air filter	Type				Removable / washable						
Sound power level	Cooling	High		dBA	50	51			52	53	54
Sound pressure level	Cooling	Low/Nom./High		dBA	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-410A/2,087.5						
Piping connections	Liquid	OD		mm	6.35						9.52
	Gas	OD		mm	12.7						15.9
	Drain				VP20 (I.D. 20/O.D. 26)						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						
Current - 50Hz	Maximum fuse amps (MFA)			A	16						
Control systems	Infrared remote control				BRC4C65 / BRC4C66						
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C/ BRC1D52						

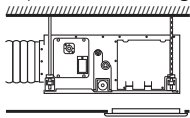
Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

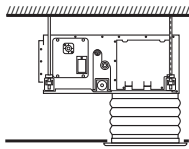
- › Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



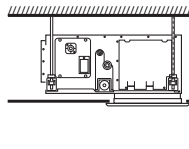
- › Quiet operation: down to 25dBA sound pressure level
- › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › Discretely concealed in the wall: only the 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
- › Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles



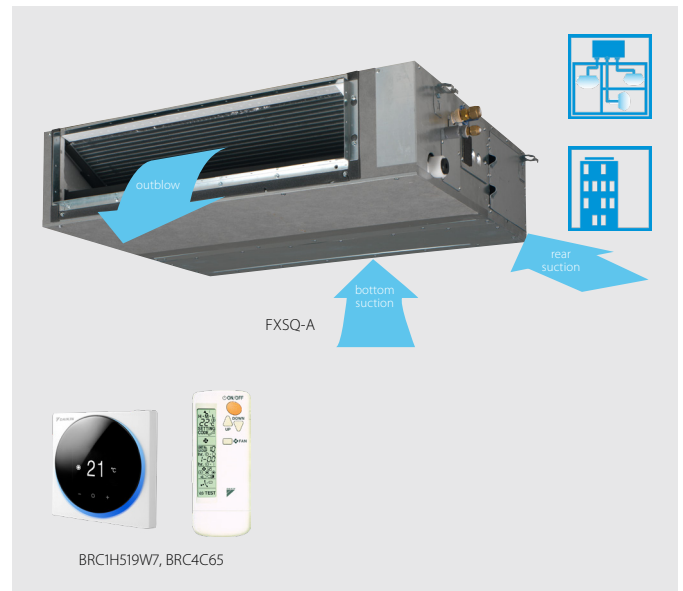
For free use into a false ceiling



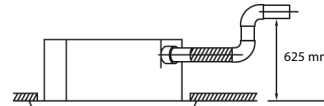
For connecting onto a suction canvas (not supplied by Daikin)



For direct connection to Daikin panel (via EKBYBSD kit)



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

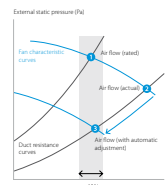


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

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



Access all technical information on FXSQ-A at my.daikin.eu or click here



More information on multi zoning kit in the controls chapter

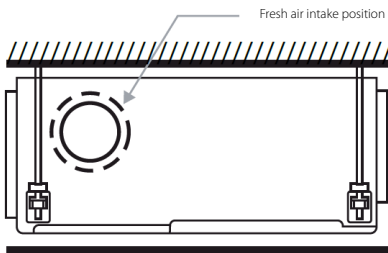
Indoor unit				FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	Nom.		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	Nom.		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50Hz	Cooling	Nom.		kW	0.090			0.096	0.151	0.154	0.188	0.213	0.290	0.331	0.386
	Heating	Nom.		kW	0.086			0.092	0.147	0.150	0.183	0.209	0.285	0.326	0.382
Dimensions	Unit	HeightxWidthxDepth		mm	245x550x800				245x700x800			245x1,000x800		245x1,400x800	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				Galvanised steel plate										
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.5/8.7	6.5/9.0		7.0/9.5	11.0/15.0	11.0/15.2	15.0/21.0	16.0/23.0	23.0/32.0	26.0/36.0	28.0/39.0
		Heating	Low/High	m³/min	6.5/8.7	6.5/9.0		7.0/9.5	11.0/15.0	11.0/15.2	15.0/21.0	16.0/23.0	23.0/32.0	26.0/36.0	28.0/39.0
	External static pressure - 50Hz	Nom./High		Pa	30/150							40/150		50/150	
Air filter	Type				Resin net										
Sound power level	Cooling	High		dBA	54			55	60		59	61		64	
Sound pressure level	Cooling	Low/Nom./High		dBA	25.0/28.0/29.5	25.0/28.0/30.0		26.0/29.0/31.0	29.0/32.0/35.0		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
	Heating	Low/Nom./High		dBA	26.0/29.0/31.5	26.0/29.0/32.0		27.0/30.0/33.0	29.0/34.0/37.0		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-410A/2,087.5										
Piping connections	Liquid	OD		mm	6.35							9.52			
	Gas	OD		mm	12.7							15.9			
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm										
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220										
Current - 50Hz	Maximum fuse amps (MFA)			A	16										
Control systems	Infrared remote control				BRC4C65										
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52										

Concealed ceiling unit with high ESP

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

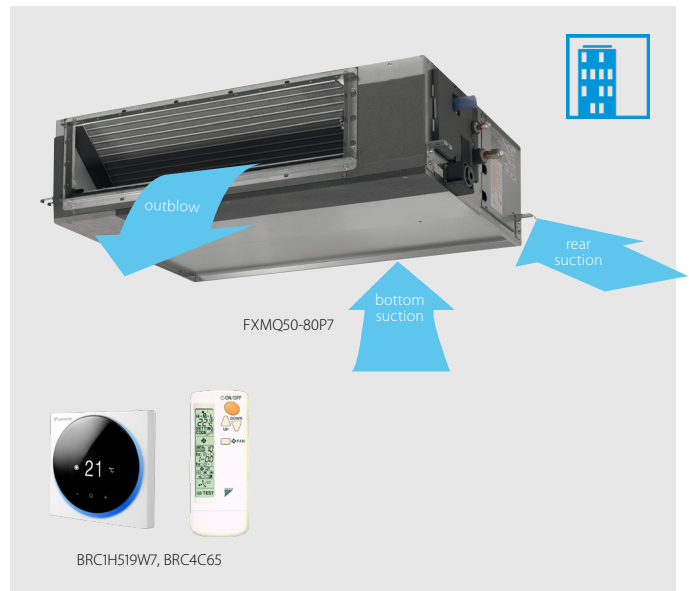
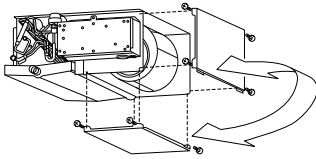
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › High external static pressure up to 200Pa facilitates extensive duct and grille network
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Fresh air intake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

Fresh air intake opening in casing

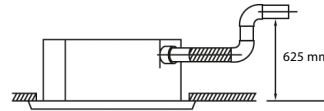


* Brings in up to 10% of fresh air into the room

- › 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



FXMQ-MB: ESP up to 270 Pa

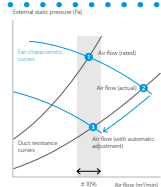
- › High external static pressure up to 270Pa facilitates extensive duct and grille network
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Large capacity unit: up to 31.5 kW heating capacity

Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

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.



Access all technical information on FXMQ-P7 at my.daikin.eu or click here



Access all technical information on FXMQ-MB at my.daikin.eu or click here

Indoor unit				FXMQ	50P7	63P7	80P7	100P7	125P7	200MB	250MB		
Cooling capacity	Total capacity	Nom.		kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0		
				kW				-					
Heating capacity	Total capacity	Nom.		kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5		
				kW				-					
Power input - 50Hz	Cooling	Nom.		kW	0.110	0.120	0.171	0.176	0.241	0.895	1.185		
	Heating	Nom.		kW	0.098	0.108	0.159	0.164	0.229	0.895	1.185		
Required ceiling void >				mm	350					-			
Dimensions	Unit	HeightxWidthxDepth		mm	300x1,000x700			300x1,400x700		470x1,380x1,100			
Weight	Unit			kg	35			46		132			
Casing	Material				Galvanised steel plate								
Decoration panel	Model				BYBS71DJW1			BYBS125DJW1		-			
	Colour				White (10Y9/0.5)							-	
	Dimensions	HeightxWidthxDepth		mm	55x1,100x500			55x1,500x500		-x-x-			
	Weight			kg	4.5			6.5		-			
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	15.0/18.0	16.0/19.5	20.0/25.0	23.0/32.0	28.0/39.0	50/58	62/72		
		Heating	Low/High	m³/min	15.0/18.0	16.0/19.5	20.0/25.0	23.0/32.0	28.0/39.0	-/-			
	External static pressure - 50Hz	Nom./High		Pa	100/200					160/270	170/270		
Air filter	Type				Resin net					-			
Sound power level	Cooling	Nom./High		dBA	-/61	-/64	-/67	-/65	-/70	75/76			
Sound pressure level	Cooling	Low/High		dBA	37/41	38/42	39/43		40/44	45/48			
	Heating	Low/High		dBA	37/41	38/42	39/43		40/44	-/-			
Refrigerant	Type/GWP				R-410A/-					R-410A/2,087.5			
Piping connections	Liquid	OD	mm	6.35	9.52								
	Gas	OD	mm	12.7	15.9					19.1	22.2		
	Drain				VP25 (I.D. 25/O.D. 32)					PS1B			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220						1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	16								
Control systems	Infrared remote control				BRC4C65								
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52								



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



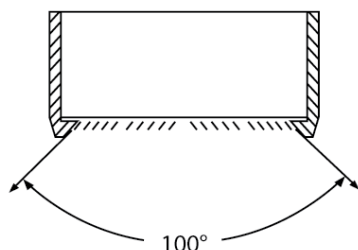
 Access all technical information on FXAQ-A at my.daikin.eu or click here

Indoor unit				FXAQ	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	Nom.		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Heating capacity	Total capacity	Nom.	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	Nom.		kW	0.02		0.03		0.02	0.03	0.05
	Heating	Nom.		kW	0.03			0.04	0.02	0.04	0.06
Dimensions	Unit	HeightxWidthxDepth		mm	290x795x266				290x1,050x269		
Weight	Unit			kg	12				15		
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	7.0/8.4	7.0/9.1	7.0/9.4	7.0/9.8	9.7/12.2	11.5/14.4	13.5/18.3
Air filter	Type				Washable resin net						
Sound power level	Cooling	High		dBA	51.0	52.0	53.0	55.0		58.0	63.0
Sound pressure level	Cooling	Low/High		dBA	28.5/32.0	28.5/33.0	28.5/35.0	28.5/37.5	33.5/37.0	35.5/41.0	38.5/46.5
	Heating	Low/High		dBA	28.5/33.0	28.5/34.0	28.5/36.0	28.5/38.5	33.5/38.0	35.5/42.0	38.5/47.0
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				VP13 (I.D. 15/O.D. 18)						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240						
Current - 50Hz	Maximum fuse amps (MFA)			A	16						
Control systems	Infrared remote control				BRC7EA628 / BRC7EA629						
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52						

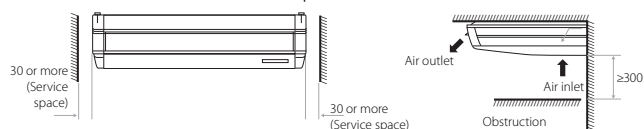
Ceiling suspended unit

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

- › Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- › 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



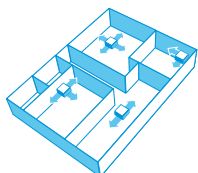
 Access all technical information on FXHQ-A at my.daikin.eu or click here

Indoor unit				FXHQ	32A	63A	100A
Cooling capacity	Total capacity	Nom.		kW	3.6	7.1	11.2
Heating capacity	Total capacity	Nom.		kW	4.0	8.0	12.5
Power input - 50Hz	Cooling	Nom.		kW	0.107	0.111	0.237
	Heating	Nom.		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	Low/High	m³/min	10.0/14.0	14.0/20.0	19.0/29.5
		Heating	Low/High	m³/min	10.0/14.0	14.0/20.0	19.0/29.5
Air filter	Type				Resin net with mold resistance		
Sound power level	Cooling	Nom./High		dBA	52/54	53/55	55/62
Sound pressure level	Cooling	Low/Nom./High		dBA	31.0/34.0/36.0	34.0/35.0/37.0	34.0/37.0/44.0
	Heating	Low/Nom./High		dBA	31.0/34.0/36.0	34.0/35.0/37.0	34.0/37.0/44.0
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				VP20 (I.D. 20/O.D. 26)		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	16		
Control systems	Infrared remote control				BRC7GA53-9		
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52		

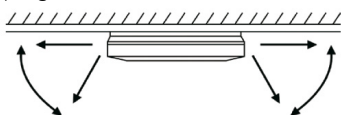
4-way blow ceiling suspended unit

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

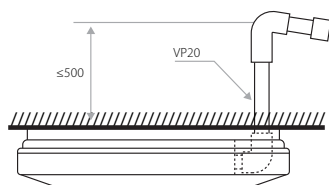
- › Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- › 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 500mm lift increases flexibility and installation speed



Access all technical information on FXUQ-A at my.daikin.eu or click here

Indoor unit				FXUQ	71A	100A
Cooling capacity	Total capacity	Nom.		kW	8.0	11.2
Heating capacity	Total capacity	Nom.		kW	9.0	12.5
Power input - 50Hz	Cooling	Nom.		kW	0.090	0.200
	Heating	Nom.		kW	0.073	0.179
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950	
Weight	Unit			kg	26	27
Casing	Material				Resin	
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	16.0/22.5	21.0/31.0
		Heating	Low/High	m³/min	16.0/22.5	21.0/31.0
Air filter	Type				Resin net with mold resistance	
Sound power level	Cooling	Nom./High		dBA	56/58	62/65
Sound pressure level	Cooling	Low/Nom./High		dBA	36.0/38.0/40.0	40.0/44.0/47.0
	Heating	Low/Nom./High		dBA	36.0/38.0/40.0	40.0/44.0/47.0
Refrigerant	Type/GWP				R-410A/2,087.5	
Piping connections	Liquid	OD		mm	9.52	
	Gas	OD		mm	15.9	
	Drain				I.D. 20/O.D. 26	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	
Control systems	Infrared remote control				BRC7C58	
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / 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



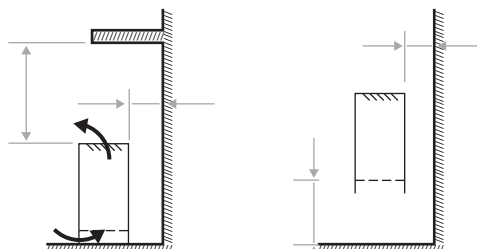
Access all technical information on FXNQ-A
at my.daikin.eu or click here

Indoor unit				FXNQ	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	Nom.		kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	Nom.		kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	Nom.		kW	0.071			0.078	0.099	0.110
	Heating	Nom.		kW	0.068			0.075	0.096	0.107
Dimensions	Unit	HeightxWidthxDepth		mm	620 / 720x790x200			620 / 720x990x200		620 / 720x1,190x200
Weight	Unit			kg	23.5			27.5		32.0
Casing	Material		Galvanised steel plate							
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.4/8.0			8.5/10.5	10.0/12.5	13.0/16.5
		Heating	Low/High	m³/min	6.4/8.0			8.5/10.5	10.0/12.5	13.0/16.5
	External static pressure - 50Hz		Nom./High	Pa	10/41.0		10/42.0	15/52.0	15/59.0	15/55.0
Air filter	Type		Resin net							
Sound power level	Cooling	High		dBA	51			52	53	54
Sound pressure level	Cooling	Low/Nom./High		dBA	27.0/28.5/30.0			28.0/30.0/32.0	29.0/31.0/33.0	32.0/33.0/35.0
	Heating	Low/Nom./High		dBA	27.0/28.5/30.0			28.0/30.0/32.0	29.0/31.0/33.0	32.0/33.0/35.0
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		VP20 (I.D. 20/O.D. 26)							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control			BRC4C65						
	Wired remote control			BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52						

Floor standing unit

For perimeter zone air conditioning

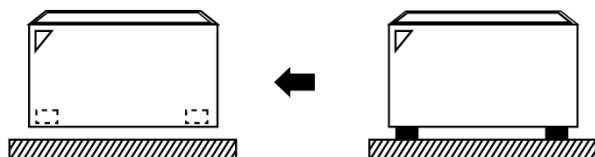
- › Unit can be installed as free standing model by use of optional back plate
- › Its low height enables the unit to fit perfectly beneath a window
- › Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7011) blends easily with any interior
- › Requires very little installation space



Floor standing

Wall mounted

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



- › Wired remote control can easily be integrated in the unit



FXLQ20,25P

BRC1H519W7, BRC4C65



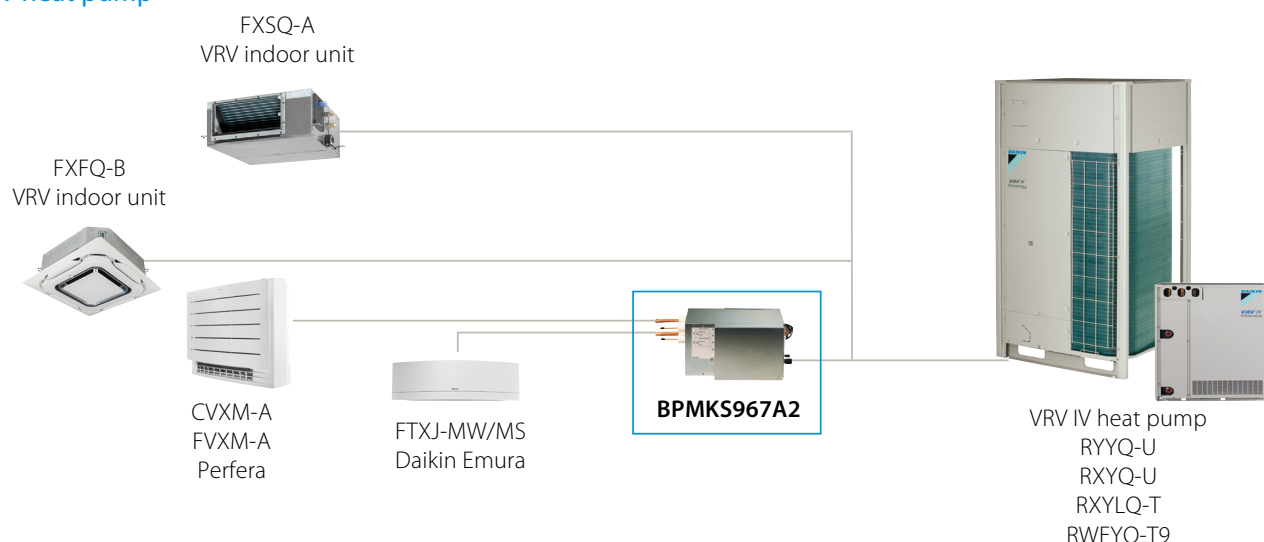
Access all technical information on FXLQ-P
at my.daikin.eu or click here

Indoor unit				FXLQ	20P	25P	32P	40P	50P	63P
Cooling capacity	Total capacity	Nom.		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	Nom.		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	Nom.		kW	0.05		0.09		0.11	
	Heating	Nom.		kW	0.05		0.09		0.11	
Dimensions	Unit	HeightxWidthxDepth		mm	600x1,000x232		600x1,140x232		600x1,420x232	
Weight	Unit			kg	27		32		38	
Fan	Air flow rate - 50Hz	Cooling	Low/High	m ³ /min	6.0/7		6.0/8	8.5/11	11.0/14	12.0/16
Air filter	Type				Resin net					
Sound power level	Cooling	High		dBA	54		57	58	59	
Sound pressure level	Cooling	Low/High		dBA	32/35		33/38	34/39	35/40	
	Heating	Low/High		dBA	32/35		33/38	34/39	35/40	
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				O.D. 21 (Vinyl chloride)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	15					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52					

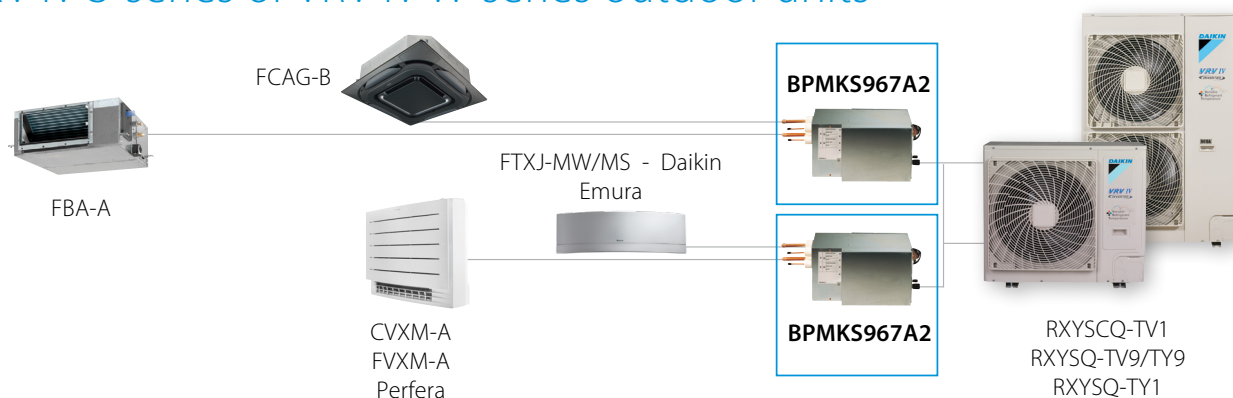
VRV heatpump combined with stylish indoor units

Combine VRV indoor units with stylish indoor units

on a VRV IV heat pump



Connect only stylish indoor units to VRV IV S-series or VRV IV W-series outdoor units



> * 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 units			1~2	1~3
Max. indoor unit connectable capacity			14.2	20.8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

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 **outdoor unit portfolio** for combination restrictions.

and VRV IV S-series outdoor units. Refer to the outdoor unit portfolio for combination restrictions.											Connectable outdoor unit					
Capacity class (kW)											RYYQ-U	RXYQ-U	RXYSCQ-TV1 ³ RXYSQ-TV9 ³ RXYSQ-TV9/TV1 ³	RWEYQ-T9 ⁴	RXYLQ-T	
Type	Model	Product name	15	20	25	35	42	50	60	71						
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function ¹⁾)	FCAG-B					●		●	●				✓		
	Fully flat cassette	FFA-A9					●	●		●	●			✓		
Concealed ceiling	Slim concealed ceiling unit	FDXM-F9					●	●		●	●			✓		
	Concealed ceiling unit with inverter-driven fan	FBA-A(9)						●		●	●		Auto cleaning filter option	✓		
Wall mounted	Daikin Emura Wall mounted unit	FTXJ-MW/MS			●	●	●		●					✓	✓	✓
	Stylish Wall mounted unit	FTXA-AW/BS/BB/BT			●	●	●	●	●				✓	✓	✓	✓
	Perfera Wall mounted unit	CTXM-N FTXM-N		●	●	●	●	●	●	●	●			✓		
Ceiling suspended	Ceiling suspended unit	FHA-A(9)					●		●	●	●			✓		
Floor standing	Perfera Floor standing unit	CVXM-A FVXM-A			●	●	●		●	●			✓	✓	✓	✓
	Floor standing unit	FVXM-F				●	●		●				✓	✓	✓	✓
	Concealed floor standing unit	FNA-A9				●	●		●	●				✓		

¹ Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E* or BRC1H* needed

² To connect stylish indoor units a BPMKS unit is needed

³ A mix of RA indoor units and VRV indoor units is not allowed.

⁴ Only in heat pump operation

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!

STANDARD INCLUDED



Indoor unit				FTXJ	20MW	20MS	25MW	25MS	35MW	35MS	50MW	50MS
Dimensions	Unit	HeightxWidthxDepth		mm	303x998x212							
Weight	Unit			kg	12.0							
Air filter	Type				Removable / 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		4.1/6.9/9.6 /12.4		5.0/8.1/10.5 /12.6	
Sound power level	Cooling			dBA	54				59		60	
	Heating			dBA	56				59		60	
Sound pressure level	Cooling	Silent operation/Low/High		dBA	19/25/38				20/26/45		32/35/46	
	Heating	Silent operation/Low/High		dBA	19/28/40		19/28/41		20/29/45		32/35/47	
Control systems	Infrared remote control				ARC466A9							
	Wired remote control				-							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240							

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
- › 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.

STANDARD INCLUDED

GOOD
DESIGNDESIGN
AWARD
2018reddot award 2018
winner

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	12					
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 level	Cooling	Silent operation/Low/High		dBA	19/25/39		19/25/40	19/25/41	21/29/45	24/31/46
	Heating	Silent operation/Low/High		dBA	19/25/39		19/25/40	19/25/41	21/29/45	24/31/46 24/33/46
Control systems	Infrared remote control				ARC466A58					
	Wired remote control				BRC073					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240					

Floor standing unit with radiant heat panel

Stylish floor standing unit with radiant heat panel for comfortable heat and very low noise

- › The aluminium part of the front panel of the Nexura indoor unit has the capability of warming up, just like a traditional radiator, to add even more comfort on cold days
- › Quiet and discrete, Nexura offers you the best in heating and cooling, in comfort and design
- › The indoor unit distributes air at the sound of a whisper. The noise produced amounts to barely 22dB(A) in cooling and 19dB(A) in radiant heat mode. In comparison, the ambient sound in a quiet room amounts to 40dB(A) on average.
- › Comfortable vertical auto swing ensures draught-free operation and prevents ceiling soiling
- › Online controller (optional): control your indoor from any location with an app, via your local network or internet
- › Can be installed against a wall or recessed
- › Its low height enables the unit to fit perfectly beneath a window



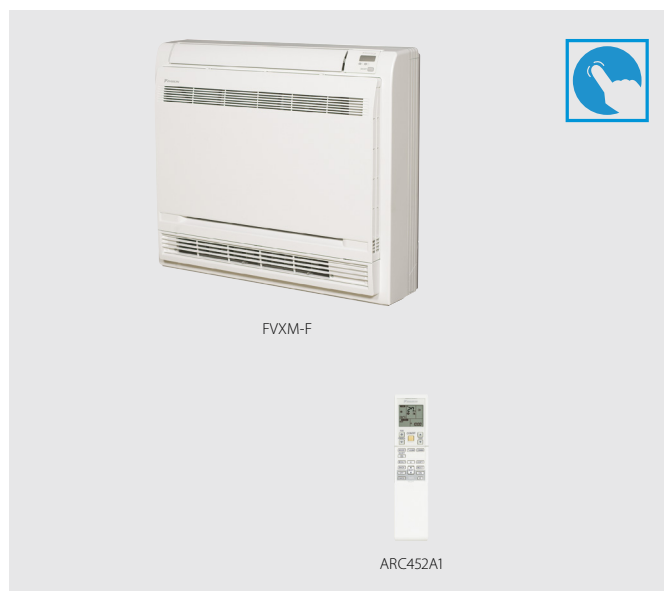
Indoor unit			FVXG	25K	35K	50K
Dimensions	Unit	HeightxWidthxDepth	mm	600x950x215		
Weight	Unit		kg	22		
Air filter	Type			Removable / washable / mildew proof		
Fan - Air flow rate	Cooling	High/Low/Silent operation	m³/min	8.9/5.3/4.5	9.1/5.3/4.5	10.6/7.3/6.0
	Heating	High/Low/Silent operation	m³/min	9.9/5.7/4.7	10.2/5.8/5.0	12.2/7.8/6.8
Sound power level	Cooling		dBA	52	58	
	Heating		dBA	53	60	
Sound pressure level	Cooling	High/Low/Silent operation	dBA	38/26/23	39/27/24	44/36/32
	Heating	High/Low/Silent operation/Radiant heat	dBA	39/26/22/19	40/27/23/19	46/34/30/26
Control systems	Infrared remote control			ARC466A2		
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240		

(3) Operation range in combination with Nexura, FVXG-K, cooling: min. 10°CDB - max. 46°CDB; heating: min. -15°CWB - max. 18°CWB

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	HeightxWidthxDepth		mm	600x700x210		
Weight	Unit			kg	14		
Air filter	Type				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	52		57
	Heating			dBA	52		58
Sound pressure level	Cooling	Silent operation/Low/High		dBA	23/26/38	24/27/39	32/36/44
	Heating	Silent operation/Low/High		dBA	23/26/38	24/27/39	32/36/45
Control systems	Infrared remote control				ARC452A1		
	Wired remote control				-		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-230-240		



Hot water

Efficient hot water production for underfloor heating, radiators and air handling units, or for producing hot water for sinks, baths and showers. Integrating heat recovery into the VRV system means that the production of hot water is virtually free.

Hot water

Hot water 135

Low temperature hydrobox

HXY-A8 136

High temperature hydrobox

HXHD-A8 137

Accessories for hot water 138

Hydrobox range

Capacity class (kW)

Type	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

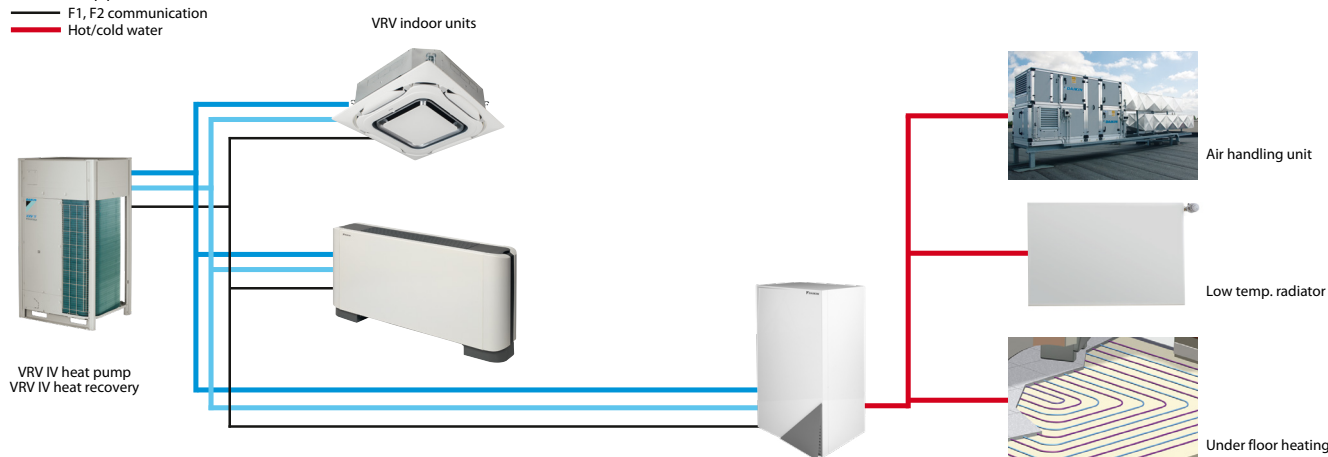
For high efficiency space heating and cooling

- › 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



HXY-A8

- Liquid pipe
- Gas pipe
- F1, F2 communication
- Hot/cold water



Access all technical information on HXY-A8
at my.daikin.eu or [click here](#)

Indoor 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			890 x 480 x 344	
Weight	Unit	kg			44	
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	Type	R-410A				
	GWP	2,087.5				
Refrigerant circuit	Gas side diameter			mm	15.9	
	Liquid side diameter			mm	9.5	
Water circuit	Piping connections diameter			inch	G 1"1/4 (female)	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	
Current	Recommended fuses			A	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)

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



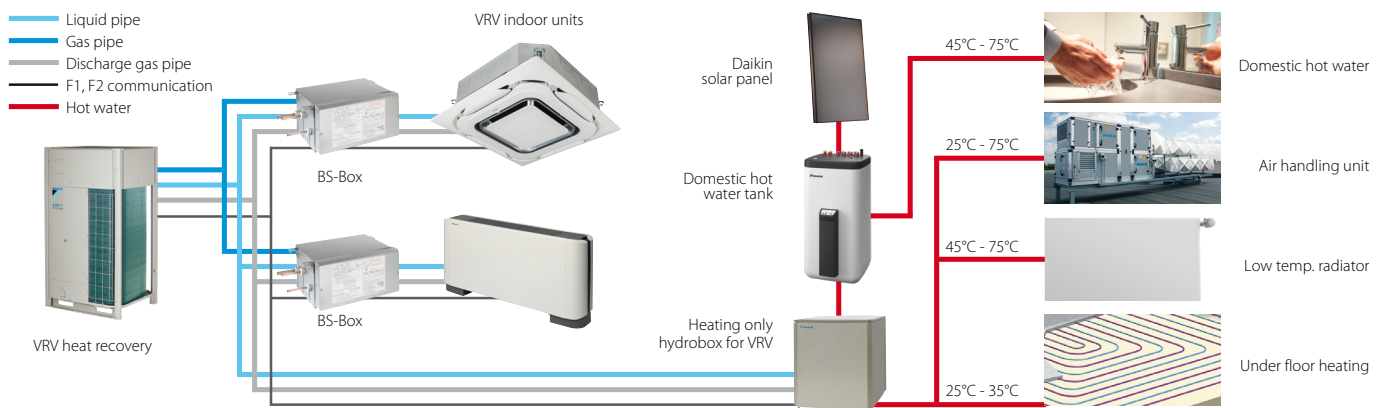
HXHD-A8



EKHWP-B



EKHWP-B



Access all technical information on HXHD-A8
at my.daikin.eu or click here

Indoor Unit				HXHD	125A		200A	
Heating capacity	Nom.			kW	14.0		22.4	
Dimensions	Unit	Height x Width x Depth			mm	705 x 600 x 695		
Weight	Unit			kg	92.0		147	
Casing	Colour				Metallic grey Precoated sheet metal			
	Material							
Sound power level	Nom.			dBA	55.0 (2)		60.0 (2)	
Sound pressure level	Nom.			dBA	42.0 (2) / 43.0 (3)		46.0 (2) / 46.0	
	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 hot water	Ambient	Min. ~ Max.	°CDB	-20.0 ~ 43.0			
		Water side	Min. ~ Max.	°C	45 ~ 75			
Refrigerant	Type				R-134a			
	GWP				1,430			
	Charge			kg	2.00		2.60	
Water circuit	Piping connections diameter			inch	G 1" (female)			
	Heating water system	Water volume	Max. ~ Min.	l	200 ~ 20		400 ~ 20	
Power supply	Phase / Frequency / Voltage			Hz / V	1 ~ / 50 / 220-240		3 ~ / 50 / 380-415	
Current	Recommended fuses			A	20		16	

(1) Field setting | (2) Sound levels are measured at: EW 55°C; LW 65°C | (3) Sound levels are measured at: EW 70°C; LW 80°C

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)



Accessory		EKHWP	300B	500B
Casing	Colour		Traffic white (RAL9016) / Dark grey (RAL7011)	
	Material		Impact resistant polypropylene	
Dimensions	Unit	Height	1,650	1,660
		Width	595	790
		Depth	615	790
Weight	Unit	Empty	58	82
		Water volume	294	477
Tank	Material		Polypropylen	
	Maximum water temperature		85	
	Insulation	Heat loss kWh/24h	1.5	1.7
	Energy efficiency class		B	
	Standing heat loss		64	72
	Storage volume		294	477
	Heat exchanger Domestic hot water	Quantity	1	
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	5.600	5.800
		Internal coil volume	27.1	28.1
		Operating pressure	6	6
	Charging	Average specific thermal output	2,790	2,825
		Quantity	1	
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	3	4
		Internal coil volume	13	18
Auxiliary solar heating	Operating pressure	bar	3	3
		Average specific thermal output	1,300	1,800
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	-	1
		Internal coil volume	-	4
	Operating pressure	bar	-	3
		Average specific thermal output	-	280

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)



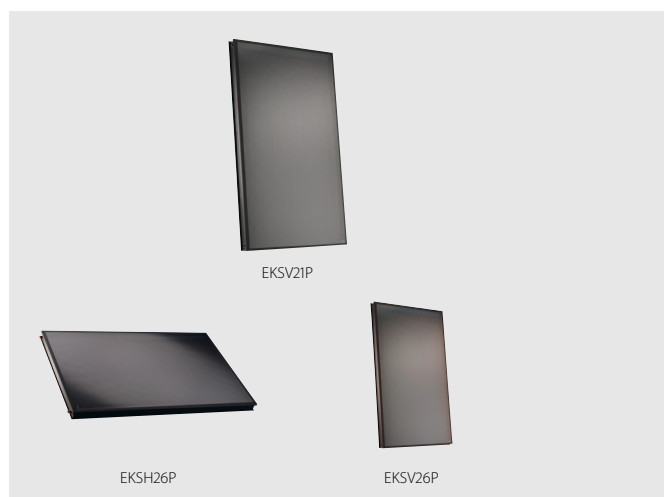
Accessory		EKHWP	300PB	500PB
Casing	Colour		Traffic white (RAL9016) / Dark grey (RAL7011)	
	Material		Impact resistant polypropylene	
Dimensions	Unit	Height	1,650	1,660
		Width	595	790
		Depth	615	790
Weight	Unit	Empty	58	89
		Water volume	294	477
Tank	Material		Polypropylen	
	Maximum water temperature		85	
	Insulation	Heat loss kWh/24h	1.5	1.7
	Energy efficiency class		B	
	Standing heat loss		64	72
	Storage volume		294	477
	Heat exchanger Domestic hot water	Quantity	1	
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	5.600	5.900
		Internal coil volume	27.1	28.1
		Operating pressure	6	6
	Charging	Average specific thermal output	2,790	2,825
		Quantity	1	
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	3	4
		Internal coil volume	13	18
Auxiliary solar heating	Operating pressure	bar	3	3
		Average specific thermal output	1,300	1,800
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	-	1
		Internal coil volume	-	4
	Operating pressure	bar	-	3
		Average specific thermal output	-	280

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



Accessory				EKSV/EKSH	21P	26P		
Mounting					Vertical		Horizontal	
Dimensions		Unit	HeightxWidthxDepth	mm	1,006x85x2,000		2,000x85x1,300	
Weight		Unit		kg	33		42	
Volume				l	1.3		1.7	
Surface		Outer		m²	2.01		2.60	
		Aperture		m²	1.800		2.360	
		Absorber		m²	1.79		2.35	
Coating					Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)			
Absorber					Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate			
Glazing					Single pane safety glass, transmission +/- 92%			
Allowed roof angle		Min.~Max.		°	15~80			
Operating pressure		Max.		bar	6			
Stand still temperature		Max.		°C	192			
Thermal performance		collector efficiency (ηcol)			61			
		Zero loss collector efficiency η0			0.781		0.784	
		Heat loss coefficient a1			4.240		4.250	
		Temperature dependence of the heat loss coefficient a2			0.006		0.007	
		Thermal capacity			4.9		6.5	
Auxiliary		Solpump			-			
		Solstandby			-			
		Annual auxiliary electricity consumption Qaux			-			

EKS2A/EKSR4A

Pump station

- › Save energy and reduce CO₂ 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/EKSRDS2A	EKSRPS4A	EKSRDS2A
Mounting					On side of tank	On wall
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230		410x314x154
Weight	Unit		kg	6.4		6
Operation range	Ambient temperature	Min.~Max.	°C	5~40		0~40
Operating pressure	Max.		bar	-		6
Stand still temperature	Max.		°C	85		120
Thermal performance	collector efficiency (η _{col})			%	-	
	Zero loss collector efficiency η ₀			%	-	
Control	Type	Digital temperature difference controller with plain text display				
	Power consumption		W	2	5	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230		/50/230
Sensor	Solar panel temperature sensor			Pt1000		
	Storage tank sensor			PTC		
	Return flow sensor			PTC		
	Feed temperature and flow sensor			Voltage signal (3.5V DC)		
Power supply intake				Indoor unit		
Auxiliary	Solpump		W	37.3		23
	Solstandby		W	2.00		5.00
	Annual auxiliary electricity consumption Q _{aux}		kWh	92.1		89



Daikin offers the widest range in DX ventilation in the market. With a variety of ventilation solutions from small heat recovery ventilation to large scale air handling units we help provide a fresh, healthy and comfortable environment in offices, hotels, stores and other commercial environments.

Ventilation

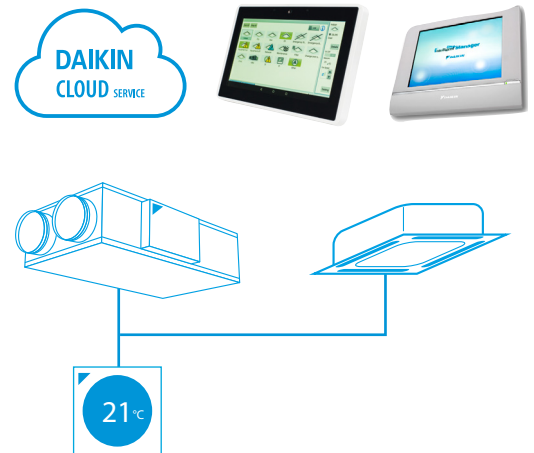


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5 reasons Daikin's ventilation range is unique in the market

1 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



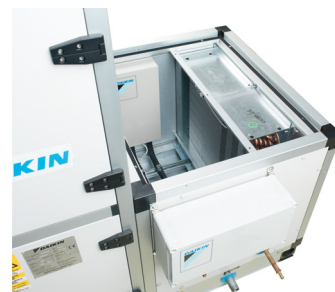
Madoka



reddot award 2018
winner

2 Unique installation benefits

- › 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

Up to
92%
energy
recovery

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 ePM₁ 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?

CO₂ 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

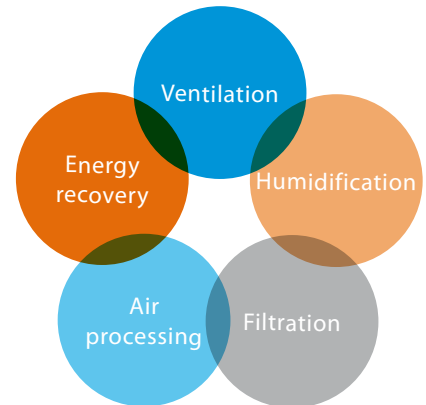
Our energy recovery units **recover sensible energy** (Modular L Pro / Modular L Smart) or **total (sensible + latent) energy** (VAM/VKM), substantially reducing the load on the air conditioning system up to 40%.

Ventilation with DX connection - Control over fresh air temperature

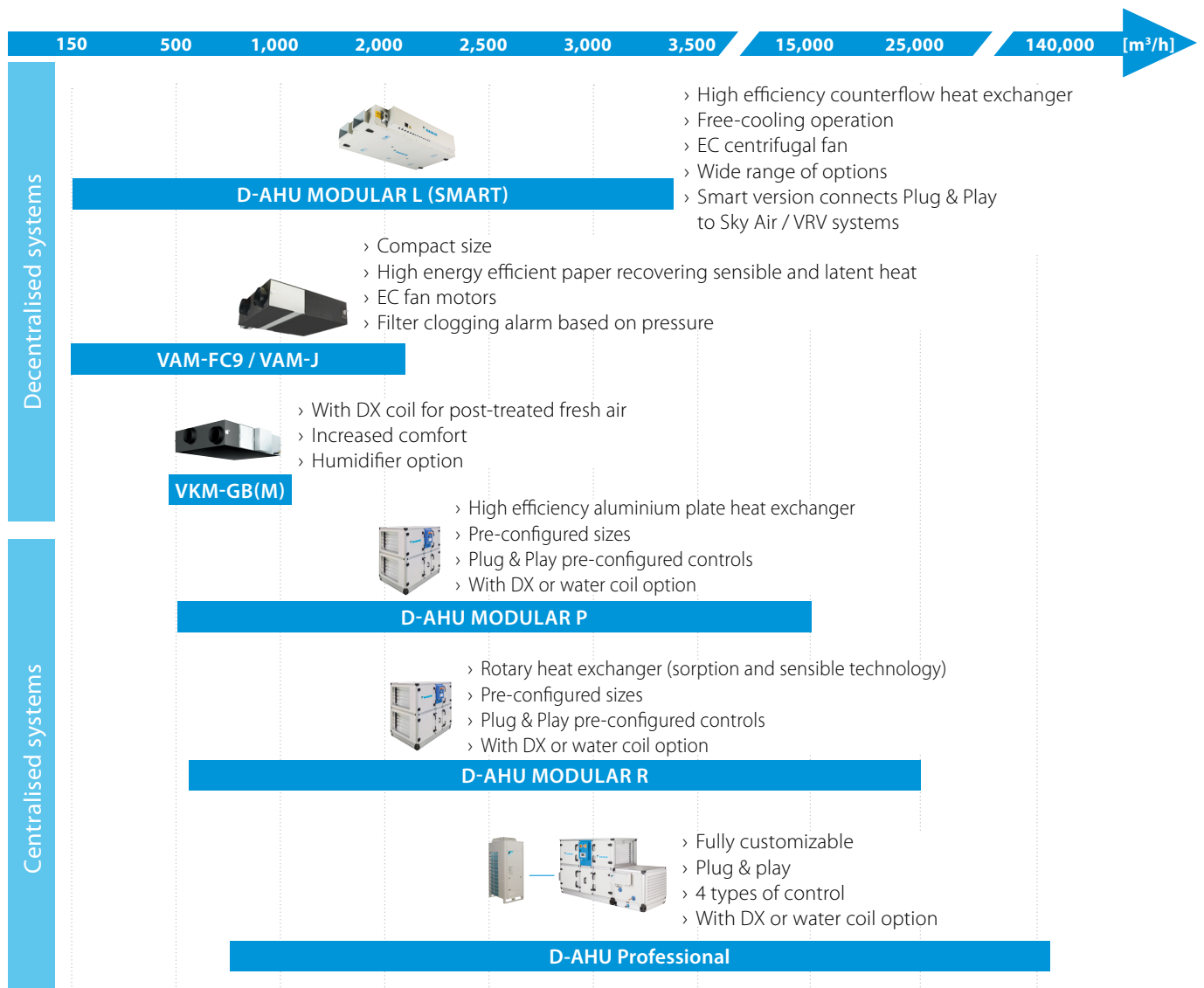
Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be 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 ePM1 50% (F7) + ePM1 80% (F9)) making the unit reach highest indoor air quality requirements.
- › Wide air flow coverage from 150m³/h to 3,450m³/h
- › Exceeding ErP 2018 requirements
- › Best choice when compactness is needed (only 280 mm height up to 550 m³/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 airflow)
- › 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 93% of the thermal energy recovered
- › High grade aluminum allowing optimum corrosion protection

Technical details

D-AHU Modular L Smart		ALB-RBS/LBS	02	03	04	05	06	07
Airflow		m ³ /h	300	600	1200	1500	2300	3000
Heat exchanger thermal efficiency ¹		%	90	91	90	90	92	91
External static pressure	Nom.	Pa	100	100	100	100	100	100
Temperature after heat exchanger ¹	Nom.	°C	19,4	19,5	19,4	19,2	19,8	19,5
Max ESP @ nom. airflow		Pa	400	450	260	270	250	210
Current	Nom.	A	0,52	1,17	1,91	2,48	3,76	5,39
Power input	Nom.	kW	0,12	0,27	0,44	0,57	0,87	1,24
SFPv ²		kW/m ³ /s	1,24	1,49	1,28	1,32	1,32	1,46
ERP compliant			ErP 2018 Compliant					
Electrical supply	Phase	ph	1	1	1	1	1	1
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
	Voltage	V	220/240 Vac	220/240 Vac	220/240 Vac	220/240 Vac	220/240 Vac	220/240 Vac
Main unit dimensions	Width	mm	920	1100	1600	1600	2000	2000
	Height	mm	280	350	415	415	500	500
	Length	mm	1660	1800	2000	2000	2000	2000
Rectangular duct flange	Width	mm	250	400	500	500	700	700
	Height	mm	150	200	300	300	400	400
Unit Sound Power Level (Lwa)		dB	48	54	57	53	60	57
Unit Sound Pressure Level ³		dBA	34	39	41	37	44	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. According to EN3744. Surrounding, Directivity (Q) = 2, @ 1,5m distance



Right drain connection (ALB-RBS)



Left drain connection (ALB-LBS)

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

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

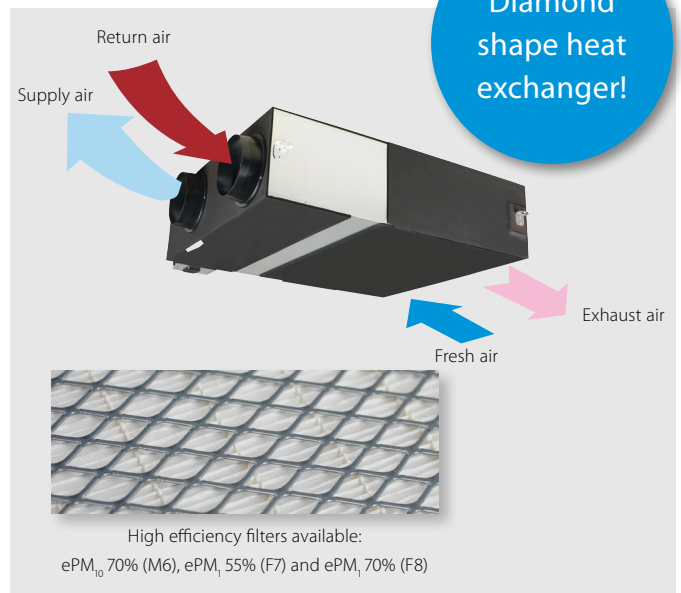


Electrical heater for Modular L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB
Capacity kW	1,5	3	7,5	15
Connectable Modular L Smart size	02	03	04, 05	06, 07
Supply voltage	230V,1ph		400V,3ph	
Output current (maximum) (A)	6,6	13,1	10,9	21,7
Temperature sensor	15k ohms at -20 °C 10k ohms at +10 °C	16k ohms at -20 °C 10k ohms at +10 °C	17k ohms at -20 °C 10k ohms at +10 °C	18k ohms at -20 °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 CO₂ 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 m³/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



Ventilation			VAM/VAM	150FC9	250FC9	350J	500J	650J	800J	1000J	1500J	2000J		
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.097/0.070/0.039	0.164/0.113/0.054	0.247/0.173/0.081	0.303/0.212/0.103	0.416/0.307/0.137	0.548/0.384/0.191	0.833/0.614/0.273	
	Bypass mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.085/0.061/0.031	0.148/0.100/0.045	0.195/0.131/0.059	0.289/0.194/0.086	0.417/0.300/0.119	0.525/0.350/0.156	0.835/0.600/0.239	
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	77.0(1)/72.0(2)/78.3(1)/72.3(2)/82.8(1)/73.2(2)	74.9(1)/69.5(2)/76.0(1)/70.0(2)/80.1(1)/72.0(2)	85.1/86.7/90.1	80.0/82.5/87.6	84.3/86.4/90.5	82.5/84.2/87.7	79.6/81.8/86.1	83.2/84.8/88.1	79.6/81.8/86.1	
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low			%	60.3(1)/61.9(1)/67.3(1)	60.3(1)/61.2(1)/64.5(1)	65.2/67.9/74.6	59.2/61.8/69.5	59.2/63.8/73.1	67.7/70.7/76.8	62.6/66.4/74.0	68.9/71.8/77.5	62.6/66.4/74.0
	Heating	Ultra high/High/Low			%	66.6(1)/67.9(1)/72.4(1)	66.6(1)/67.4(1)/70.7(1)	75.5/77.6/82.0	69.0/72.2/78.7	73.1/76.3/82.7	72.8/75.3/80.2	68.6/71.7/77.9	73.8/76.1/80.8	68.6/71.7/77.9
Operation mode					Heat exchange mode, bypass mode, fresh-up mode									
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange									
Heat exchange element					Specially processed non-flammable paper									
Dimensions	Unit	HeightxWidthxDepth			mm	285x776x525		301x1,113x886		368x1,354x920		368x1,354x1,172		731x1,354x1,172
Weight	Unit				kg	24.0		46.5		61.5		79.0		157
Casing	Material				Galvanised steel plate									
Fan	Air flow rate - 50Hz	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)	
		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	90/87/40	70/63/25	90(1)/70.0/50.0(1)						
Air filter	Type				Multidirectional fibrous fleeces		Multidirectional 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 unit				°CDB	-		0°C~40°CDB, 80% RH or less						
Connection duct diameter					mm	100	150	200		250			2x250	
Power supply	Phase/Frequency/Voltage				Hz/V	1~；50/60；220-240/220								
Current	Maximum fuse amps (MFA)				A	15.0		16.0						
Specific energy consumption (SEC)	Cold climate				kWh/(m².a)	-56.0(5)	-60.5(5)	-						
	Average climate				kWh/(m².a)	-22.1(5)	-27.0(5)	-						
	Warm climate				kWh/(m².a)	-0.100(5)	-5.30(5)	-						
SEC class					D / See note 5		B / See note 5		-					
Maximum flow rate at 100 Pa ESP	Flow rate				m³/h	130	207	-						
	Electric power input				W	129	160	-						
Sound power level (Lwa)					dB	40	43	51	54	58	61	62	65	
Annual electricity consumption					kWh/a	18.9(5)	13.6(5)	-						
Annual heating saved	Cold climate				kWh/a	41.0(5)	40.6(5)	-						
	Average climate				kWh/a	80.2(5)	79.4(5)	-						
	Warm climate				kWh/a	18.5(5)	18.4(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

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



GSIEKA		10009	15018	20024	25030	35530 ⁽¹⁾
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
Dimensions	Height	mm	171	221	271	321	426
	Depth	mm	100	150	200	250	355
	Width	mm	370	370	370	370	373
Minimum air velocity / airflow		m/s	1.5				
		m³/h	45	100	170	265	535
Power supply			1~230 VAC/50Hz				
Nominal current	A		4.1	8.2	10.9	13.1	13.1
Heating power	kW		0.9	1.8	2.4	3.0	3.0
Connection duct diameter	mm		100	150	200	250	355
Operation range	Min.	°C	-40°C				
	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			- 10°C to 50°C				
LED indicators	LED 1	flashing every 5 seconds	heater is starting up				
		flashing every second	air flow detected, heating allowed				
		OFF	no power supply or no flow				
		ON	problem with duct temperature sensor, set point potentiometer or PTC airflow sensor				
	LED 2	OFF	heater is not operation				
		ON	heater is operating				
Ambient temperature adjacent to controller			0°C to +50°C				
Auto high temperature cut-out			50°C				
Manual 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 CO₂ 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



Ventilation			VKM-GB/VKM-GBM		50GB	80GB	100GB	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 conditioning load	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
	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/Low			%	76/76/77.5	78/78/79	74/74/76.5	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange efficiency - 50Hz	Cooling		Ultra high/High/Low	%	64/64/67	66/66/68	62/62/66	64/64/67	66/66/68	62/62/66
	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 exchange mode / Bypass mode / Fresh-up mode					
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange					
Heat exchange element					Specially processed non-flammable paper					
Humidifier					Natural evaporating type					
Dimensions					Galvanised steel plate					
Weight					Multidirectional fibrous fleeces					
Casing					0°C~40°CDB, 80% RH or less					
Fan-Air flow rate - 50Hz					-15°C~40°CDB, 80% RH or less					
Fan-External static pressure - 50Hz					0°C~40°CDB, 80% RH or less					
Air filter					-15/43					
Sound pressure level - 50Hz					Electronic expansion valve					
Operation range					R-410A					
Refrigerant					2,087.5					
Connection duct diameter					200					
Piping connections					250					
					6.35					
					12.7					
					6.4					
					PT3/4 external thread					
					1~50/220-240					
					15					

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 unmatched 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

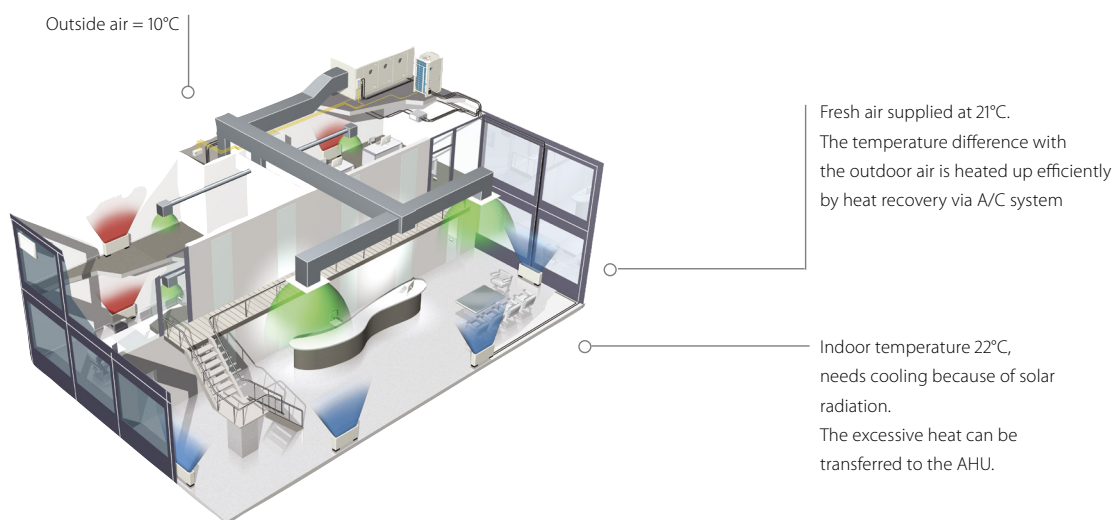
- › Unique manufacturer offering a complete range
- › Plug & Play solution
- › Direct iTM compatibility

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 heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought

inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold fresh air.



Fast response to changing loads resulting in high comfort levels

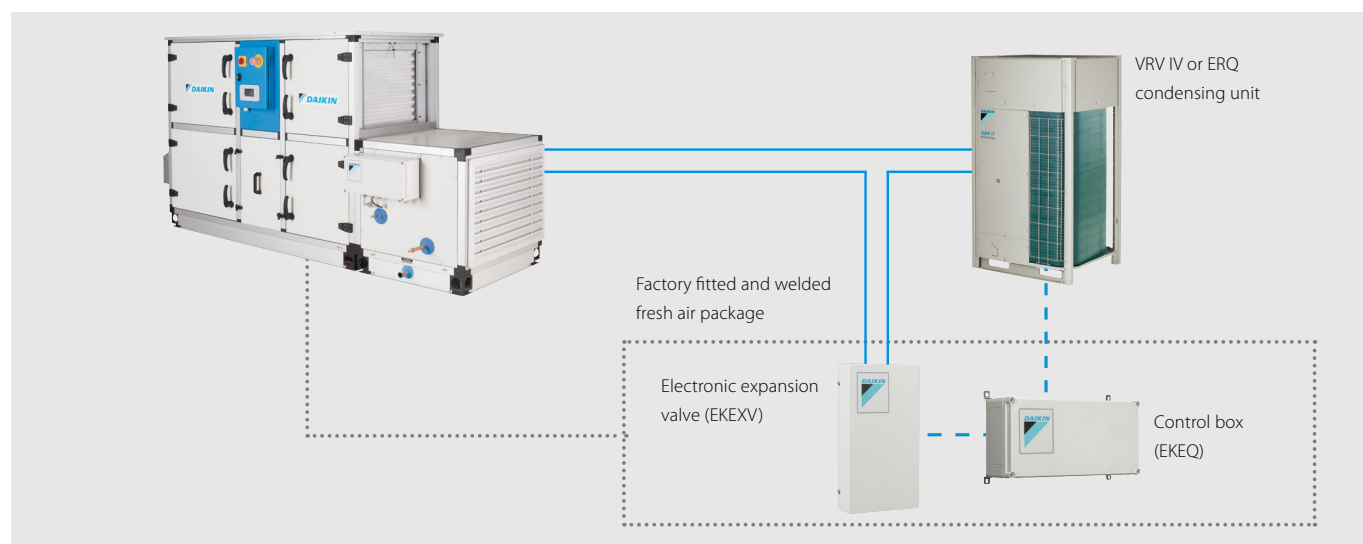
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

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

- › 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)

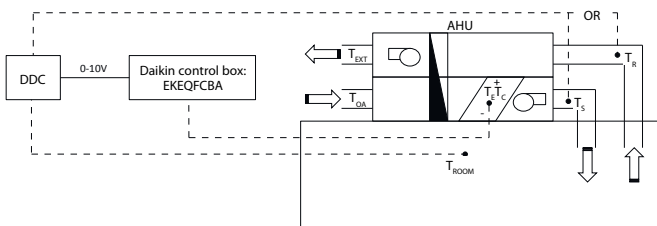
Z control: Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)

Y control: Control of refrigerant (T_e/T_c) temperature via Daikin control (no DDC controller needed)

1. W control ($T_s/T_r/T_{ROOM}$ control):

Air temperature control via DDC controller

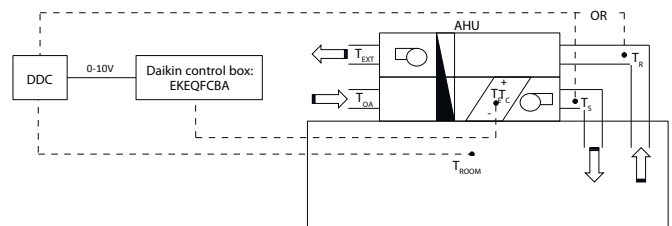
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V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



2. X control ($T_s/T_r/T_{ROOM}$ control):

Precise air temperature control via DDC controller

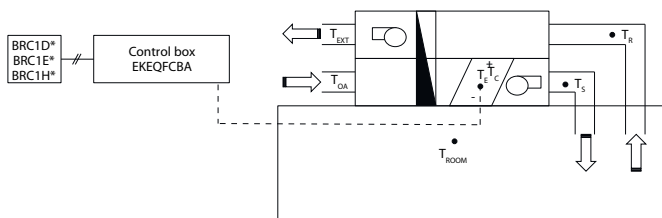
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) 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_e/T_c control):

By fixed evaporating /condensing temperature

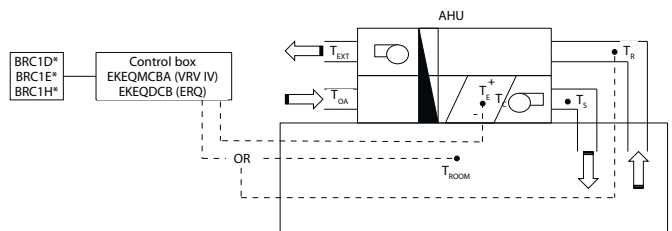
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1* - optional) have to be connected for initial set-up but not required for operation.



4. Z control (T_s/T_{ROOM} control):

Control your AHU just like a VRV indoor unit with up to 100% fresh air

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_s = Supply air temperature	T_r = Return air temperature	T_{OA} = Outdoor air temperature	T_{ROOM} = Room air temperature
T_{EXT} = Extraction air temperature	T_e = Evaporating temperature	T_c = Condensing temperature	

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

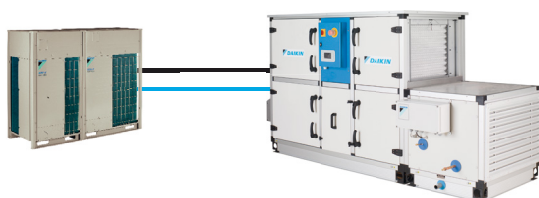
* EKEQMCB (for 'multi' application)

VRV - for larger capacities (from 8 to 54HP)

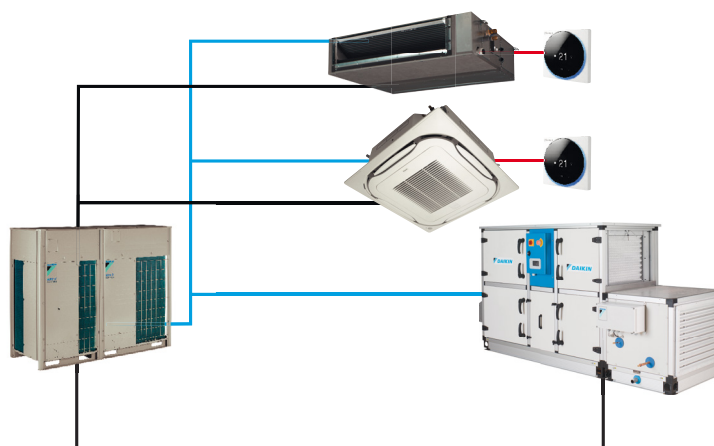
An advanced solution for both pair and multi application

- › Inverter controlled units
- › Heat recovery, heat pump
- › R-410A
- › Control of room temperature via Daikin control
- › Large range of expansion valve kits available
- › BRC1H519W/S/K is used to set the set point temperature (connected to the EKEQMCBA).
- › Connectable to all VRV heat recovery and heat pump systems

W, X, Y control for VRV IV heat pump



Z control for all VRV outdoor units



- Refrigerant piping
- F1-F2
- P1-P2



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.



Ventilation				ERQ	100AV1	125AV1	140AV1
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						3.99	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.	m ³ /min		106		
	Heating	Nom.	m ³ /min		102	105	
Sound power level	Cooling	Nom.	dBA		66	67	69
Sound pressure level	Cooling	Nom.	dBA		50	51	53
	Heating	Nom.	dBA		52	53	55
Operation range	Cooling	Min./Max.	°CDB		-5/46		
	Heating	Min./Max.	°CWB		-20/15.5		
	On coil temperature	Heating/Min./Cooling/Max.	°CDB		10/35		
Refrigerant	Type				R-410A		
	Charge		kg		4.0		
			TCO ₂ eq		8.4		
	GWP				2,087.5		
Piping connections	Control				Expansion valve (electronic type)		
	Liquid	OD	mm		9.52		
	Gas	OD	mm		15.9		19.1
	Drain	OD	mm		26x3		
Power supply	Phase/Frequency/Voltage		Hz/V		1N~/50/220-240		
Current	Maximum fuse amps (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	1,680x930x765	
Weight	Unit		kg		159	187	240
Casing	Material				Painted galvanized steel plate		
Fan-Air flow rate	Cooling	Nom.	m ³ /min		95	171	185
	Heating	Nom.	m ³ /min		95	171	185
Sound power level	Nom.		dBA		72	78	
Sound pressure level	Nom.		dBA		54	57	58
Operation range	Cooling	Min./Max.	°CDB		-5/43		
	Heating	Min./Max.	°CWB		-20/15		
	On coil temperature	Heating/Min./Cooling/Max.	°CDB		10/35		
Refrigerant	Type				R-410A		
	Charge		kg		6.2	7.7	8.4
			TCO ₂ eq		12.9	16.1	17.5
	GWP				2,087.5		
Piping connections	Control				Electronic expansion valve		
	Liquid	OD	mm		9.52		
	Gas	OD	mm		15.9	19.1	22.2
Power supply	Phase/Frequency/Voltage		Hz/V		3N~/50/400		
Current	Maximum fuse amps (MFA)		A		16	25	

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			Expansion valve kit										Mixed connection with VRV indoor units
		EKEQDCB	EKEQFCBA	EKEQMCBA	EKE XV50	EKE XV63	EKE XV80	EKE XV100	EKE XV125	EKE XV140	EKE XV200	EKE XV250	EKE XV400	EKE XV500	
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	Not possible
1-phase	ERQ100	P	P	-	-	P	P	P	P	-	-	-	-	-	
	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ140	P	P	-	-	-	P	P	P	P	-	-	-	-	
3-phase	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ200	P	P	-	-	-	-	P	P	P	P	P	-	-	
	ERQ250	P	P	-	-	-	-	-	P	P	P	P	-	-	
VRV III		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory
VRV IV H/P / VRV IV W-series		-	P (1 -> 3)	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	Possible (not mandatory)
VRV IV S-series		-	-	-	-	-	-	-	-	-	-	-	-	-	Mandatory
VRV IV H/R VRV IV i-series		-	n1	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	

- P (pair application): combination depends on the capacity of the air handling unit.
- n1 (multi application) - Combination of AHUs and VRV DX indoors (mandatory). To determine the exact quantity please refer to the engineering data book.
- n2 (multi application) - Combination of AHUs and VRV DX indoors (not mandatory). To determine the exact quantity 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.

Capacity table

Cooling

EKE XV Class	Allowed heat exchanger 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

EKE XV Class	Allowed heat exchanger capacity (kW)			Allowed heat exchanger volume (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	55.0	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

EKE XV - Expansion valve kit for air handling applications

Ventilation		EKE XV	50	63	80	100	125	140	200	250	400	500
Dimensions	Unit	mm	401x215x78									
Weight	Unit	kg	2.9									
Sound pressure level Nom.		dBA	45									
Operation range	On coil	Heating Min. °CDB	10 (1)									
	temperature	Cooling Max. °CDB	35 (2)									
Refrigerant	Type / GWP		R-410A / 2.087,5									
Piping connections	Liquid OD	mm	6.35				9.52				12.7	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.

EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	MCBA
Application			See note	Pair	Multi
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.

Pair application selection

- › **the outdoor unit is connected to ONE COIL (with single circuit or maximum 3 interlaced circuits) using up to 3 control boxes**
- › **indoor unit combination is not allowed**
- › **only works with X, W, Y control**

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 °CDB and the target supply air temperature for fresh air is 25 °CDB. Load calculations point to a required capacity of 45kW. By checking on the EKEXV capacity table, for cooling operation, 40kW falls within the 400 class valve. Since 40kW is not the nominal capacity, a class adjustment has to be done. $40/45=0,89$ and $0,89 \times 400=356$. So the capacity class of the expansion valve kit is 356.

Step 2: Outdoor unit selection

For this AHU, a VRV IV heat pump model with continuous heating is going to be used (RYYQ-T series). For a capacity of 40kW at 35 °CDB, an outdoor of 14HP (RYYQ14T) is selected. The capacity class of the 14 HP outdoor unit is 350. Total connection ratio of the system is $356/350=102\%$ hence it falls within the range 90-110%.

Step 3: Control box selection

In this particular case, the control will work with precise air temperature control. Only W or X control allow this. Since the consultant wants to use an "off-the-shelf" DDC module, the EKEQFCBA box with W control allows easy set-up due to pre-set factory values.

Multi application selection

- › **the outdoor unit can be connected to MULTIPLE COILS (and their control boxes)**
- › **indoor units are also connectable but not mandatory**
- › **only works with Z control**

Step 1: Required AHU capacity

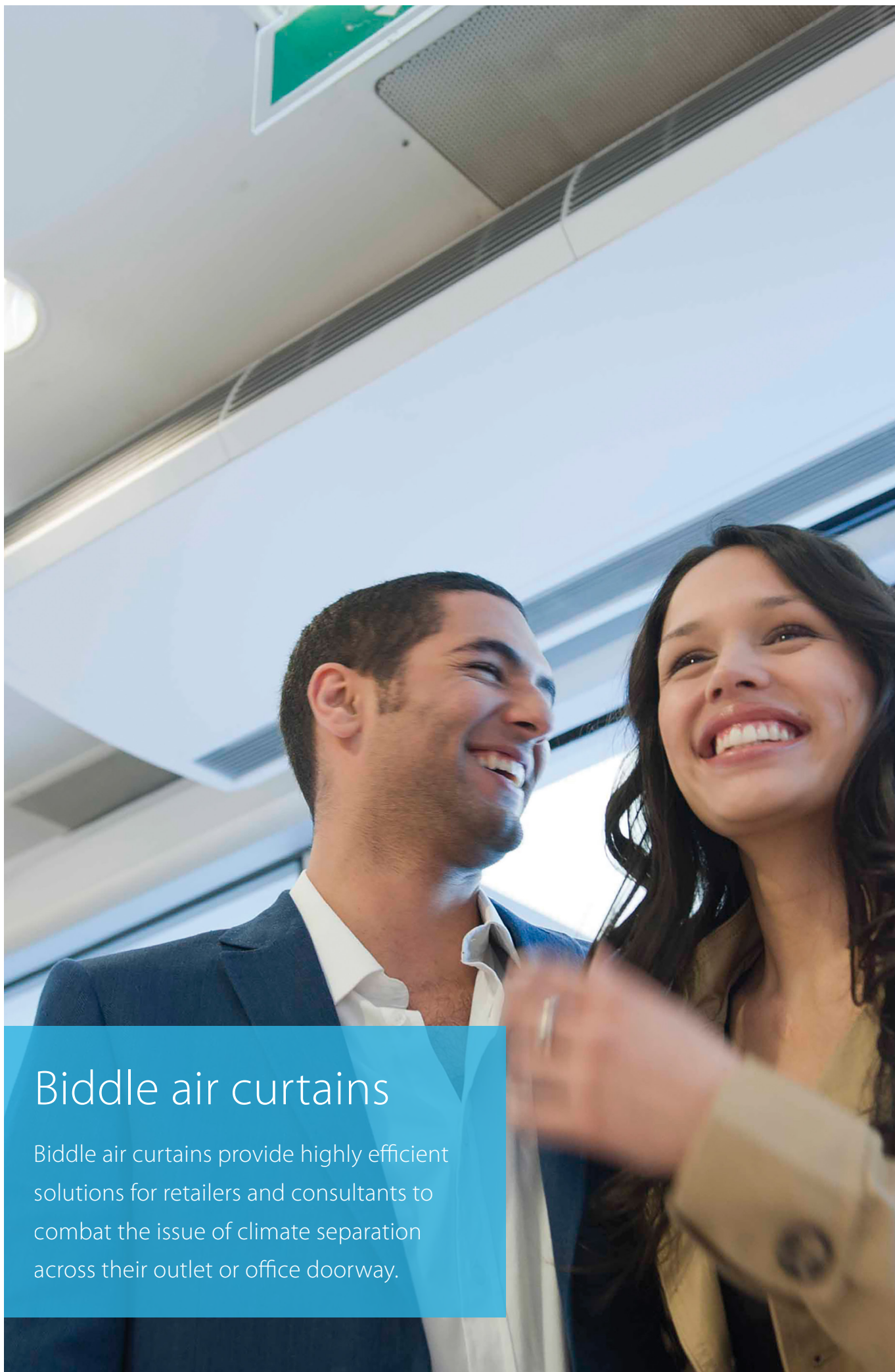
An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 °CDB and the target supply air temperature for fresh air is 25 °CDB. On top of this, for this building, 5 round-flow cassette units FXFQ50A will also be connected to this OU. Load calculations point to a required capacity of 20kW for the AHU and 22,5 kW for the indoor units. By checking on the EKEXV capacity table, for cooling operation, 20kW falls within the 200 class valve. Since 22,4 kW is the nominal capacity, a class adjustment has to be done. $20/22,4=0,89$ and $0,89 \times 200=178$. So the capacity class of the expansion valve kit is 178. Total capacity class of the indoor unit system is $178+250=428$.

Step 2: Outdoor unit selection

For this system where a AHU is connected with indoor units, it is mandatory to use a heat recovery unit. By consulting the engineering databook for REYQ-T, the total required capacity of 42,5 kW requires a 16HP model REYQ16T. Which will deliver 45kW at the design temperature of 35 °CDB. This unit has a capacity class of 400. Total connection ratio of the system is $428/400=107\%$ hence it falls within the range 50-110%.

Step 3: Control box selection

In this particular case, the only available control is Z control and the combination of AHU and VRV DX indoor units requires EKEQMCBA control box.



Biddle air curtains

Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

Biddle air curtains

connected to Daikin Heat Pumps

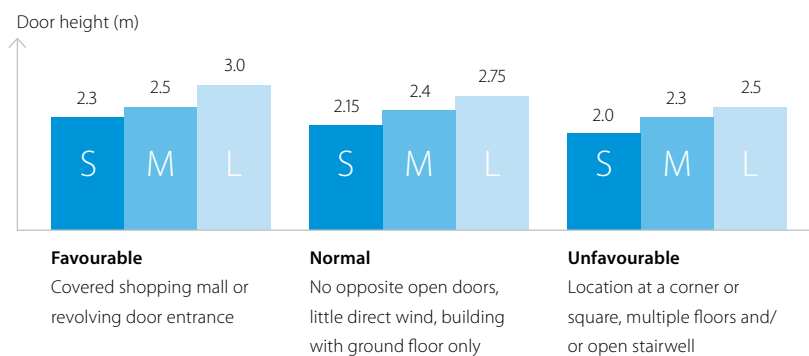
'Open Door' Trading

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.

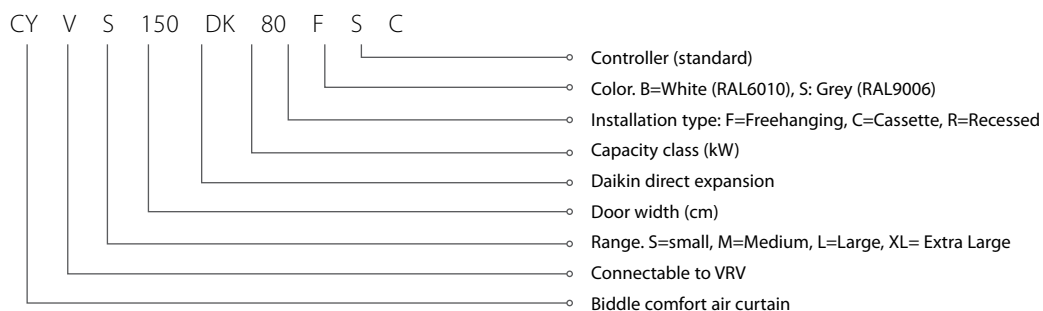
High efficiency and low CO₂ emission

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 payback period of less than 1.5 years!

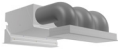
Air curtain size selector



Biddle comfort air curtain nomenclature



Portfolio

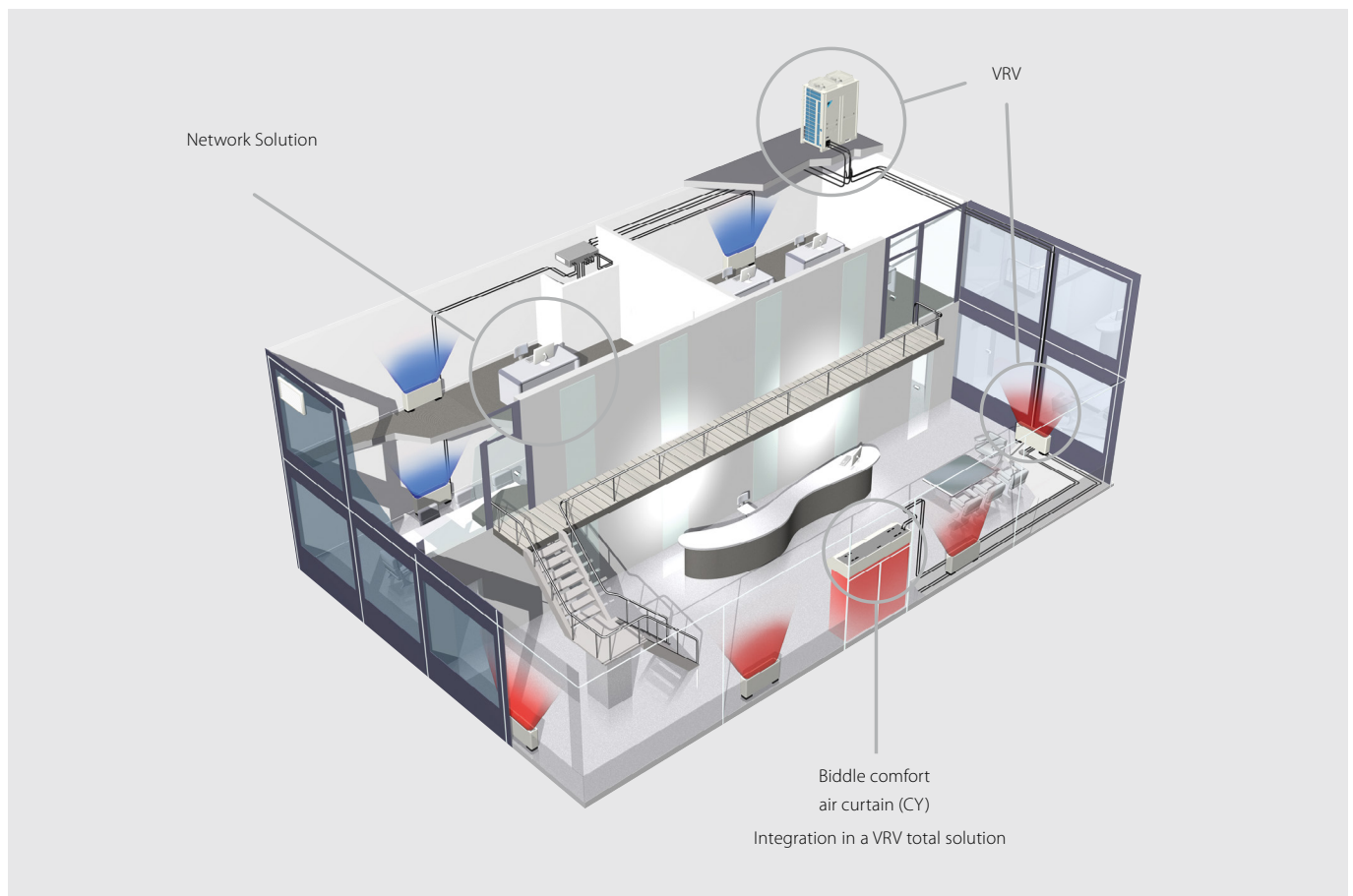
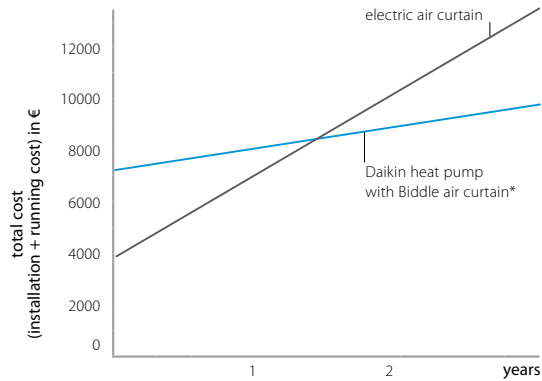
Type	Product name	
Biddle air curtain free hanging	CYV S/M/L-DK-F	
Biddle air curtain cassette	CYV S/M/L-DK-C	
Biddle air curtain recessed	CYV S/M/L-DK-R	

- › 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

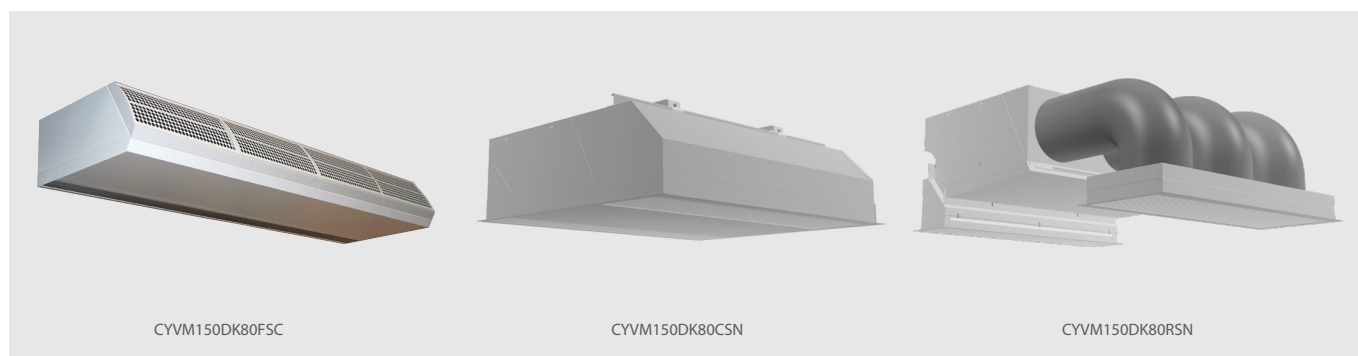
Biddle air curtain for VRV

- › 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 systems, 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



* 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



Access all technical information on Biddle air curtains
at my.daikin.eu or click here

				Small				Medium			
				CYVS100DK80 *BC/*SC	CYVS150DK80 *BC/*SC	CYVS200DK100 *BC/*SC	CYVS250DK140 *BC/*SC	CYVM100DK80 *BC/*SC	CYVM150DK80 *BC/*SC	CYVM200DK100 *BC/*SC	CYVM250DK140 *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	15		16	17	14	13	15
Casing	Colour			BN: RAL9010 / SN: RAL9006							
Dimensions	Unit	Height F/C/R	mm	270/270/270							
		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	590/821/561							
Required ceiling void >			mm	420							
Door height	Max.		m	23 (1) / 215 (2) / 20 (3)	23 (1) / 215 (2) / 20 (3)	23 (1) / 215 (2) / 20 (3)	23 (1) / 215 (2) / 20 (3)	25 (1) / 24 (2) / 23 (3)	25 (1) / 24 (2) / 23 (3)	25 (1) / 24 (2) / 23 (3)	25 (1) / 24 (2) / 23 (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 accessories (should be ordered separately)				Daikin wired remote control (BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52)							
Power supply	Voltage		V	230							

				Large			
				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	15		14	12
Casing	Colour			BN: RAL9010 / SN: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		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	774/1,105/745			
Required ceiling void >			mm	520			
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/Gas/OD		mm	9.52/16.0	9.52/19.0	9.52/22.0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52)			
Power supply	Voltage		V	230			

(1) 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

Connect with Daikin



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 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.



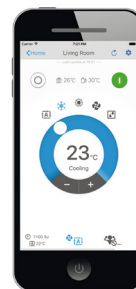
White



Silver



Black



Remote monitoring



Control Systems

New online
controller for
VRV



works with the
Google Assistant

New premium
design wired
remote control



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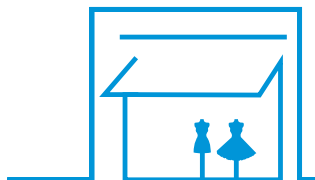
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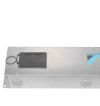
Control solutions summary

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 advanced energy management

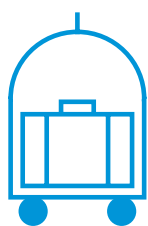
Shop



	Unit control			Integrating control			Advanced control	
								
	BRP069*	BRC1H519W7/S7/K7	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	Integrating control		Advanced control	
				PMS Interface	
	BRC1H519W7/S7/K7	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 512 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter (3) requires KNX compatible controller

Office



	Unit control	Integrating control		Advanced control	
					
	BRC1H519W7/S7/K7	EKMBDXA	DMS504B51	DMS502A51	DCC601A51
	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 outdoors (2)	1 unit for 32 indoor unit(s) (groups) (5)
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
			
	BRC1H519W7/S7/K7	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

(1) : 7 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

Always in control, no matter where you are



The Daikin Online Controller application can control and monitor the status of your system up to 50 split air conditioning units and allows you to:

Monitor:

- › The status of your air conditioner system
- › Consult **energy consumption graphs** (Split only)

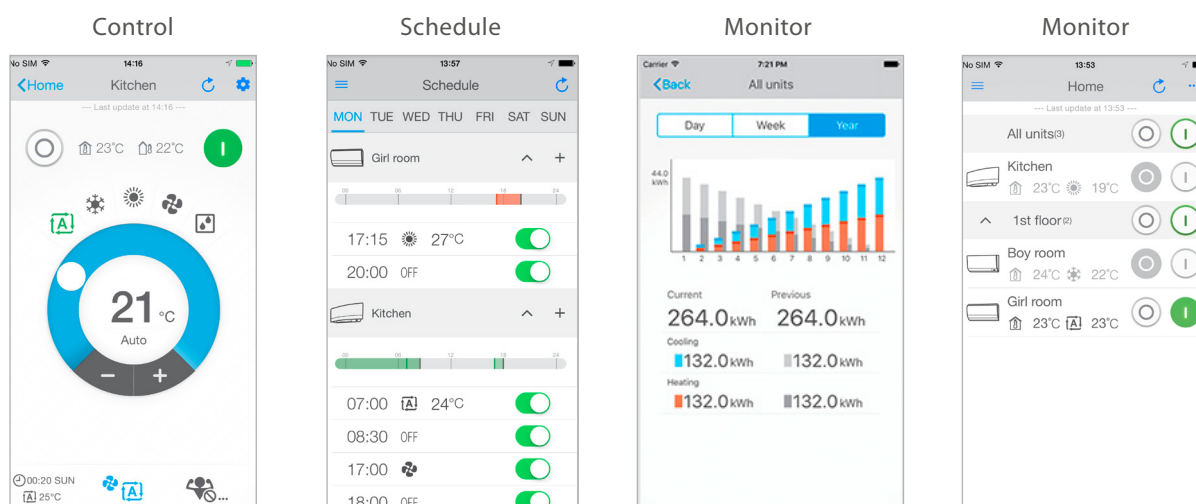
Control:

- › The **operation mode**, set temperature, fan speed and powerful mode, air direction and filtering (streamer) function (Available functions depending on connected model)
- › Remotely control your system and domestic hot water
- › **Zone control**: control **multiple** units at once
- › **Voice control** via Amazon Alexa or Google Assistant
- › Integration in smart home eco systems (contact your local sales representative for connectable systems)

Schedule:

- › Schedule the set temperature and operation mode with up to **6 actions per day for 7 days**
- › Enable **holiday mode**
- › View in an intuitive mode
- › Demand control/power limitation (Split only)

App with intuitive lay-out



Control operation mode, temperature, air purification, fan speed & air direction

Schedule the set temperature, operation mode and fan speed or holiday periods

Monitor your energy consumption

Monitor the rooms in your house

Connectable VRV indoor units:

- > FXFA-A
- > FXZA-A
- > FXDA-A
- > FXSA-A
- > FXAA-A

INTUITIVE ONLINE AND VOICE CONTROL

set the living room temperature to 21 degrees

Alright, setting the Living room to 21 degrees.



amazon alexa

works with the
Google Assistant

Madoka

The beauty of simplicity.



Silver
RAL 9006 (metallic)
BRC1H519S7



Black
RAL 9005 (matte)
BRC1H519K7



White
RAL9003 (glossy)
BRC1H519W7

User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

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



reddot award 2018
winner



**DESIGN
AWARD
2018**



Madoka Assistant



Simplifies the advanced settings such as schedule or set point limitation



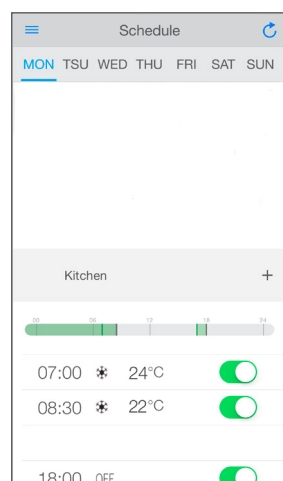
✓ Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.

NEW ✓ Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost

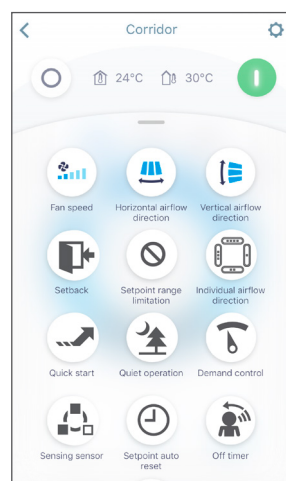
✓ Easy and quick commissioning

✓ Featuring Bluetooth® low energy technology

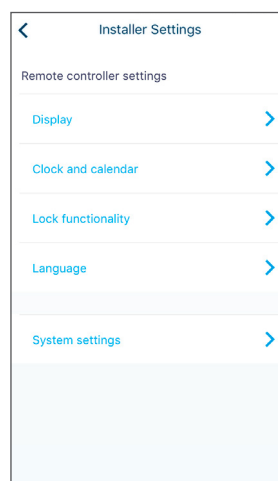
Easy setting of schedules



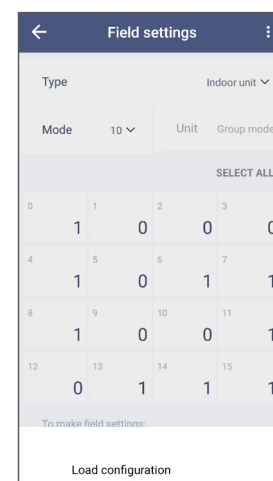
Advanced user settings



Installer settings



Field settings



BRC1H519W7 / BRC1H519S7 / BRC1H519K7

Madoka wired remote controller for Sky Air and VRV



BRC1H519W7



BRC1H519S7



BRC1H519K7

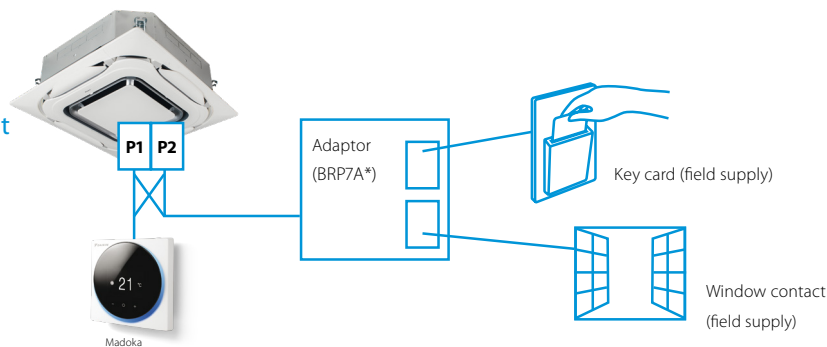
A complete redesigned controller focussed to enhance user experience

- › Sleek and elegant design
- › Intuitive touch-button control
- NEW** › 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

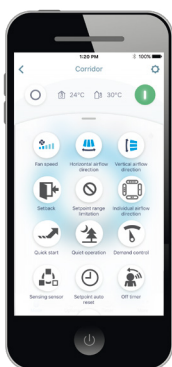
Hotel application features

- › 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

Key card and window contact integration



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



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

NEW

- › 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 Cassettes)
- › Automatic temperature reset
- › Auto off timer

Other functions

- › Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- › 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

Kilowatt-hour consumption tracking (2)

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



Cost-effective solution for infrastructure cooling applications

- › Only in combination with RZAG* / RZQG*
- › Duty rotation

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.

- › Back-up operation: if one unit fails, the other unit will start automatically

(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
- › Off timer
- ›

Cost-effective solution for infrastructure cooling applications

- › Only in combination with Sky Air A-series or Seasonal Smart outdoor unit

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

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

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*

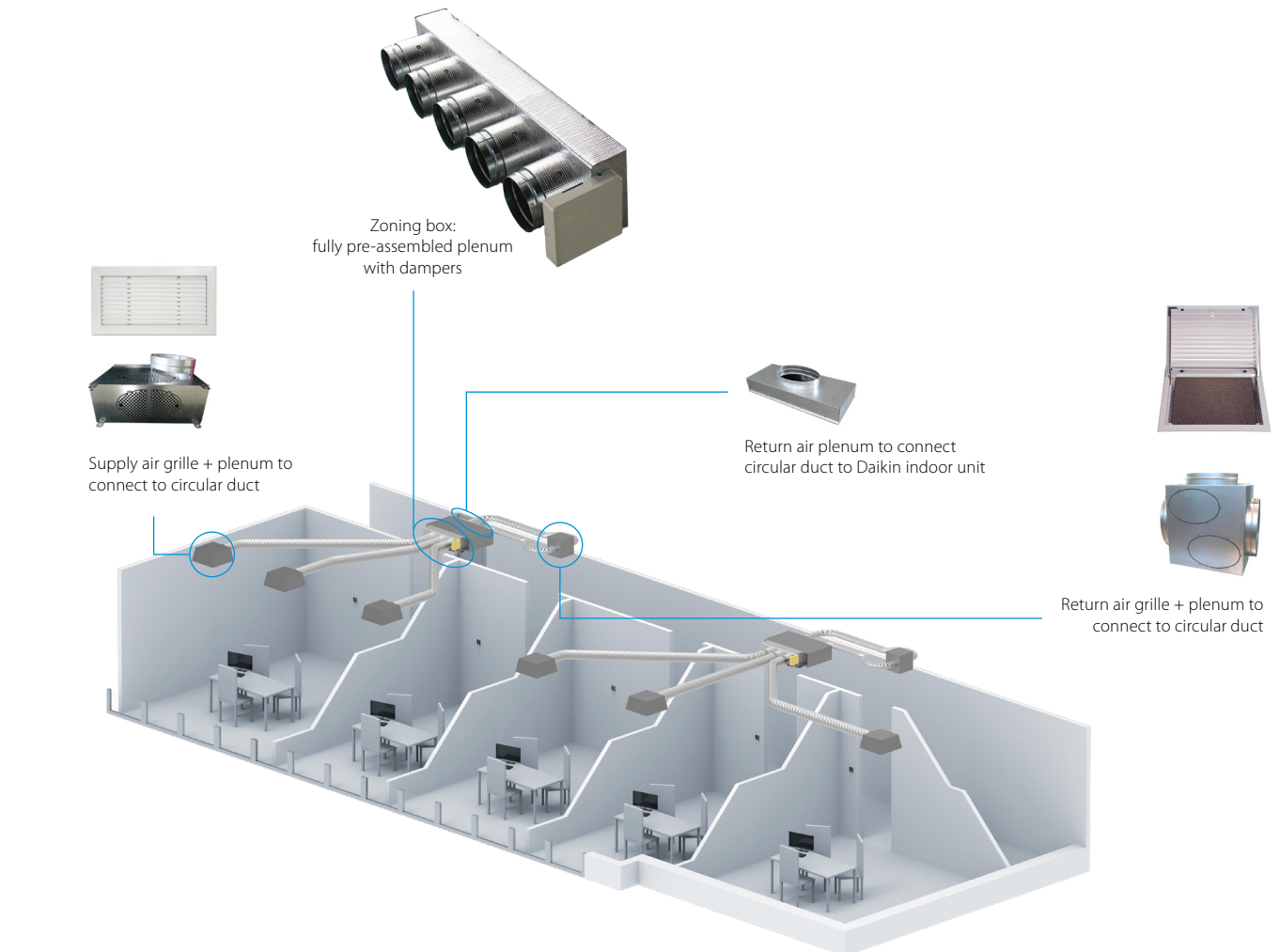
Operation buttons: ON/OFF, timer mode start/stop, timer mode on/off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/test indication (2)

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

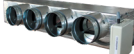
1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXM, FBA
2. For FX** units only
3. For all features of the remote control, refer to the operation manual

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

			SkyAir												VRV																					
			FDXM-F9				FBA-A(9)					ADEA-A			FXDQ-A3								FXSQ-A													
Number of motorised dampers	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	
 Standard Ceiling Void	2	AZEZ6DAIST07XS2																																		
		AZEZ6DAIST07S2						•	•																		•	•	•	•						
	3	AZEZ6DAIST07XS3																																		
		AZEZ6DAIST07S3						•	•																											
	4	AZEZ6DAIST07S4																																		
		AZEZ6DAIST07M4									•	•				•																				
	5	AZEZ6DAIST07M5									•	•				•																				
		AZEZ6DAIST07L5											•	•	•		•	•																		
	6	AZEZ6DAIST07M6									•	•				•																				
		AZEZ6DAIST07L6											•	•	•		•	•																		
7	AZEZ6DAIST07L7											•	•	•		•	•																			
	AZEZ6DAIST07XL7																																			
8	AZEZ6DAIST07L8											•	•	•		•	•																			
	AZEZ6DAIST07XL8																																			
 Compact Ceiling Void	2	AZEZ6DAISL01S2	•	•														•	•	•	•															
	3	AZEZ6DAISL01S3	•	•															•	•	•	•														
	4	AZEZ6DAISL01M4																																		
	5	AZEZ6DAISL01L5			•	•																														

Controls

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



AZCE6BLUEFACECB
(Wired)

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 mm² | 2 x 0.22 mm²), 10m length: AZX6CABLEBUS10, 100m length: AZX6CABLEBUS100



AZX6WSCLOUDDINC (Ethernet)
AZX6WSCLOUDDINR (WiFi)

Webserver for remote control

- › Cloud based remote control of multizoning kit(s)
- › Configuration and control of zones (temperature, operation mode, ...)
- › Access via webportal, or Android/IOS application



AZX6BACNET

BACnet gateway

- › Allows ON/OFF control of each zone
- › Control of temperature for each zone
- › Status indication of operation mode
- › One gateway needed per system

Grilles and plenums

Supply air grilles and plenums



RDHV040015BKX

Wall type supply grille

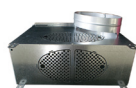
- › With horizontal and vertical adjustable flaps



RLQV040015BKX

Ceiling type supply grille

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



PREJ0400150T

Plenum for supply grille

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

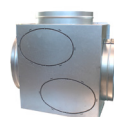
Return air grilles and plenums



RRFR050050BTX

Return air grille with integrated filter

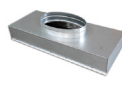
- › Filters particles from the air



BR500

Plenum for return grille

- › To connect 1 up to 4 circular ducts to the return air grille
- › 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

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

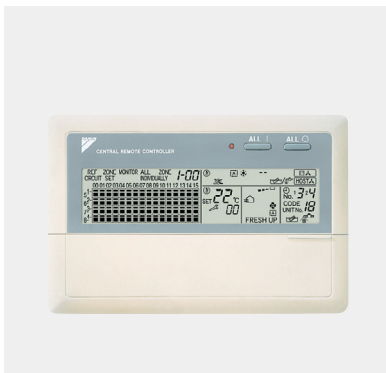
1 zone = several groups in combination.

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



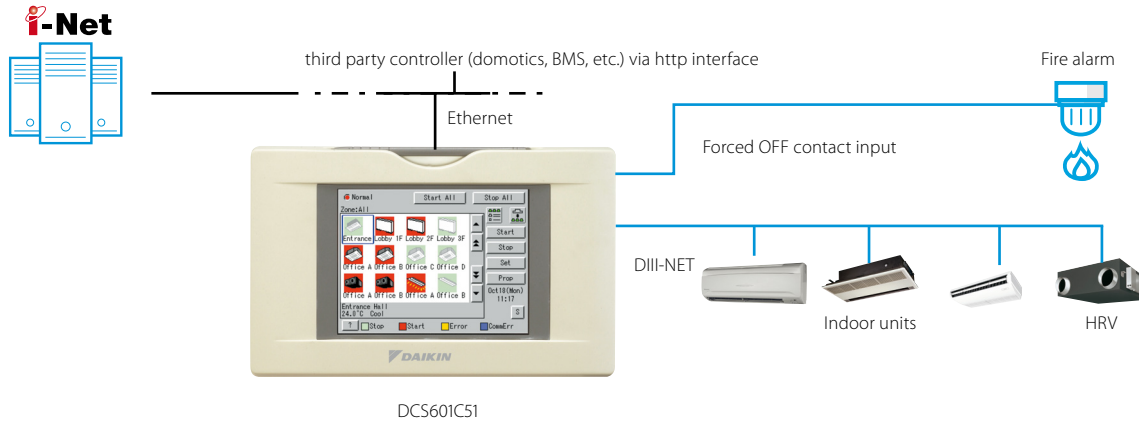
Providing simultaneous and individual control of 16 groups of indoor units.

- › 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)

Intelligent ^{touch} Controller

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 schedule
- › 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)

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:

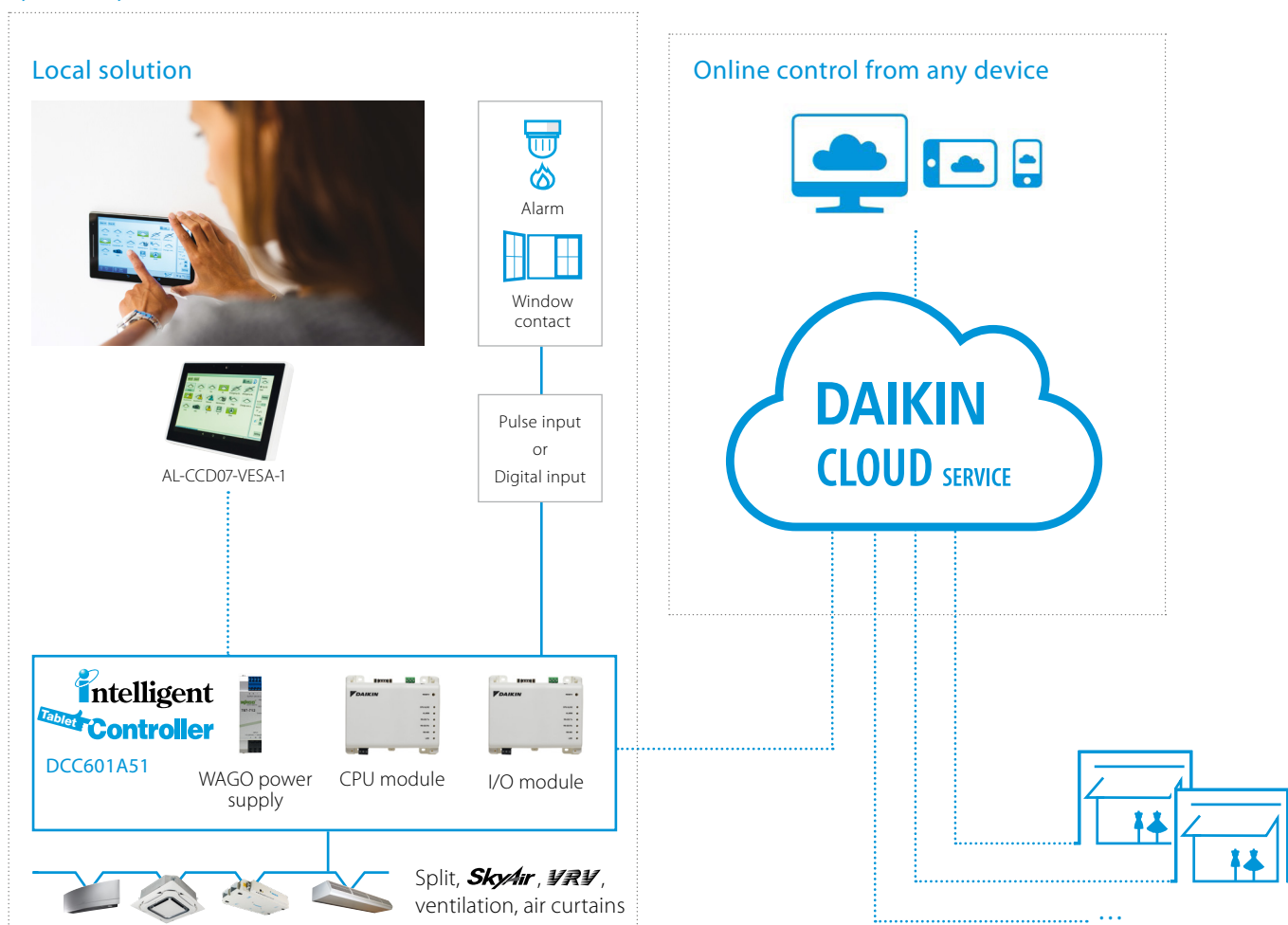
Local solution

- › 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



(1) For VRV and Sky Air R-32 ranges the consumption data is integrated; for other (HVAC) systems, field supplied kWh meters will be required

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

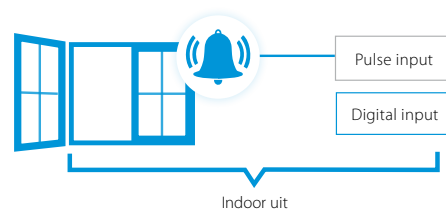
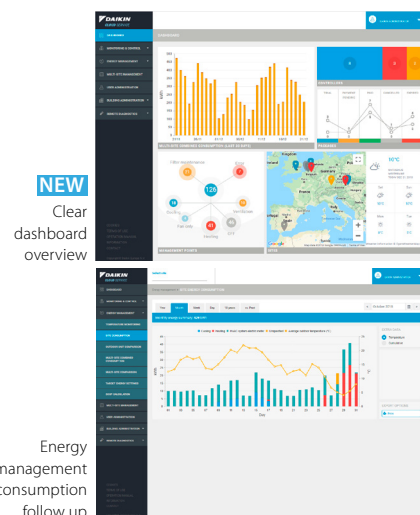
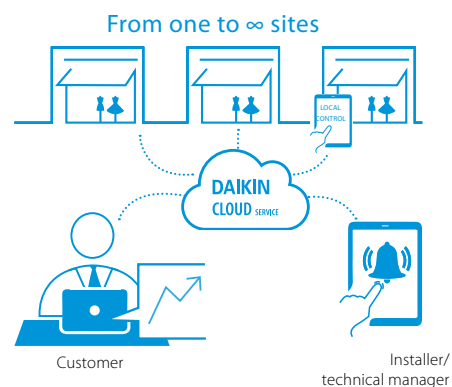
User friendly touch control

- › 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	•	•

For available Daikin Cloud Service options refer to the option list

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

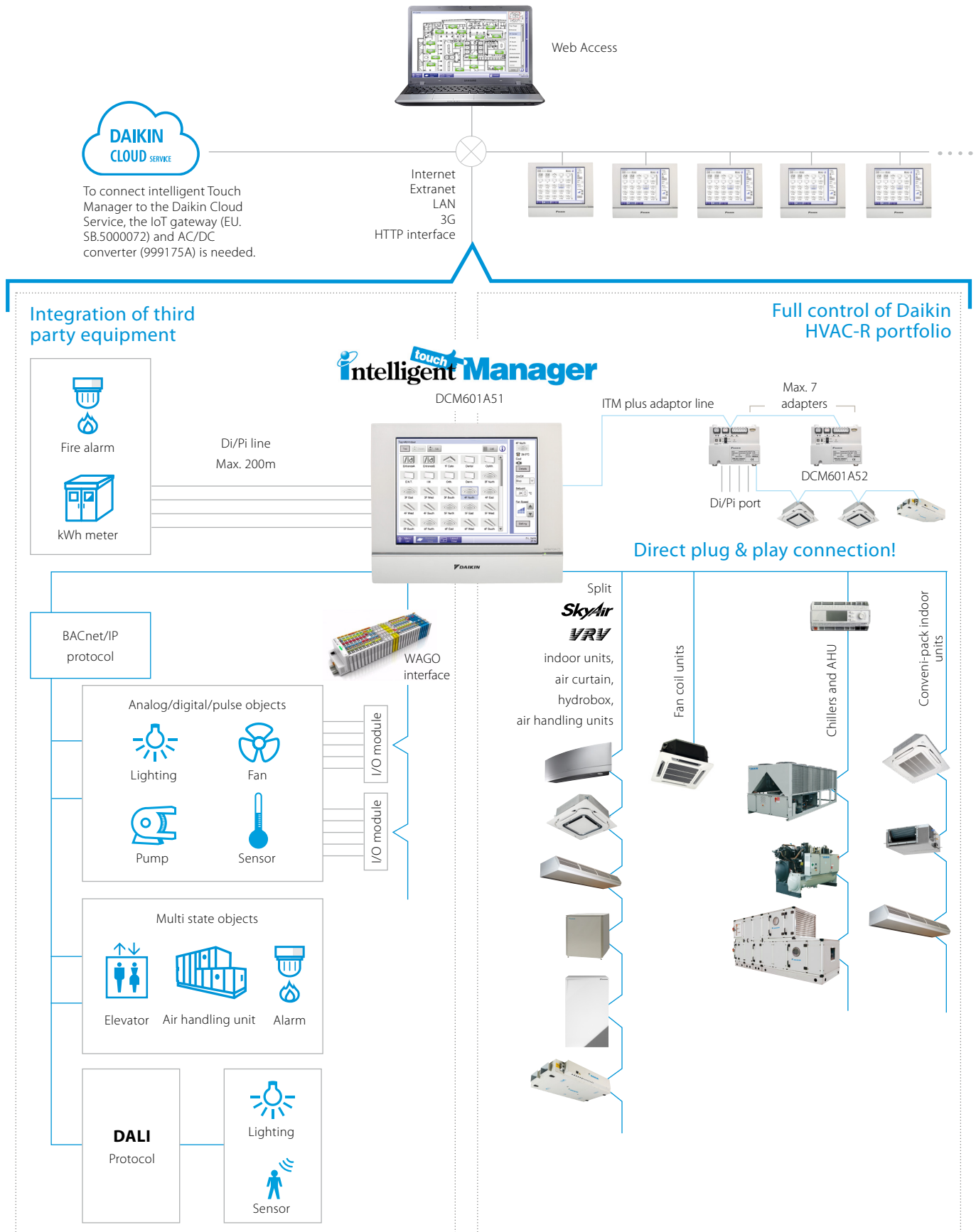
- › Easy selection of WAGO materials
- › Material list creation
- › Time saving
 - Includes wiring schemes
 - Contains commissioning/preset data for iTM



Check on
You Tube

<https://www.youtube.com/DaikinEurope>

System overview





User friendliness

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

Smart energy management

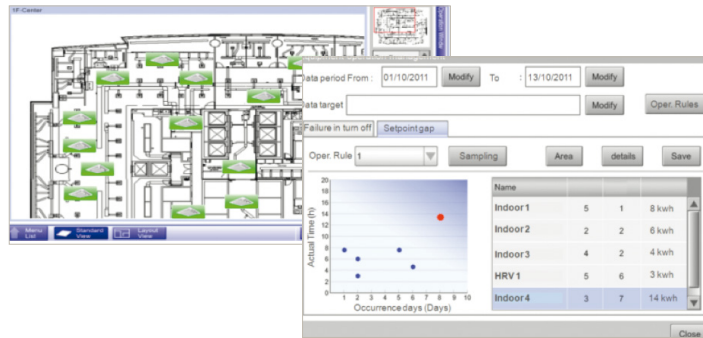
- › Monitoring if energy use is according to plan
- › Helps to detect origins of energy waste
- › Powerful schedules guarantee correct operation throughout the year
- › Save energy by interlocking A/C operation with other equipment such as heating

Flexibility

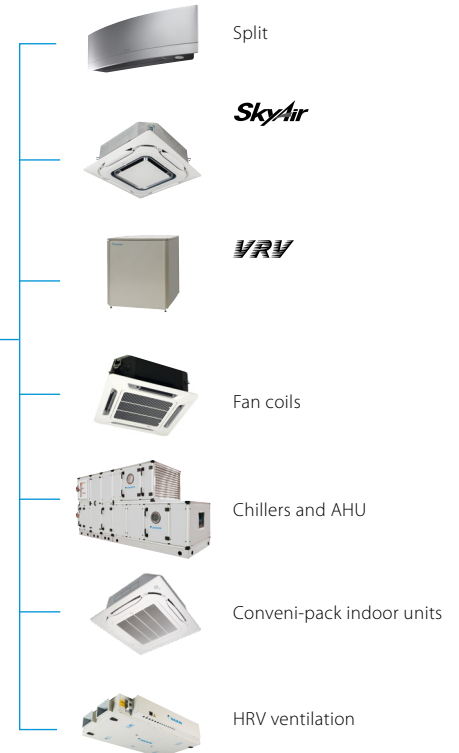
- › Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- › BACnet protocol for 3rd party products integration
- › I/O for integration of equipment such as lights, pumps... on WAGO modules
- › Modular concept for small to large applications
- › Control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

Easy servicing and commissioning

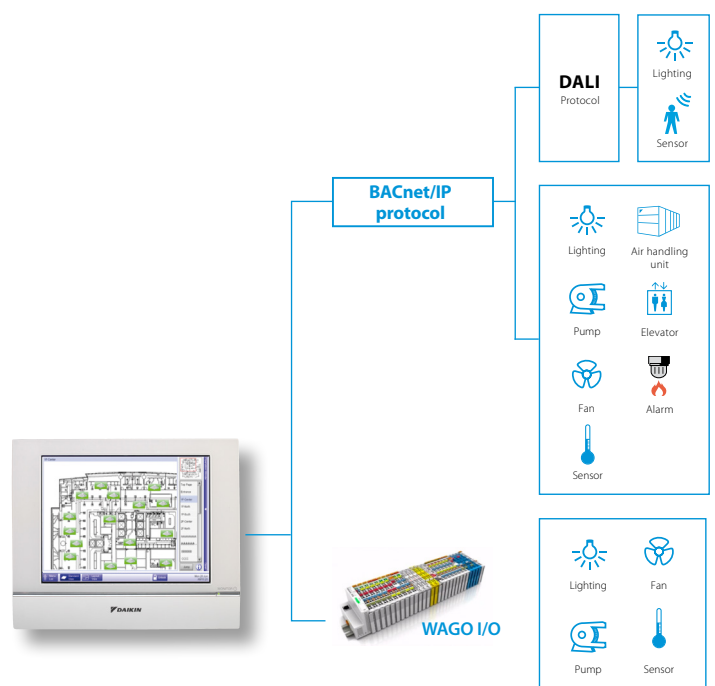
- › Remote refrigerant containment check reducing on site visit
- › Simplified troubleshooting
- › Save time on commissioning thanks to the pre-commissioning tool
- › Auto registration of indoor units



Plug & play



Flexibility in size
64 up to 512 groups



Functions overview

Languages

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

Management

- › Web access
- › 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 calendar, 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-EKCBACIP controller)
- Daikin AHU (via MT3-EKCBACIP controller)
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51)



Modbus Interface

RTD

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 CO₂ 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



Overview functions



Main functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions	80 x 80 x 37,5			100 x 100 x 22	
Key card + window contact					R
Set back function	R				R
Prohibit or restrict remote control functions (setpoint limitation, ...)	R	R		R**	R
Modbus (RS485)	R	R	R	R	R
Group control	R (1)	R	R	R	R
0 - 10 V control			R	R	
Resistance control			R	R	
IT application	R		R	R	
Heating interlock			R	R	
Output signal (on/defrost, error)			R	R****	R
Retail application				R	
Partitioned room control				R	
Air curtain		R***	R***	R	

(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
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Termo 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	100x100x22
On/off prohibition	R
Modbus RS485	R
Dry contact control	R
Output signal (operation error)	R
Space heating / cooling operation	R
Domestic hot water control	R
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
Fault/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	

Monitoring functions	
On/Off Space heating/cooling	M,C
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	M,C
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

M : Modbus / R : Resistance / V : Voltage / C: control

* : only when room is occupied / ** : setpoint limitation / (*) if available

*** : no fan speed control on the CVV air curtain / **** : run & fault

DIII-net Modbus interface

EKMBDXA

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).



* Additional centralized controller might be required. For more information contact your local dealer.

			EKMBDXA7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor 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

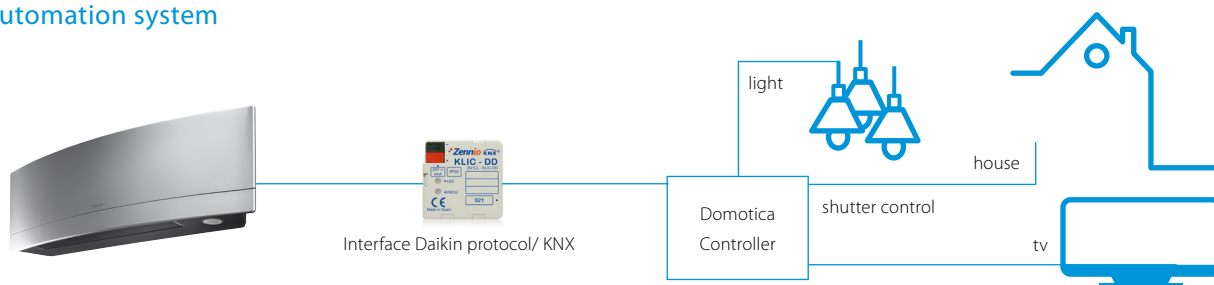
KNX interface

KLIC-DD(3)
KLIC-DI

Integration of Split, Sky Air and VRV in HA/BMS systems

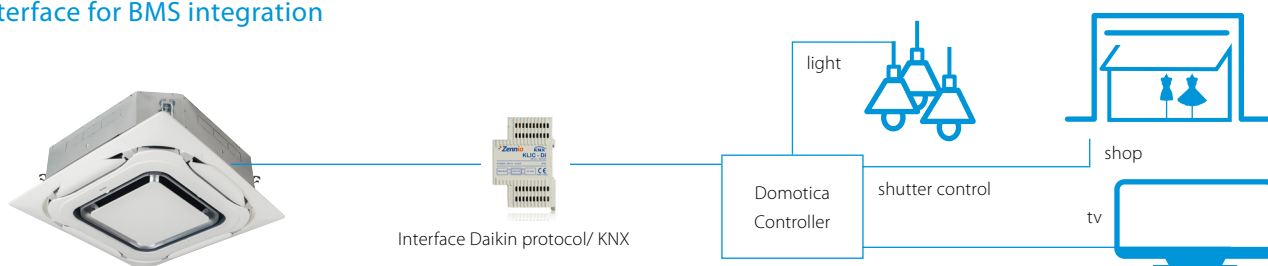
Connect split indoor units to KNX interface
for Home Automation system

Concept



Connect Sky Air / VRV indoor units to
KNX interface for BMS integration

Concept



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 Split	 KLIC-DI Size 90x60x35mm Sky Air	VRV
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
Swing	Stop or movement	Stop or movement	Swing or fixed positions (5)
Advanced functionalities			
Error management	Communication errors, Daikin unit errors		
Scenes	•	•	•
Auto switch off	•	•	•
Temperature limitation	•	•	•
Initial configuration	•	•	•
Master and slave configuration		•	•

PMS Interface

DCM010A51

Hotel interface connecting Daikin HVAC with Oracle Property Management Systems



Room view showing room status: check-in, check-out, pre-heating / cooling status, room temperature and A/C status

HVAC settings can be easily observed and changed by the reception desk

Multiple room types (bed-room, meeting room, ...) can be defined with customized A/C settings for each type

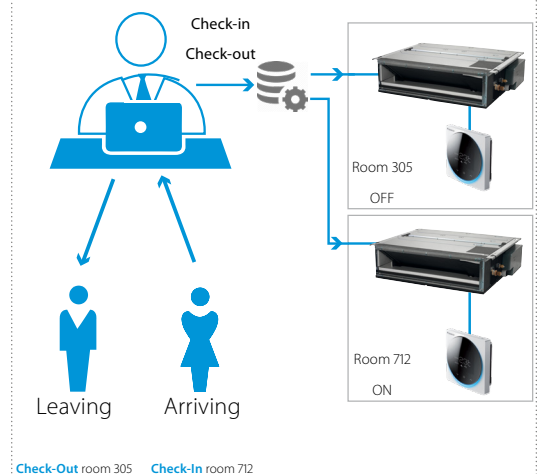
Features

- 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

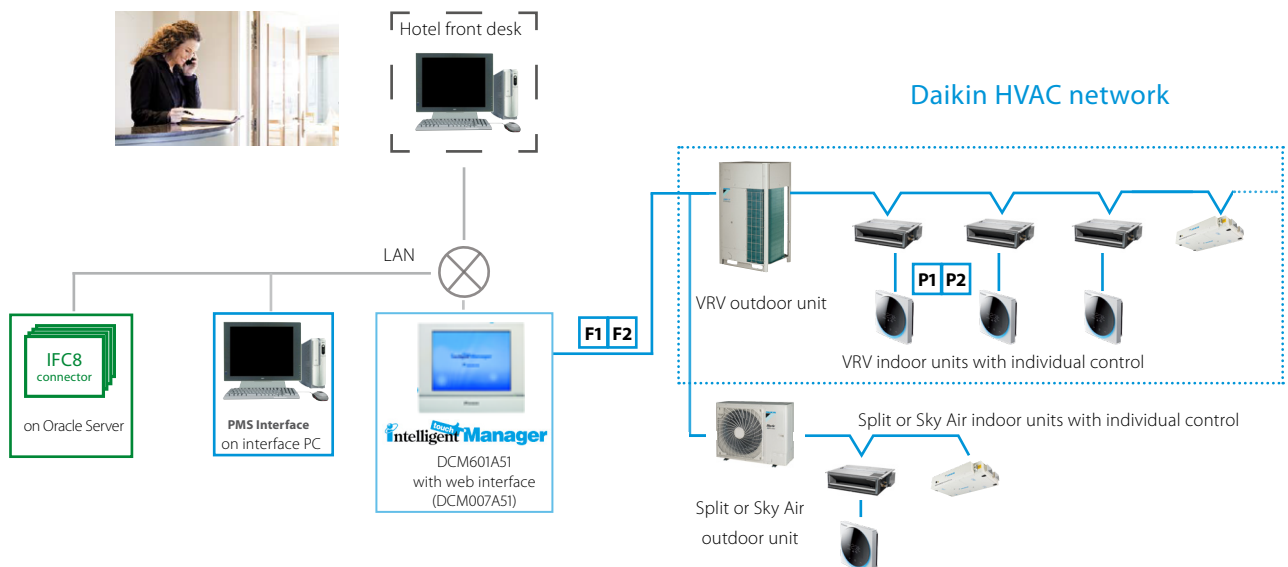
Hotel case example:

- › 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



Simplified configuration of Daikin PMS interface

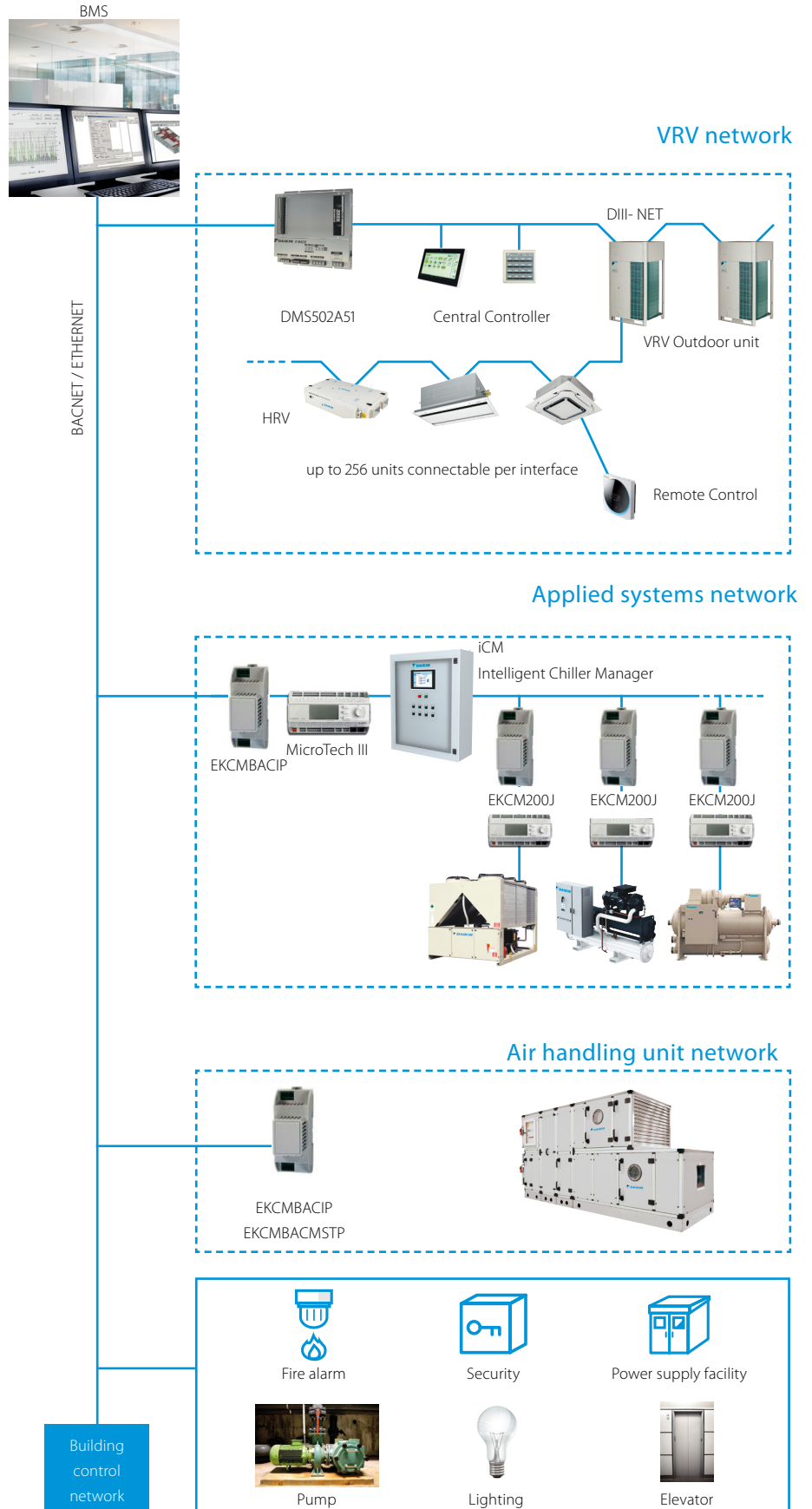


BACnet Interface

DMS502A51 / EKACBACMSTP / EKMBACIP / EKCMBACMSTP

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)



Open network integration of VRV monitoring and control functions into LonWorks networks

-
- The diagram illustrates a LonWorks network architecture for a building control system. It shows the following components and connections:
- Lon BMS (Building Management System):** Represented by a photograph of a control room with multiple computer monitors displaying data.
 - ETHERNET (TCP/IP):** The main communication backbone, shown as a vertical line.
 - LonTalk adapters:** Two adapters are shown, one for the upper network and one for the lower network, both labeled "adapter".
 - VRV network (Variable Refrigerant Volume):** A dashed blue box containing the VRV system components:
 - DMS504B51:** A LonTalk interface module.
 - Central Control:** A control unit with a screen.
 - DIII-NET:** A network interface module.
 - VRV Outdoor unit:** Two outdoor units.
 - HRV (Heat Recovery Ventilator):** A unit connected to the network.
 - up to 64 units connectable per interface:** A note indicating the network capacity.
 - Remote Control:** A device connected to the network.
 - Building control network:** A blue box representing the lower network segment.
 - LonPoint devices:** Two devices are shown connected to the lower network:
 - Security:** Represented by a key icon.
 - Fire alarm System:** Represented by a fire alarm bell icon.

Daikin Configurator Tool + Software

EKPCCAB4

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



Simplified
commissioning



Retrieve initial
system settings



Daikin Cloud Service

to achieve optimal operation



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

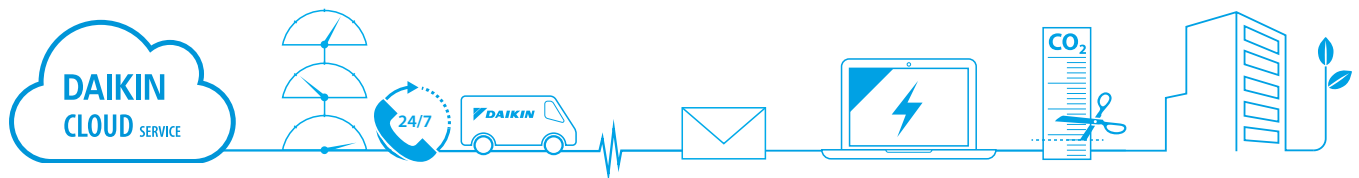
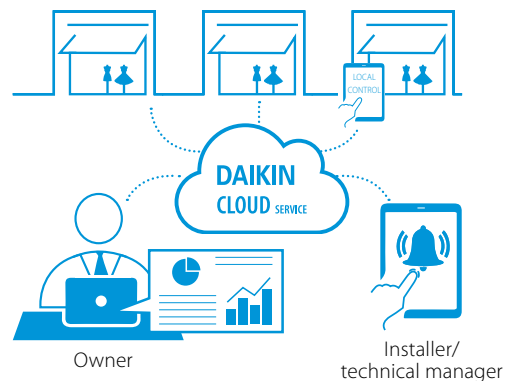
Remote support and diagnostics

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

Multi-site monitoring

From one to an ∞ number of sites



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.

* Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

** 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**	✗	✓	✓
Predictions and e-mail notifications**	✗	✓	✓
Operational data access	✗	✓	✓
Indoor use analysis	✗	✓	✓
Outdoor use analysis	✗	✓	✓
Remote diagnostic and support from Daikin	✗	✓	✓
Periodical analysis and optimisation advice from Daikin	✗	✗	✓
Can be combined with maintenance programmes: - Technical inspection - Preventive Maintenance Plan - Comprehensive Maintenance Plan	✗	✗	✓

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

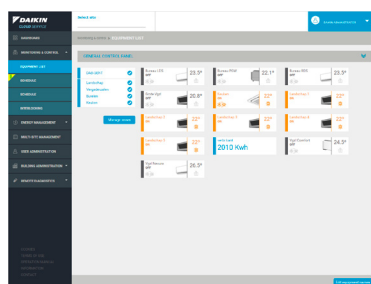
The operational data is continuously analysed by Daikin algorithms to predict potential failures and avoid unexpected costs.

Compatible with:

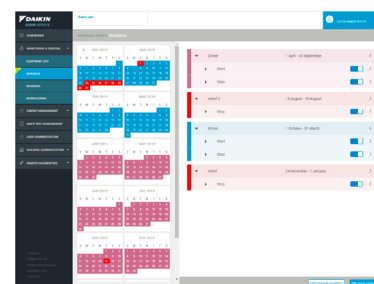
- › Intelligent Tablet Controller (DCC601A51)
- › Intelligent Touch Manager (DCM601A51) + IoT gateway
- › LC8 + IoT gateway



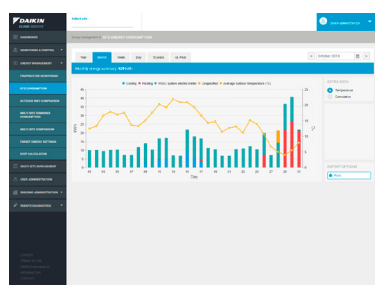
1. Clear dashboard overview



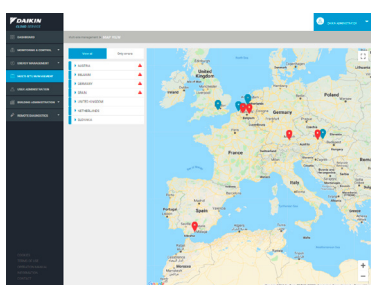
2. Monitor and control your system



3. Easy setting of schedules



4. Energy management and consumption follow up



5. Multi site management

* Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

** Only available for VRV systems

Wireless room temperature sensor

K.RSS

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 temperature 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
Operation range	°C		0~50
Communication	Type		RF
	Frequency	MHz	868.3

- › Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

Wired room temperature sensor

KRCS*



- › Accurate temperature measurement, thanks to flexible placement of the sensor
- › specific 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 requirements
- › Deployed on single or multiple units

			Connectable to:		
			Split	Sky Air	VRV
	(E)KRP1B* adapter for wiring	- Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper - Powered by and installed at the indoor unit		•	•
	KRP2A*/KRP4A* Wiring adapter for electrical appendices	- Remotely start and stop up to 16 indoor units (1 group) (KRP4A* via P1 P2) - Remotely start and stop up to 128 indoor units (64 groups) (KRP2A* via F1 F2) - Alarm indication/ fire shut down - Remote temperature setpoint adjustment - Cannot be used in combination with a central controller		•	•
	KRP58M3	Low noise and demand control option for RZQ200/250C		•	
	SB.KRP58M51	- Low noise and demand control option for RZQG and RZQSG single phase - Includes mounting plate EKMKA1		•	
	KRP58M51	Low noise and demand control option for RZQG1 and RZQSG 3 phase		•	
	DTA104A* Outdoor Unit External Control Adapter	- Individual or simultaneous control of VRV system operating mode - Demand control of individual or multiple systems - Low noise option for individual or multiple systems			•
	DCS302A52-9 Unification adapter for computerized control	- Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system - Must be used together with Intelligent Touch Controller or intelligent Touch Manager - Cannot be combined with KRP2/4* - Can be used for all VRV indoor models			•
	KRP928* Interface adapter for DIII-net	Allows integration of split units to Daikin central controls	•		
	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	•		
	KRP980* Adapter for split units without an S21 port	- Connect a wired remote control - Connect to Daikin central controls - Allow external contact	•		

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO		- External ON/OFF or forced off - Example: door or window contact
EKRORO 3		- External ON/OFF or forced off - F1/F2 contact - Example: door or window contact
KRC19-26A		- Mechanical cool/heat selector - Allows switching over an entire system between cooling/heating/fan only - Connects to the A/B/C terminals of the unit
BRP2A81		- Cool/heat selector PCB - Required to connect KRC19-26A to a VRV IV outdoor unit

AUTO-CLEANING PANEL



FILTERS



INTELLIGENT SENSORS



Options

& accessories

<u>Options & accessories</u>	<u>195</u>
VRV outdoor	196
VRV indoor	200
Indoor & Hot Water	202
Ventilation	204
Control Systems	206

Options & accessories -  outdoor		VRV S-series		VRV IV Heat Recovery			
		RXYSA-AV1/AY1	REYQ 8~12	REYQ 14~20	REMQ5	2-module systems	3-module systems
Kits	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system					BHFQ23P907	BHFQ23P1357
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units		Special order unit				
	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		
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.		•	•	•	1 kit per system	1 kit per system
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.	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 mounting plate is required. See Options & Accessories of indoor units					
	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	•					
Others	EKCHSC - Cool/heat selector cable						
	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 Drain plug kit						

		VRV IV S-series		
		RXYSCQ-TV1	RXYSQ4-6TV9	RXYSQ4-6TY9
Kits	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 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)			
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.			
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.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units		
	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)		EBRP2B	
	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		•	•
Others	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 Drain plug kit		•	•

VRV IV with continuous heating						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	2-module systems	3-module systems
				BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517
EKBPH012T7A	EKBPH020T7A	EKBPH012T7A	EKBPH020T7A			EKBPH012T7A	EKBPH020T7A						
•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system				

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 mounting plate is required. See Options & Accessories of indoor units

•	•	•	•	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
	EKDPH1RDX	EKDPH1RDX		

DTA104A53/61/62

For installation into an indoor unit: exact adapter type depends on type of indoor unit.
See Options & Accessories of indoor units

			•	•
				BRP2A81
			•	•
•			•	•
•				

		VRV IV-Q Heat Pump Replacement VRV				
		RQYQ 140P	RXYQQ8-12	RXYQQ14-20	2-module systems	3-module systems
Kits	Multi-module connection kit (obligatory) Connects multiple modules into a single refrigerant system				BHFQ22P1007	BHFQ22P1517
	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		
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	•	•	•	1 kit per system	1 kit per system
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.	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 mounting plate is required. See Options & Accessories of indoor units		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 mounting plate is required. See Options & Accessories of indoor units		
	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
Others	KJB111A Installation box for remote cool/heat selector KRC19-26A	•	•	•	1 kit per system	1 kit per system
	EKPCCAB4 VRV configurator		•	•	•	•
	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			•		
	DTA109A51 DIII-net expander adapter	•	•	•	•	•

Refnets & branch selector boxes

		Refnet 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
Refnets	Metric-size connections for heat pump systems (2-pipe)	KHRQM22M20T	KHRQM22M29T	KHRQM22M64T	KHRQM22M75T	KHRQM22M29H	KHRQM22M64H
	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20T	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHRQ22M29H	KHRQ22M64H
	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
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	EKBSVOLNP Sound reduction kit (sound insulation)						
	KHFP26A100C Closed pipe kit						
	KHRP26A1250C Joint kit						
	Quiet kit						

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFAQ1 and EKHBFAQ2. The kits contain insulation material that complies with EN13501-1:B-S3,dO and BS476-7 (class 1)

VRV III-Q Heat Recovery Replacement VRV				VRV-W IV Water-cooled VRV				
					Heat Pump application		Heat Recovery application	
RQEQ 140~212	2-module systems	3-module systems	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)
•	1 kit per system	1 kit per system	1 kit per system					

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		
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•

Capacity index > 640	Heat Recovery Branch Selector Boxes (BS-Boxes)						
	1-port BS1Q-A	4-port BS4Q14AV1B	6-port BS6Q14AV1B	8-port BS8Q14AV1B	10-port BS10Q14AV1B	12-port BS12Q14AV1B	16-port BS16Q14AV1B
KHRQM22M75H							
KHRQ22M75H							
KHRQM23M75H							
KHRQ23M75H							
	•						
		•	•	•	•	•	•
		•	•	•	•	•	•
		KDDN26A4	KDDN26A8	KDDN26A8	KDDN26A12	KDDN26A12	KDDN26A16

Options & accessories - **VRV** indoor

		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
Panels	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: BYCQ60C2W1W (white panel) BYCQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel) R-32 model: BYCQ60C4W1W (white panel) (19) BYCQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)	BYBCQ40H	BYBCQ63H	BYBCQ125H
	Panel spacer for reducing required installation height		KDBQ44B60 (Standard panel)			
	Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	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) BRYQ60A3S (grey) BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)			
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
	BRP069C51 - Online controller	●(R-32 model only)	●(R-32 model only)			
	Madoka BRC1H519W7 (White) / BRC1H519S7 (Silver) / BRC1H519K7 (Black) User-friendly wired remote controller with premium design	R-410A model: BRC1H519W7/S7/K7 R-32 model: BRC1H52W/S/K	R-410A model: BRC1H519W7/S7/K7 R-32 model: BRC1H52W/S/K	●	●	●
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light	●(18)	●(18)	●	●	●
Centralised control systems	BRC1D52 (4) - Standard wired remote control with weekly timer	●(15)(18)	●(18)	●	●	●
	DCC601A51 - intelligent Tablet Controller	●	●	●	●	●
	DCS601C51 (12) - intelligent Touch Controller	●	●	●	●	●
	DCS302C51 (12) - Central remote controller	●	●	●	●	●
Building Management System & Standard protocol interfaces	DCS301B51 (12) (13) - Unified ON/OFF controller	●	●	●	●	●
	DST301B51 (12) - Schedule timer	●	●	●	●	●
	for individual control					
	for central control					
Filters	RTD-NET - Modbus interface for monitoring and control	●	●	●	●	●
	RTD-10 - Modbus interface for infrastructure cooling	●	●	●	●	●
	RTD-20 - Modbus interface for retail	●	●	●	●	●
	RTD-HO - Modbus interface for hotel	●	●	●	●	●
Wiring and sensors	KLIC-DI - KNX Interface	●	●	●	●	●
	DCM601A51 - intelligent Touch Manager	●	●	●	●	●
	EKMBOXA - Modbus interface	●	●	●	●	●
	DCM010A51 - Daikin PMS interface	●	●	●	●	●
Adapters	DMS502A51 - BACnet Interface	●	●	●	●	●
	DMS504B51 - LonWorks Interface	●	●	●	●	●
	Replacement long life filter, non-woven type	KAFP551K160	KAFQ441BA60	KAFP531B50	KAFP531B80	KAFP531B160
	Auto cleaning filter	see decoration panel				
Others	KRCS - External wired temperature sensor	KRCS01-7B	R-410A model: KRCS01-4 R-32 model: KRCS01-8B	KRCS01-4	KRCS01-4	KRCS01-4
	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)	EKR1P1C12 (2)(7)	R-410A model: EKR1P1B2 R-32 model: EKR1P1C14 (2)	EKR1P1B2	EKR1P1B2	EKR1P1B2
Others	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51 (2)	KRP4A51 (2)	KRP4A51 (2)
	Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)
	Adapter for keycard and/or window contact connection (2)(11)	BRP7A53	BRP7A53	BRP7A51	BRP7A51	BRP7A51
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61 (R-410A model only)	DTA114A61 (R-410A model only)			
Others	External control adapter for outdoor unit (installation on indoor unit)			DTA104A61	DTA104A61	DTA104A61
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98A (7) KRP1BC101	KRP1BB101 KRP1BC101	KRP1C96 (16) (17)	KRP1C96 (16) (17)	KRP1C96 (16) (17)
	Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard	Standard	Standard	Standard
	Relay PCB for output signal of refrigerant sensor	R-32 model only: ERP01A51	R-32 model only: ERP01A50 (2)			
Others	Drain pump kit	Standard	Standard	Standard	Standard	Standard
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)					
	Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60			
	Air discharge adapter for round duct			KDDFP53B50	KDDFP53B80	KDDFP53B160
Others	Filter chamber for bottom suction					

(1) 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

(5) 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)			Ceiling suspended units		
		High ESP		High ESP	1-way blow		
		FXMQ 50~80	FXMQ 100~125	FXMQ 200~250	FXHQ 32A	FXHQ 63A	FXHQ 71~100A
Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)						
	Panel spacer for reducing required installation height						
	Sealing kit for 3- or 2-directional air discharge						
	Sensor kit						
Individual control systems	Infrared remote control including receiver	BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7GA53-9	BRC7GA53-9
	Madoka BRC1H519W(7) (White) / BRC1H519S(7) (Silver) / BRC1H519K(7) (Black) User-friendly wired remote controller with premium design	●	●	●	●	●	●
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light	●	●	●	●	●	●
	BRC1D52 (4) - Standard wired remote control with weekly timer	●	●	●	●	●	●
Centralised control systems	DCC601A51 - Intelligent Tablet Controller	●	●	●	●	●	●
	DCS601C51 (12) - intelligent Touch Controller	●	●	●	●	●	●
	DCS302C51 (12) - Central remote control	●	●	●	●	●	●
	DCS301B51 (12) (13) - Unified ON/OFF control	●	●	●	●	●	●
	DST301B51 (12) - Schedule timer	●	●	●	●	●	●
Building management system + standard protocol interface	DCM601A51 - Intelligent Touch Manager	●	●	●	●	●	●
	EKM8DXA - DIII-net modbus interface	●	●	●	●	●	●
	KLIC-DI - KNX interface	●	●	●	●	●	●
	DMS502A51 - BACnet interface	●	●	●	●	●	●
	DMS504B51 - LowWorks interface	●	●	●	●	●	●
Filters	Replacement long life filter, non-woven type			KAF372M280 (18)	KAFP501A56	KAFP501A80	KAFP501A160
	Auto cleaning filter						
Wiring and sensors	KRCS - External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4
	K.RSS - External wireless temperature sensor	●	●	●	●	●	●
Adapters	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 0-140Ω	KRP4A51	KRP4A51	KRP4A51	KRP4A52 (2)	KRP4A52 (2)	KRP4A52 (2)
	Adapter for external central monitoring/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51	KRP2A62 (2)	KRP2A62 (2)	KRP2A62 (2)
	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				
	External control adapter for outdoor unit (installation on indoor unit)	DTA104A61	DTA104A61	DTA104A61	DTA104A62	DTA104A62	DTA104A62
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP4A96	KRP4A96		KRP1D93A	KRP1D93A	KRP1D93A
	Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard	Standard	EKRORO4	EKRORO4	EKRORO4
Others	Drain pump kit	Standard	Standard	KDU30M250	KDU50P60	KDU50P140	KDU50P140
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)						
	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

NEW

- (1) 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 BYCQ140E decoration panel in environments exposed to concentrations of dirt*
 (4) 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
 (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
 (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 harness 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
 (17) Only one installation box can be installed per indoor unit
 (18) Filter chamber KDJ3705L280 is necessary for this option

	Wall mounted units	Floor standing units			
4-way blow		Concealed	Free-standing		
FXUQ-A	FXAQ-A	FXNQ-A	FXLQ 20~25	FXLQ 32~40	FXLQ 50~63
			EKRDP25A	EKRDP40A	EKRDP63A
KDBHP49B140 + KDBTP49B140					
BRC7C58	BRC7EA628	BRC4C65	BRC4C65	BRC4C65	BRC4C65
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
KAFP551K160					
KRCS01-4	KRCS01-1B	KRSC01-4	KRCS01-1	KRCS01-1	KRCS01-1
•	• (14)	•	•	•	•
	KRP1B56	KRP1B56	KRP1B61	KRP1B61	KRP1B61
KRP4A53 (2)	KRP4AA51 (2)	KRP4A54-9	KRP4A51	KRP4A51	KRP4A51
	KRP2A51 / KRP2A61(2)	KRP2A53	KRP2A51	KRP2A51	KRP2A51
BRP7A53		BRP7A51	BRP7A51	BRP7A51	BRP7A51
	DTA114A61	DTA114A61	EKMTAC	EKMTAC	EKMTAC
	DTA104A51 / DTA104A61				
KRP1B97	KRP4AA93 (16)(17)				
EKROR05	Standard	Standard	Standard	Standard	Standard
	K-KDU572EVE				

	HXY080-125A8	HXHD125-200A8
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRPIHBAA	-
Demand PCB - Required to connect room thermostat	EKRPIAHTA	-
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 installer needs to select 1 master & 1 slave	EKRUAHTB	-
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat - Requires demand PCB EKRPIAHTA	EKRRTWA	-
Wireless room thermostat - Requires demand PCB EKRPIAHTA	EKRTR1	-
Remote sensor for room thermostat - Requires demand PCB EKRPIAHTA	EKRTETS	-
Domestic hot water tank - standard (stacked on top of hydrobox)	-	EKHTS200AC EKHTS260AC
Domestic hot water tank - with possibility for solar connection	-	EKHWP500B
Solar collector (1)	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station	-	EKSRRPS

		Heat Recovery Ventilation - Modular L (Smart)						
		ALB02LBS/RBS	ALB03LBS/RBS	ALB04,05LBS/RBS	ALB06,07LBS/RBS	VAM 150FC9	VAM 250FC9	VAM 350J
Individual control systems	BRC301B61 VAM wired remote control	•	•	•	•	•	•	•
	Madoka BRC1H519W7 (White) / BRC1H519S7 (Silver) / BRC1H519K7 (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•
	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•
Centralised control systems	DCC601A51 intelligent Tablet Controller	•	•	•	•	•	•	•
	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•
	DCS302C51 Central remote control	•	•	•	•	•	•	•
	DCS301B51 Unified ON/OFF control	•	•	•	•	•	•	•
	DST301B51 Schedule timer	•	•	•	•	•	•	•
	DCM601A51 intelligent Touch Manager	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	EKMBOXA Modbus interface	•	•	•	•	•	•	•
	DMS502A51 BACnet Interface	•	•	•	•	•	•	•
	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•
Filters	Coarse 55% (G4)	ALF02G4A	ALF03G4A	ALF05G4A	ALF07G4A			
	ePM ₁₀ 75% (M5)	ALF02M5A	ALF03M5A	ALF05M5A	ALF07M5A			
	ePM ₁₀ 70% (M6)							EKAFVJ50F6
	ePM ₁ 50% (F7)	ALF02F7A	ALF03F7A	ALF05F7A	ALF07F7A			
	ePM ₁ 55% (F7)							EKAFVJ50F7
	ePM ₁ 70% (F8)							EKAFVJ50F8
	ePM ₁ 80% (F9)	ALF02F9A	ALF03F9A	ALF05F9A	ALF07F9A			
	High efficiency filter							
	Replacement air filter							
Mechanical accessories	Rail	ALA02RLA	ALA03RLA	ALA05RLA	ALA07RLA			
	Rectangular to round duct transition	ALA02RCA	ALA03RC	ALA05RCA	ALA07RCA			
	Separate plenum							
CO ₂ sensor		BRYMA200	BRYMA200	BRYMA200	BRYMA200			BRYMA65
Electrical heater		ALD02HEFB	ALD03HEFB	ALD05HEFB	ALD07HEFB	GSIEKA10009	GSIEKA15018	GSIEKA20024
Silencer (900mm depth)		ALS0290A	ALS0390A	ALS0590A	ALS0790A			
Electrical accessories	Wiring adapter for external monitoring/control (controls 1 entire system)					KRP2A51	KRP2A51	KRP2A51 (2)
	Adapter PCB for humidifier					KRP50-2	KRP50-2	KRP1C4 (5)
	Adapter PCB for third party heater					BRP4A50	BRP4A50	BRP4A50A (4)
	External wired temperature sensor							
	Adapter PCB Mounting plate							

Notes

(1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, ...; (intelligent Touch Manager, EKMBOXA are allowed)

(2) Installation box KRPIBA101 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 KRPS0-2A90 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 recovery ventilation - VAM						Energy recovery ventilation VKM			Air handling unit applications		
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)
•	•	•	•	•	•						
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•			
EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6 x2						
EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7 x2	EKAFVJ100F7 x2						
EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2						
						KAF242H80M	KAF242H100M	KAF242H100M			
						KAF241H80M	KAF241H100M	KAF241H100M			
				EKPLEN200 (6)	EKPLEN200 (6)						
BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200	BRYMA65	BRYMA100	BRYMA200			
GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030	GSIEKA35530 (7)							
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)			
										KRCS01-1	
	EKMP65VAM			EKMPVAM							

Individual and centralised controls

	BRC1D*	BRC1E*	BRC1H*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			•				
Electrical box KJB111A	•	•	•				
Electrical box KJB212A(A) (1)	•	•		•	•		
Electrical box KJB311A(A)						•	
Electrical box KJB411AA							•

(1) 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 Chiller Manager

		Intelligent  Manager
Differential Pressure Sensor 4-20 mA 0-160 kPa	EKQDP2M016	•
Differential Pressure Sensor 4-20 mA 0-250 kPa	EKQDP2M020	•
Differential Pressure Sensor 4-20 mA 0-400 kPa	EKQDP2M040	•
Differential Pressure Sensor 4-20 mA 0-600 kPa	EKQDP2M060	•
ModBus RTU communication module	EKCM200J	•
BACnet IP communication module	EKCMBACIP	•

Intelligent Touch Manager - DCM601A51

			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/O modules

I/O module type	Model code	Specifications	N° of contacts
Di	750-400	No-voltage contact input	2
	750-432	Contact rating: 24 V DC / 4.5 mA*	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	Rated at 4 to 20 mA: 12-bit resolution	2
	750-455		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	Rated at 4 to 20 mA: 12-bit resolution	2
	750-555		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	Pt 100/RTD	2
	750-460		4
	750-461/000-003	Pt 1000/RTD	2
	750-460/000-003		4
	50-461/000-004	Ni 100/RTD	2
	750-461/000-005	Ni1000 TK6180/RTD	2
	750-460/000-005		4
Pi	750-638	Minimum pulse width: 1 ms	2

(1) This connector must be attached to a communications unit that is connected to the RS485 port (2-pin) of the iTM unit.

(2) To connect intelligent Touch Manager to the Daikin Cloud Service, the IoT gateway (EU:SB5000072) and AC/DC converter (999175A) is needed.

We're here to help you!
Online and offline

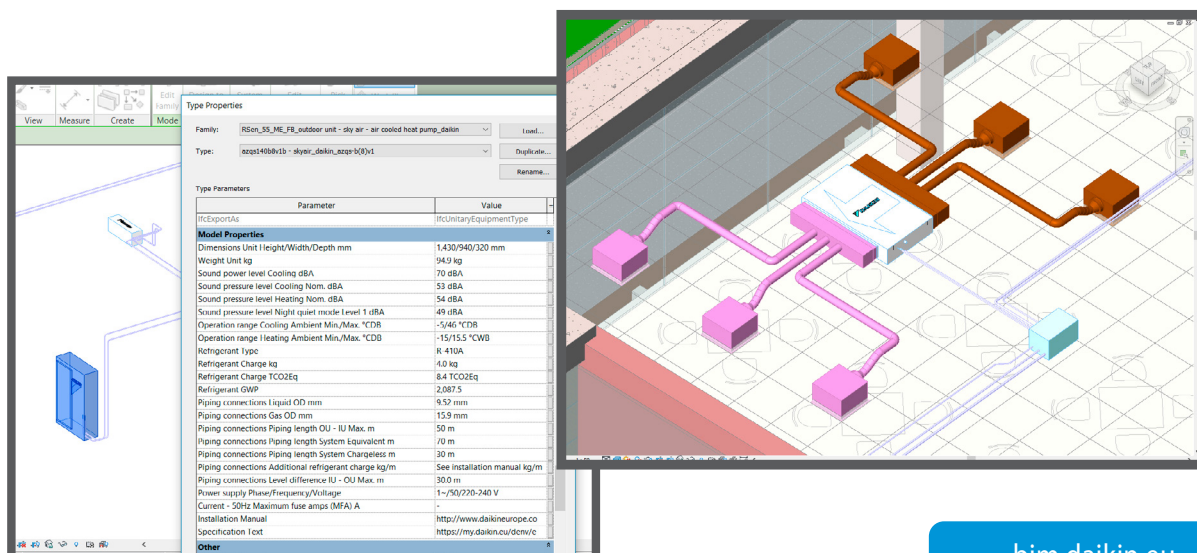
Online and offline
VRV selection software



Business portal via mobile or desktop

my.daikin.eu

Full BIM object library available



bim.daikin.eu

Tools

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Literature overview

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Reference catalogue
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VRV IV S-series
Main benefits, application examples and specs of VRV IV S-series product range

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VRV IV i-series
Main benefits, application examples and specs of VRV IV i-series product range

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Water-to-air heat pump
Detailed info on VRV IV W-series, application examples, technical system design background

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VRV S-Series
VRV 5
Main benefits and specs of VRV 5

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Clear installer benefits of VRV replacement technology

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Clear installer benefits why to choose Daikin for infrastructure cooling

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F-gas regulation
Details on the F-gas regulation and how Daikin is prepared for the future HVAC-R market

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Certified Reclaimed refrigerant
L_oP by Daikin
Detailed info on L_oP by Daikin where reclaimed refrigerant is reused

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Product flyers:



Mini Sky Air Alpha-series
RZAG-A mini Sky Air Alpha-series
Main benefits and specs of RZAG-A series

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Low height Sky Air Alpha-series
RZAG-N* Sky Air Alpha-series
Main benefits and specs of the low height RZAG-N*

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Low height large Sky Air Advance-series
RZA-D Sky Air Advance-series
Main benefits and specs of the low height RZA-D* series

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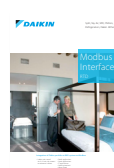
VRV IV S-series
Mini VRV L_oP by Daikin
Main benefits and specs of RXYSQ-TV9/TY9 series with reclaimed refrigerant

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Madoka
Detailed info on BRC1H* remote control

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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

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Ventilation Catalogue
Detailed info on Ventilation products

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for your customers

Solutions catalogues:



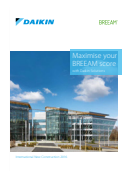
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Daikin offers solutions for commercial applications

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Green Building Solutions
Clear building owner/investor benefits why to choose Daikin for a green building, with emphasis on BREEAM

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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 benefits why to choose Daikin for a hotel

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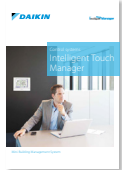
Reference books:



Success Case study
Vandervalk hotel case In depth info on the VRV total solution at a Vandervalk hotel

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Intelligent Touch Manager
Detailed benefits of Intelligent Touch Manager

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Intelligent Tablet Controller
Detailed benefits of Intelligent Tablet Controller

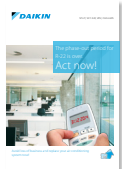
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Daikin Cloud Service
Details on the Daikin Cloud connection

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Focus topics:



Replacement technology
Clear building owner/investor benefits of replacement technology

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Technical documentation:

Download all technical documentation such as engineering data-books, selection software, installation and operation manuals and service manuals directly from our business portal: my.daikin.eu

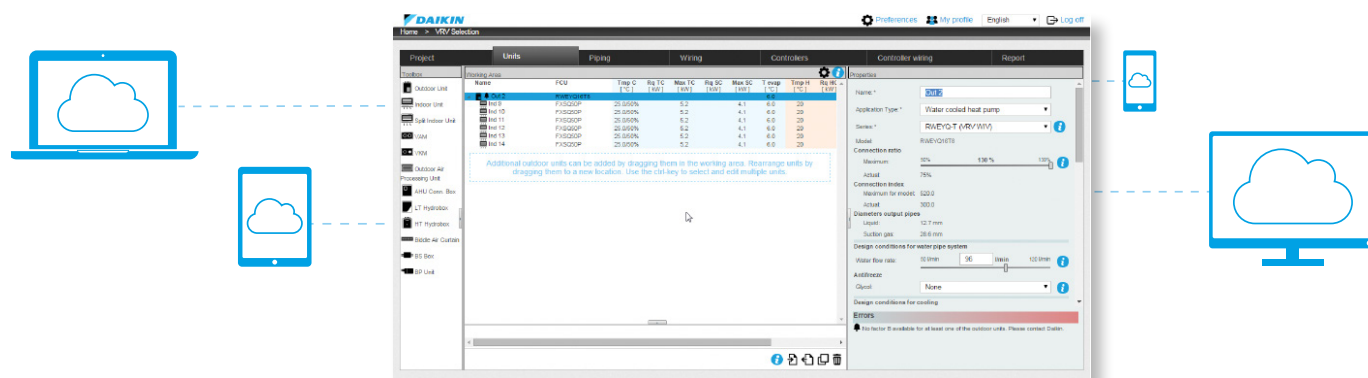
Supporting tools, software and apps

[www.daikineurope.com/
support-and-manuals/
software-downloads](http://www.daikineurope.com/support-and-manuals/software-downloads)

Web based Xpress selection software

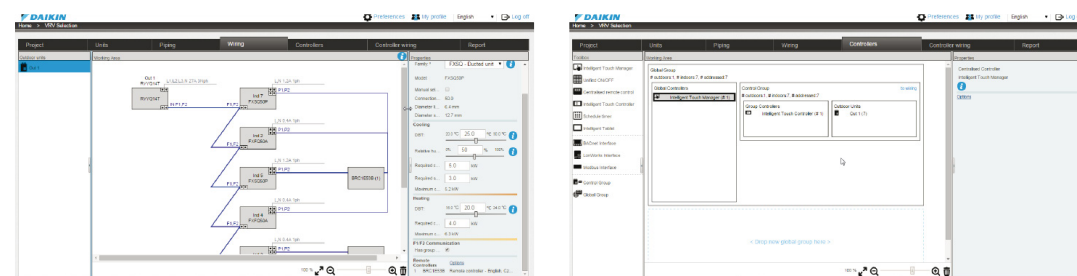
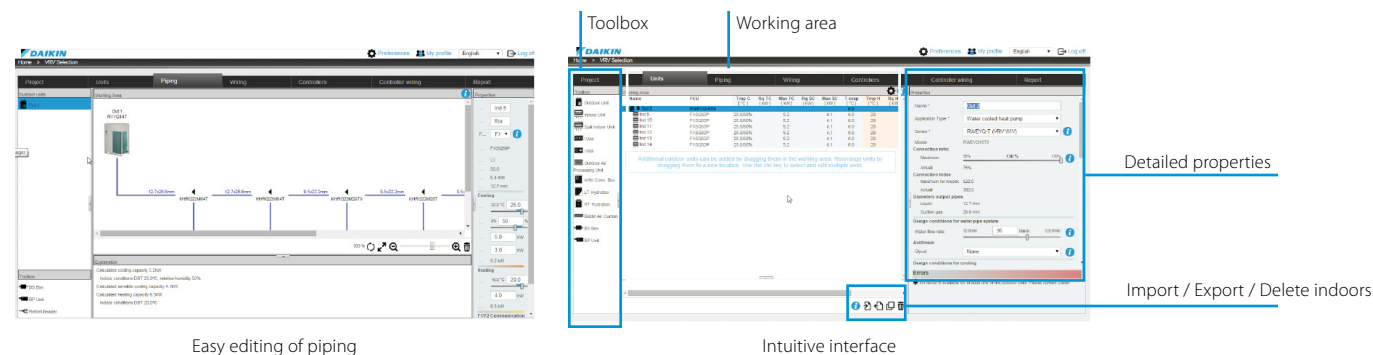
Making selection easy, anytime, anywhere

- › 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



Easy selection, anytime, anywhere

Main functions

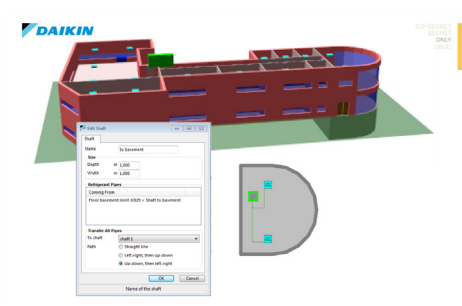


Other selection software

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.

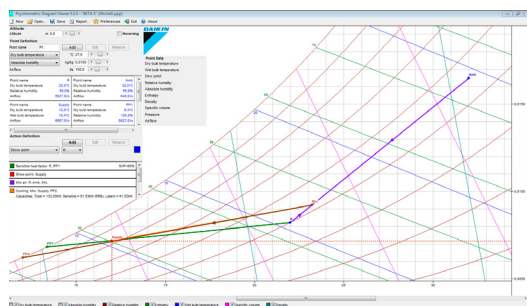
- › Accurate heat load calculation
- › Precise selection based on peak loads
- › Energy consumption indication



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:

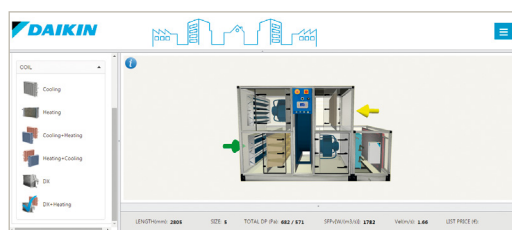
- › Determines size of electrical heaters
- › Visualisation of psychrometric chart
- › Visualisation of selected configuration
- › Required field settings mentioned in the report



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

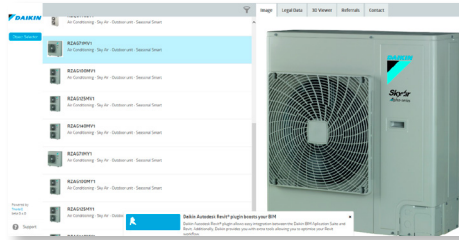
Intelligent touch Manager



Plugins and third-party software tools

Building Information Modelling (BIM) support

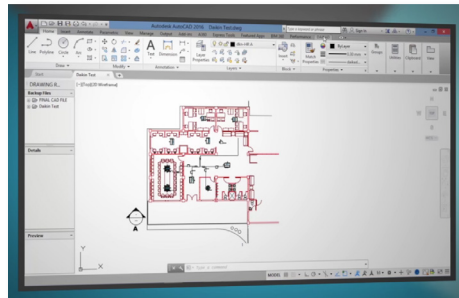
- › BIM improves efficiency of design and build phase
- › Daikin is among the first to supply a full library of BIM objects for its VRV products



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

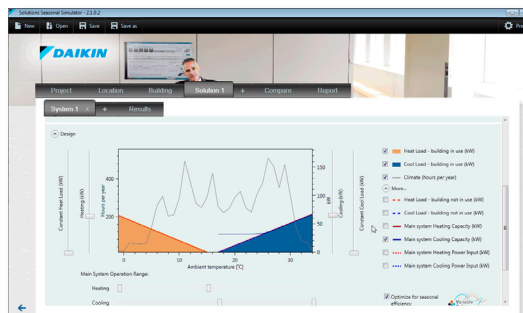


<http://www.daikineurope.com/autocad/index.jsp>

Energy simulation and design aid tools

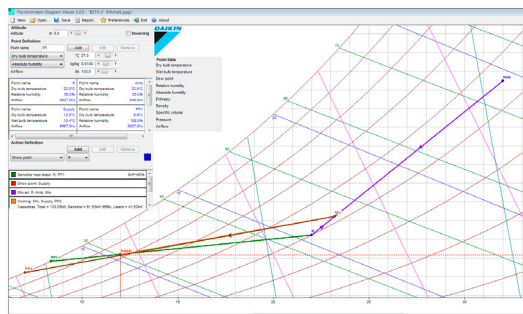
Seasonal simulator

- › 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, CO₂ 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.



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

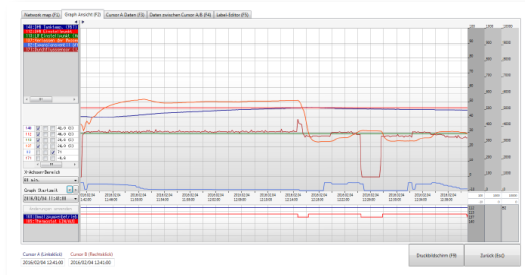
Bluetooth adaptor **NEW**

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

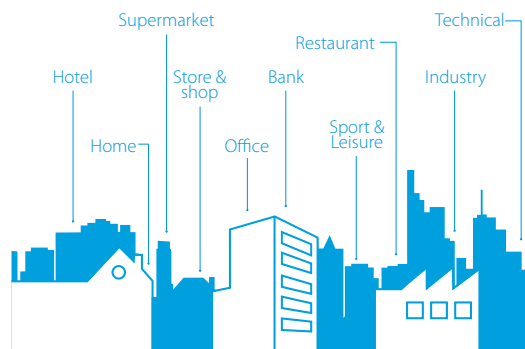
- › Experience our new extranet that thinks with you at my.daikin.eu
- › Find information in seconds via a powerful search
- › Customise the options so you see only info relevant for you
- › Access via mobile device or desktop

my.daikin.eu



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

1987

1991

1998

2003

2004

2005

2006-2007

2008

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

R-410A



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

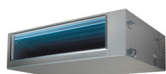
Launch of VRV IV S-series

- › Most compact unit in the market
- › Widest range in the market

2015

Launch of VRV IV i-series

- › The invisible VRV
- › Unique product concept



BLUEEVOLUTION



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

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

2020

VRV 5 S-series

- › Completely redesign unit for R-32 refrigerant
- › Easier to handle and more flexible to install than ever!

2010

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

L∞P
BY DAIKIN



Technical

drawings

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Technical drawings

Outdoor units

RXYSA-AV1 / AY1 221

REYQ-U / REMQ-U / RYYQ-U /
RYMQ-U / RXYQ-U / RXYQQ-U 225

RXYSCQ-TV1 /
RXYSQ-TV9 / TY9 / TY1 227

RDXYQ-T(8) / RKXYQ-T(8) 237

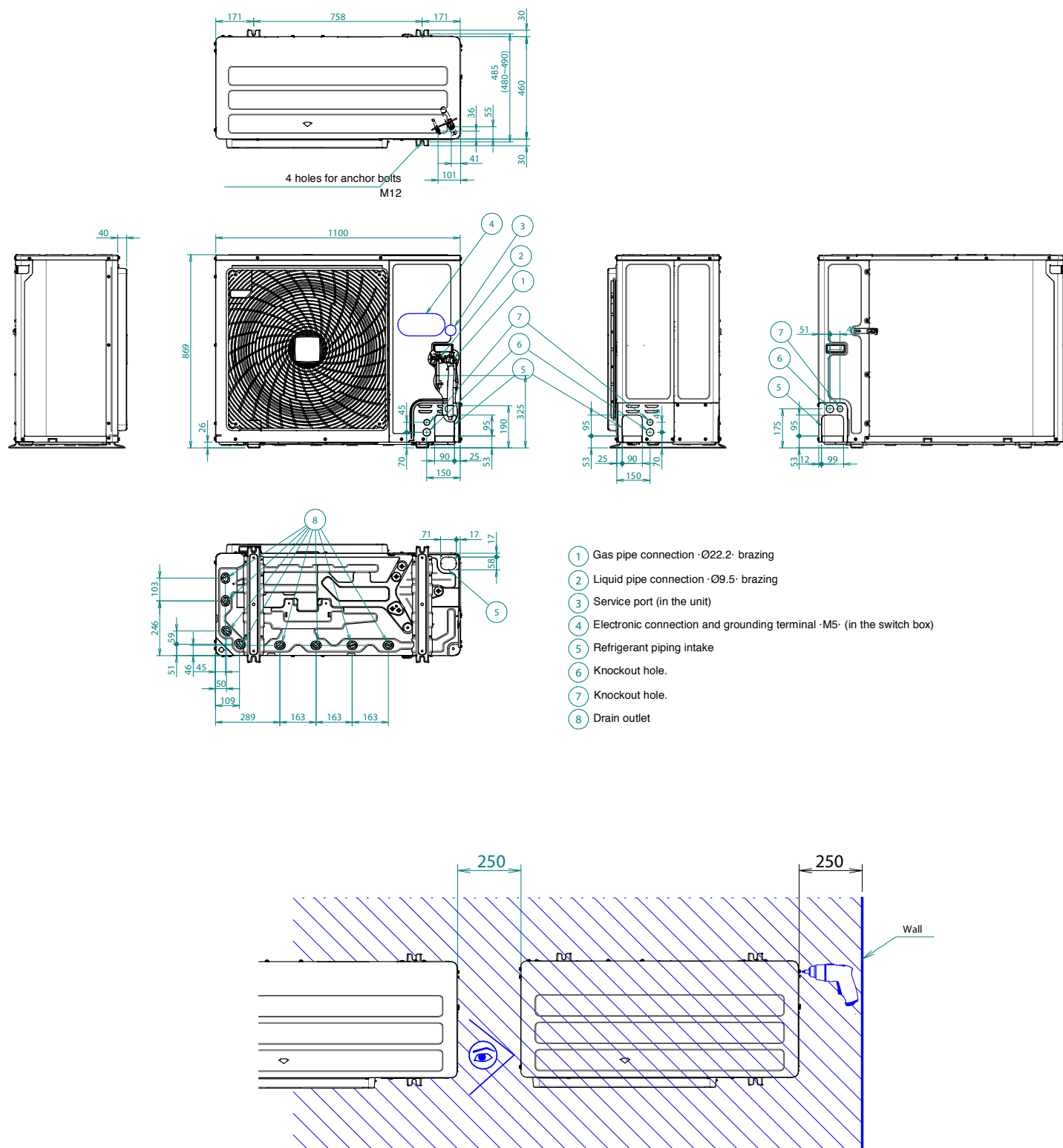
RXMLQ-T - RXYLQ-T 239

RQCEQ-P3 240

RQYQ-P 243

RWEYQ-T9 245





• For optimal serviceability, provide ≥250-mm of free space.
For more installation and service space guidelines, see drawing ·3D069554·.

Single unit () | Single row of units ()**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 layout out does not match with any of the layouts below, contact your dealer.

Single unit () | Single row of units ()

	A~E	Hb Hd Hu	(mm)						
			a	b	c	d	e	e _B	e _D
	B	-		≥ 100					
	A,B,C	-	≥ 100 ⁽¹⁾	≥ 100	≥ 100				
	B,E	-		≥ 100			≥ 1000		≤ 500
	A,B,C,E	-	≥ 150 ⁽¹⁾	≥ 150	≥ 150		≥ 1000		≤ 500
	D	-				≥ 500			
	D,E	-				≥ 500	≥ 1000	≤ 500	
	B,D	Hd>Hu		≥ 100		≥ 500			
		Hd≤Hu		≥ 100		≥ 500			
	B,D,E	Hd>Hu	Hb≤½Hu	≥ 250		≥ 750	≥ 1000	≤ 500	
			½Hu>Hb≤Hu	≥ 250		≥ 1000	≥ 1000	≤ 500	
			Hb>Hu	⊘					
		Hd≤Hu	Hd≤½Hu	≥ 100		≥ 1000	≥ 1000		≤ 500
			½Hu<Hd≤Hu	≥ 200		≥ 1000	≥ 1000		≤ 500
		Hd>Hu	⊘						
	A,B,C	-	≥ 200 ⁽¹⁾	≥ 300	≥ 1000				
	A,B,C,E	-	≥ 200 ⁽¹⁾	≥ 300	≥ 1000		≥ 1000		≤ 500
	D	-				≥ 1000			
	D,E	-				≥ 1000	≥ 1000	≤ 500	
	B,D	Hd>Hu		≥ 300		≥ 1000			
		Hd≤Hu	Hd≤½Hu	≥ 250		≥ 1500			
			½Hu<Hd≤Hu	≥ 300		≥ 1500			
			Hb>Hu	⊘					
	B,D,E	Hd>Hu	Hb≤½Hu	≥ 300		≥ 1000	≥ 1000	≤ 500	
			½Hu<Hb≤Hu	≥ 300		≥ 1250	≥ 1000	≤ 500	
			Hb>Hu	⊘					
		Hd≤Hu	Hd≤½Hu	≥ 250		≥ 1500	≥ 1000		≤ 500
			½Hu<Hd≤Hu	≥ 300		≥ 1500	≥ 1000		≤ 500
		Hd>Hu	⊘						

(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

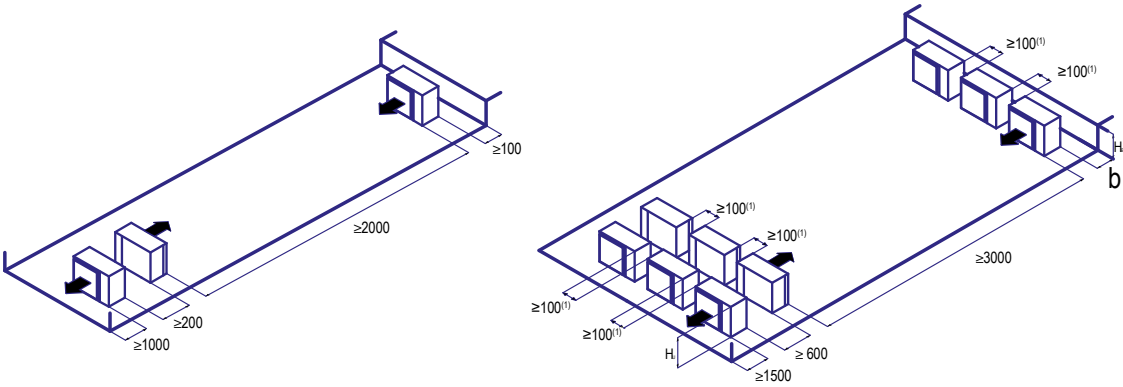
1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction side through the bottom of the unit.

2 Maximum two units can be installed.

⊘ Not allowed

Multiple rows of units ()

Multiple rows of units ()

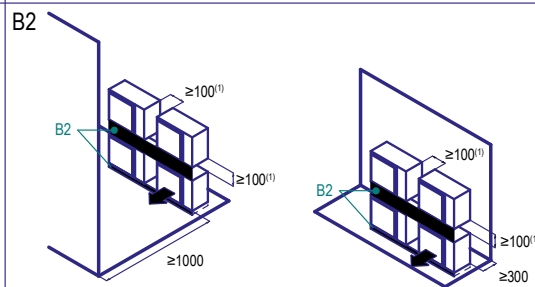
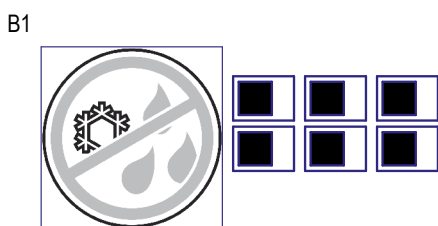
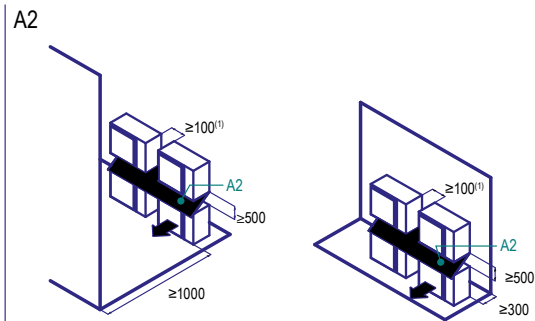
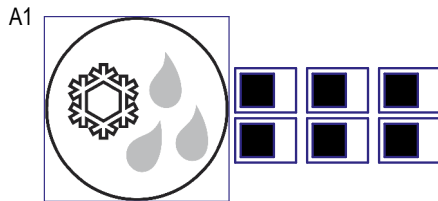


Hb Hu	b (mm)
$Hb \leq \frac{1}{2}Hu$	$b \geq 250$
$\frac{1}{2}Hu < Hb \leq Hu$	$b \geq 300$
$Hb > Hu$	⊘

- (1) For better serviceability, use a distance ≥ 250 mm
⊘ Not allowed

Stacked units (max.2 levels) ()

Stacked units (max.2 levels) ()



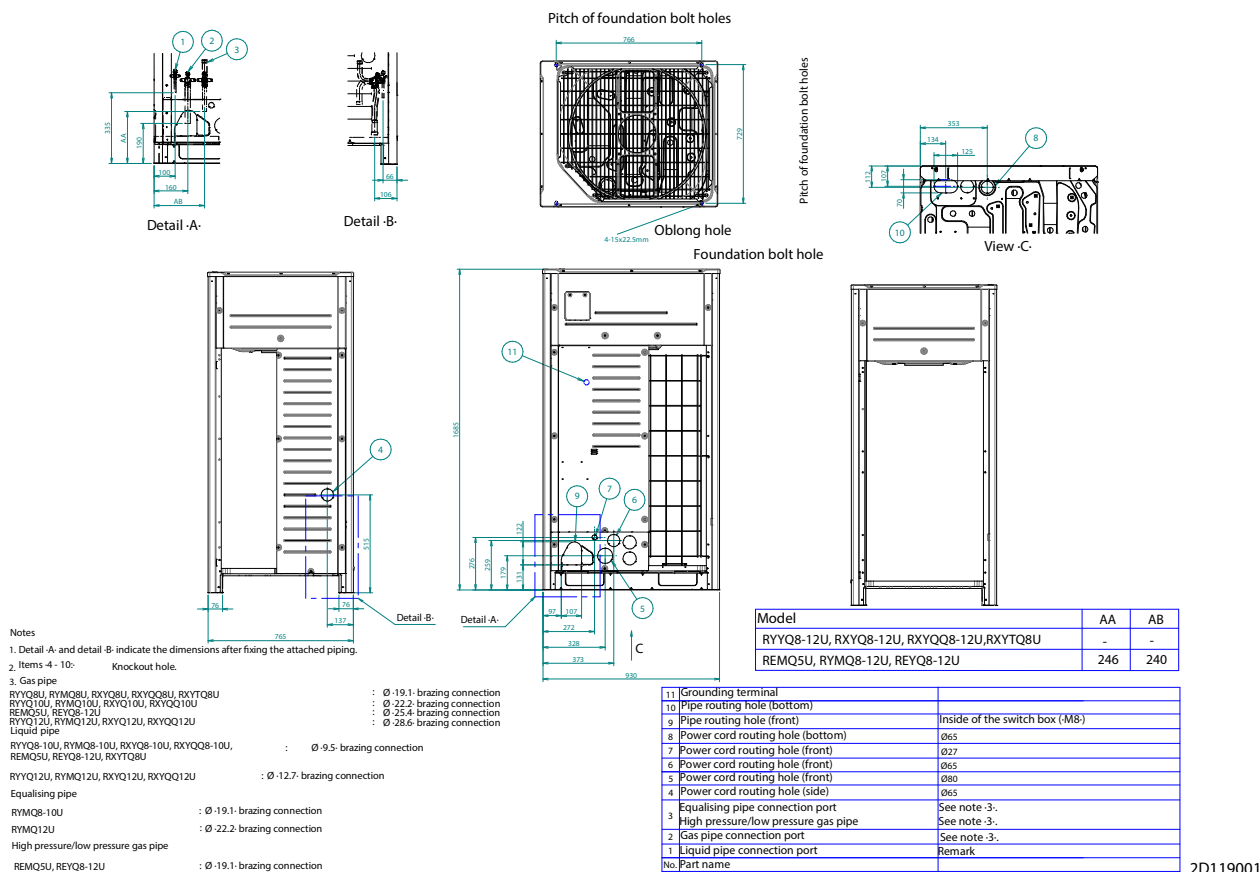
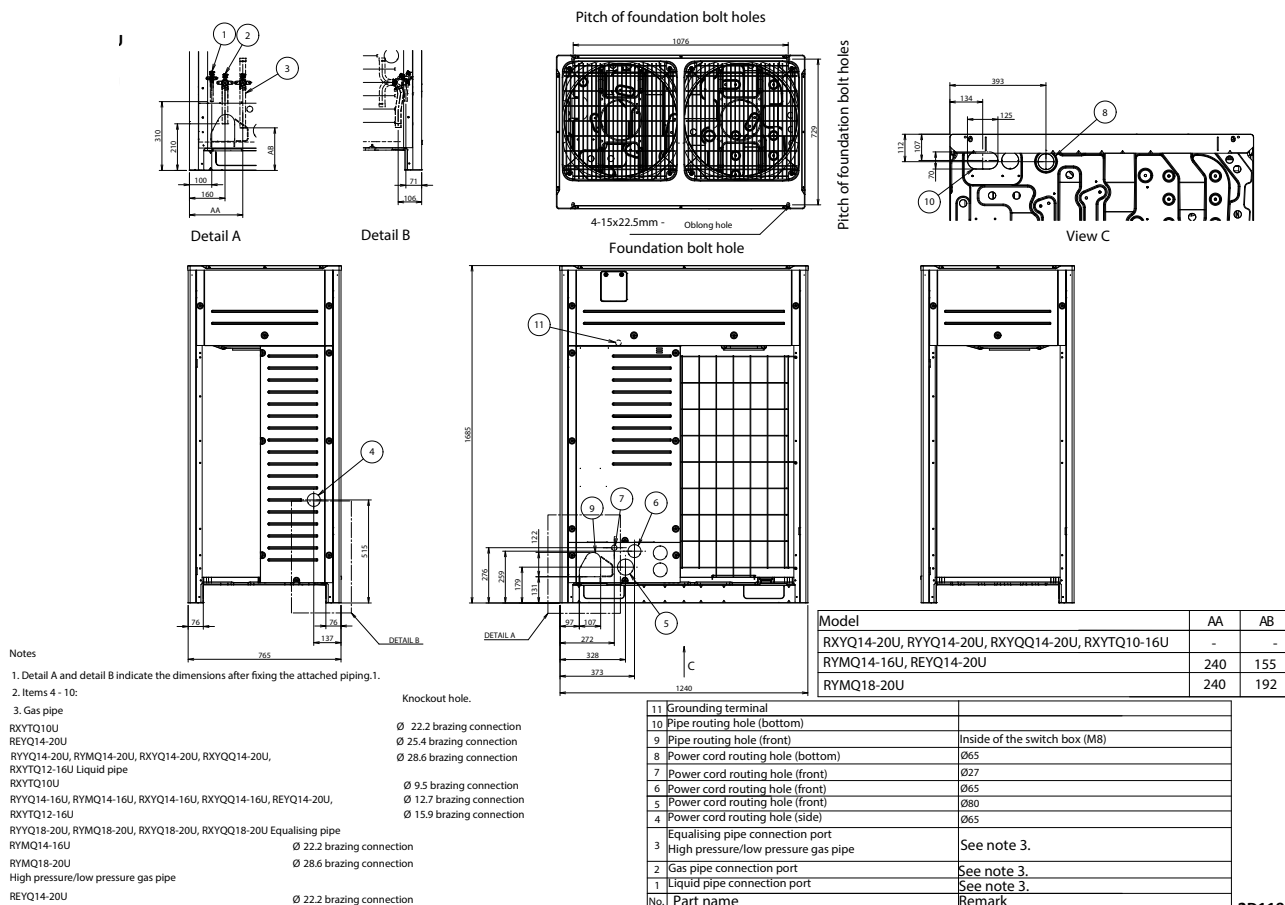
(1) For better serviceability, use a distance ≥ 250 mm

A1=>A2 (A1) If there is danger of drainage dripping and freezing between the upper and lower units...

(A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at the upper unit's bottom plate.

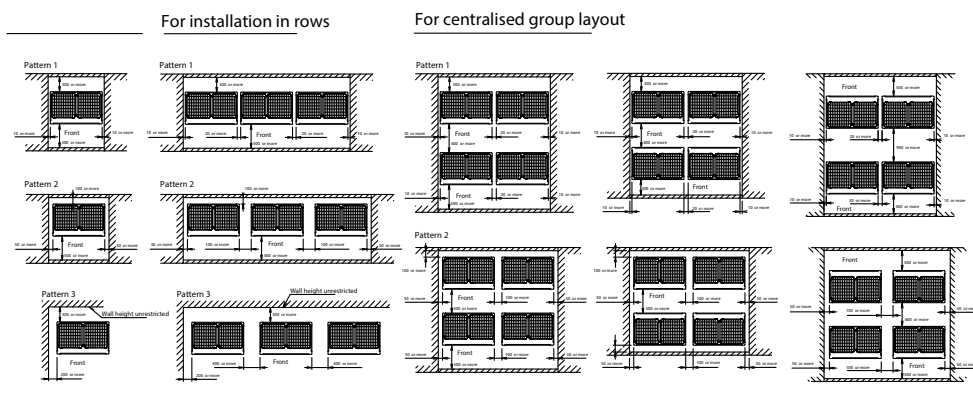
B1=>B2 (B1) If there is no danger of drainage dripping and freezing between the upper and lower units...

(B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.

REMQ5U / REYQ8-12U / RXYQQ8-12U / RXYQ8-12U / RYYQ8-12U / RYMQ8-12U / RXYTQ8UYF**REYQ14-20U / RXYQQ14-20U / RXYQ14-20U / RYYQ14-20U / RYMQ14-20U / RXYTQ10-16UYF**

REM-Q-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:**

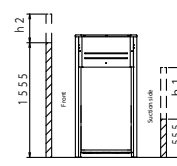
Front: 1500mm

Suction side: 500mm

Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35°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.

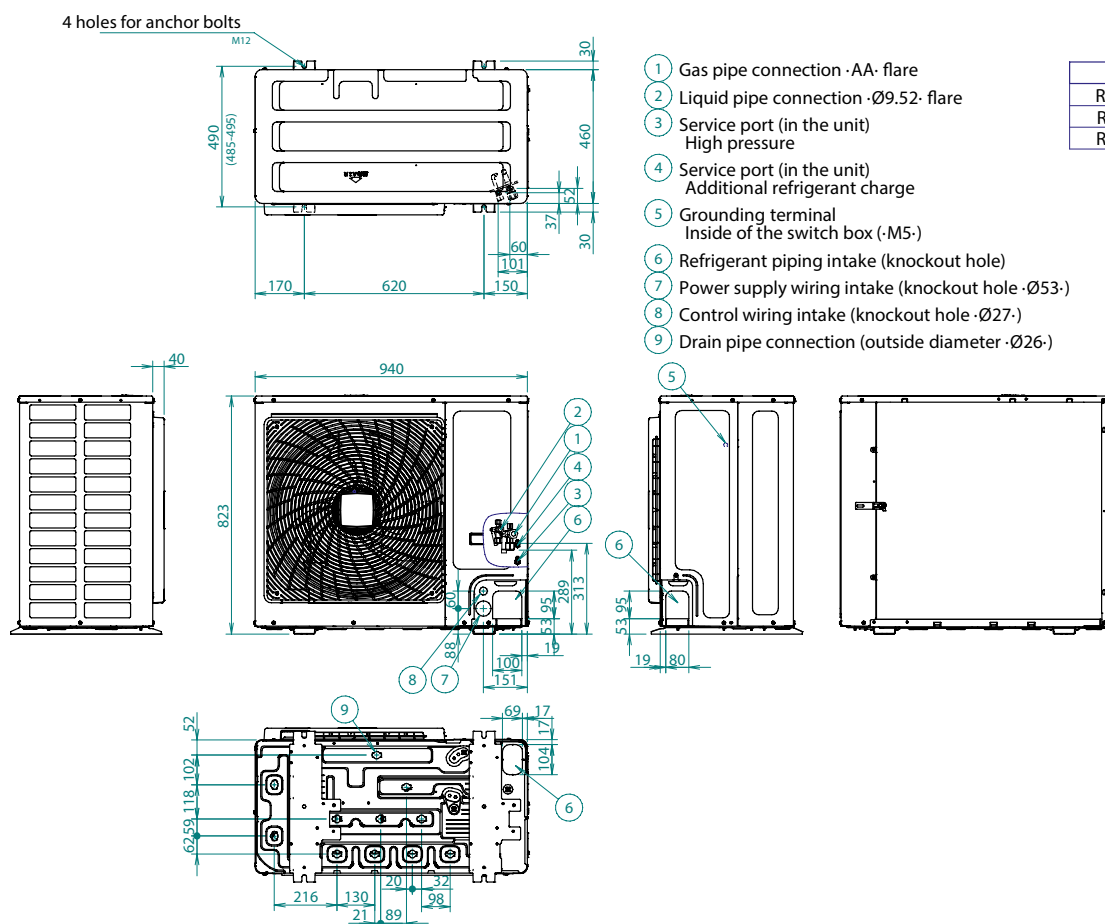
**2. If the walls are higher than mentioned above, then additional service space is needed:**- suction side: service space + $h1/2$ - front side: service space + $h2/2$ **3. When installing the units, select the pattern that best fits the available space.**

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.

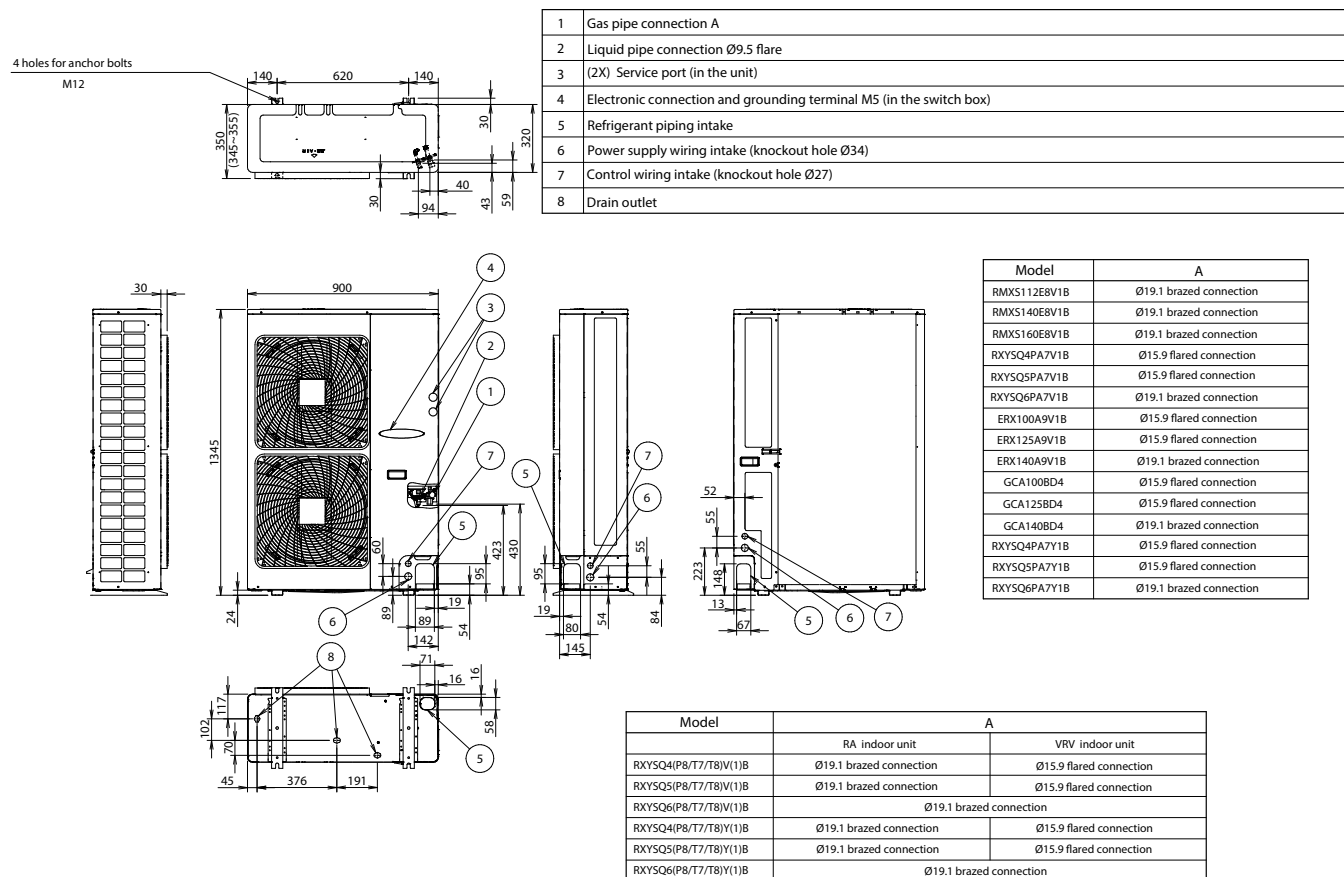
4. Provide sufficient space at the front to connect refrigerant piping (comfortably).

3D118467

RXYSCQ-TV1

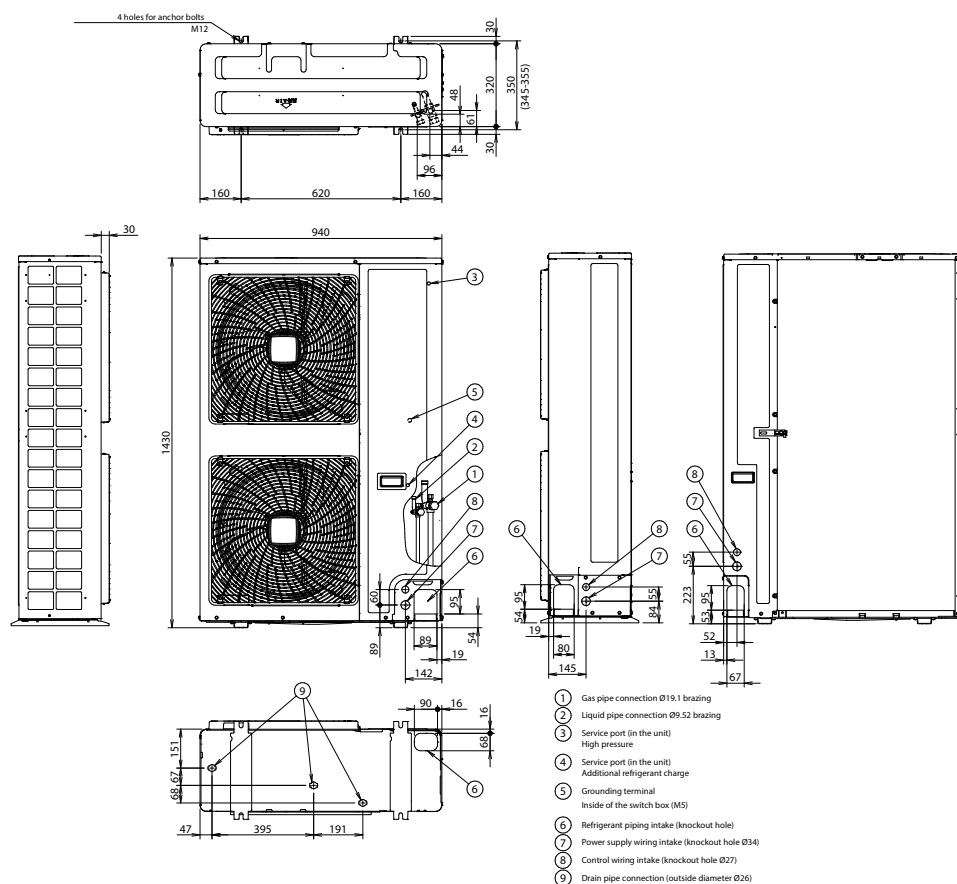
3D098107A

RXYSQ-TV9 / TY9



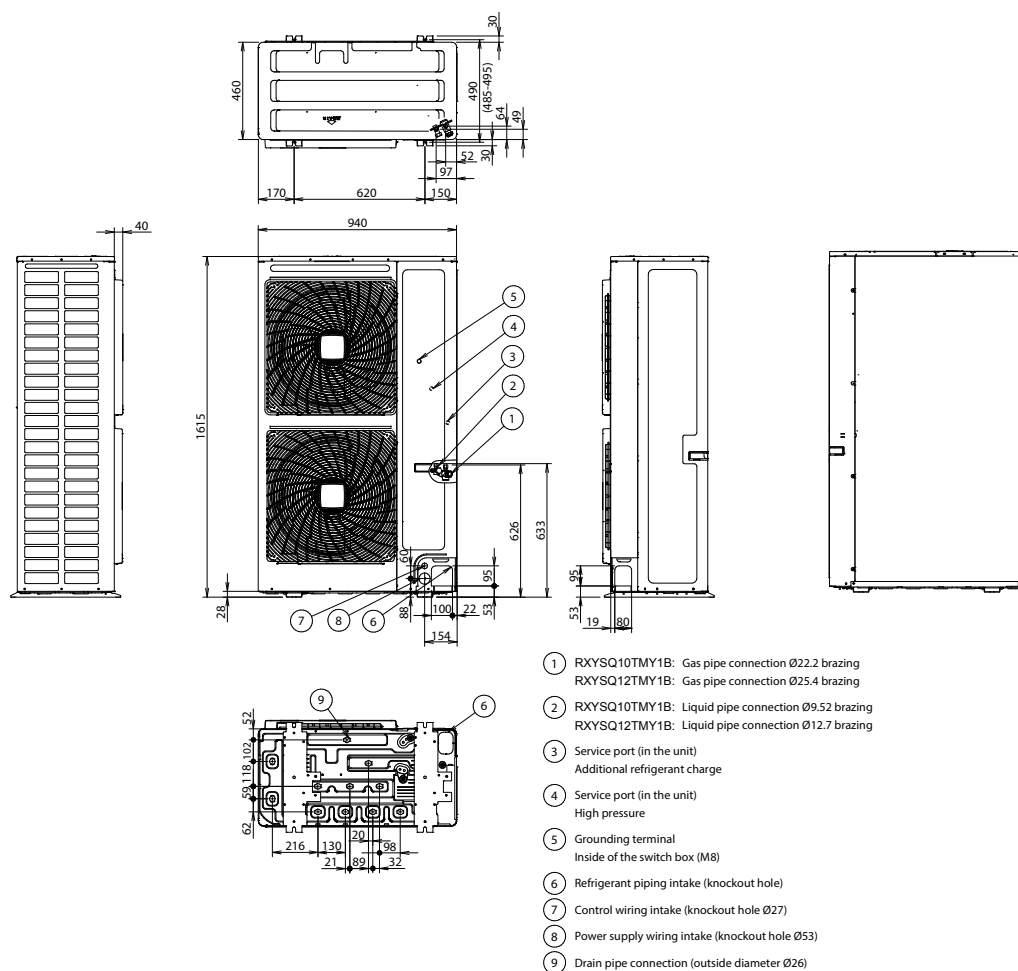
3TW303741E

RXYSQ8TY1



3D098108

RXYSQ10-12TY1



3D098109



RXYSCQ-TV1

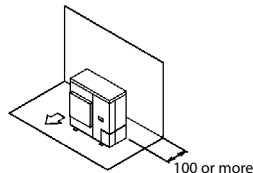
Required instalation space

The unit of values is mm.

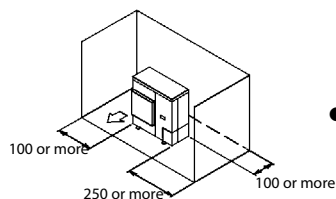
(A) When there are obstacles on suction sides

● No obstacle above

- ① Stand-alone installation
- Obstacle on the suction side only

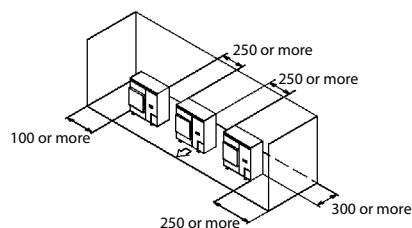


- Obstacle on both sides



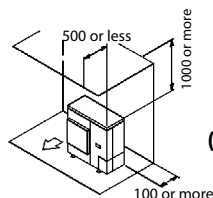
- ② Series installation (2 or more)

- Obstacle on both sides

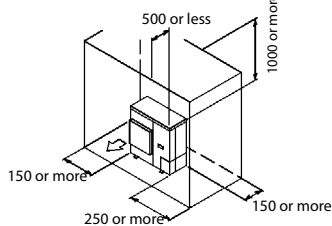


● Obstacle above, too

- ① Stand-alone installation
- Obstacle on the suction side, too

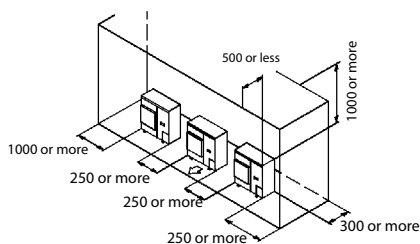


- Obstacle on the suction side, and both sides



- ② Series installation (2 or more)

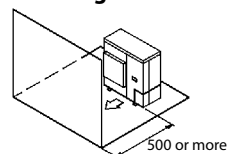
- Obstacle on the suction side, and both sides



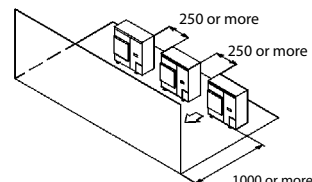
(B) When there are obstacles on discharge sides.

● No obstacle above

- ① Stand-alone installation

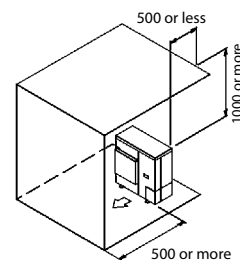


- ② Series installation (2 or more)

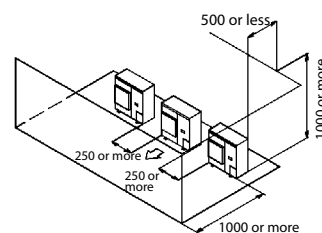


● Obstacle above, too

- ① Stand-alone installation



- ② Series installation (2 or more)



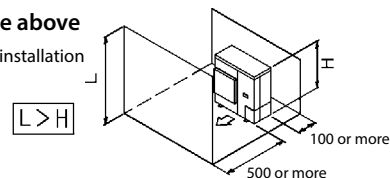
(C) When there are obstacles on both suction and discharge sides.

Pattern 1

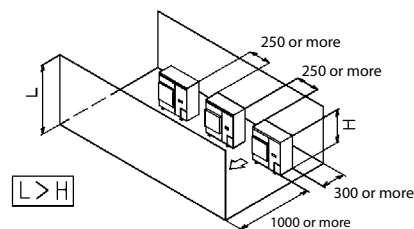
When the obstacles on the discharge side is higher than the unit.
(There is no height limit for obstructions on the intake side.)

● No obstacle above

- ① Stand-alone installation



- ② Series installation (2 or more)



3D089310A



RXYSCQ-TV1

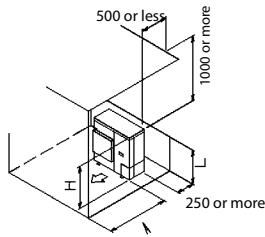
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	750
	$1/2 H < L \leq H$	1000
$H < L$	Set the stand as: $L \leq H$	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

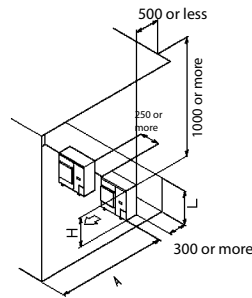


② Series installation (2 or more)

The relations between H, A and L are as follows.

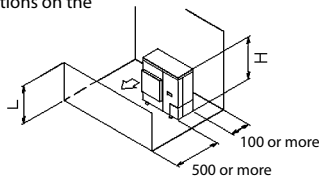
	L	A
$L \leq H$	$0 < L \leq 1/2 H$	1000
	$1/2 H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.



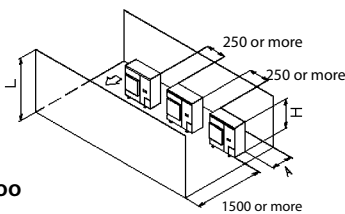
Pattern 2

When the obstacle on the discharge side is lower than the unit:
(There is no height limit for obstructions on the intake side.)



● No obstacle above

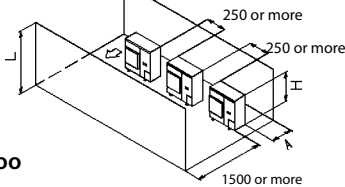
① Stand-alone installation $L > H$



② Series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300



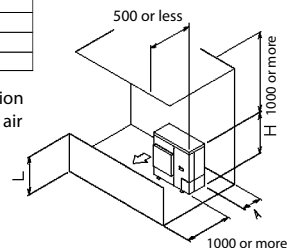
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	100
	$1/2 H < L \leq H$	200
$H < L$	Set the stand as: $L \leq H$	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



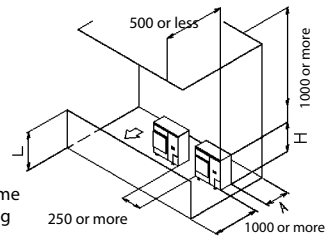
② Series installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300
$H < L$	Set the stand as: $L \leq H$	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

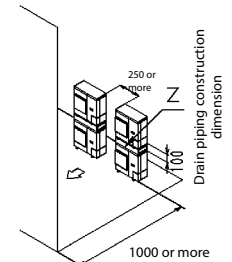


(D) Double-decker installation

① 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.

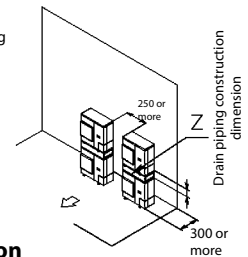
Don't stack more than two units.



② Obstacle on the suction side

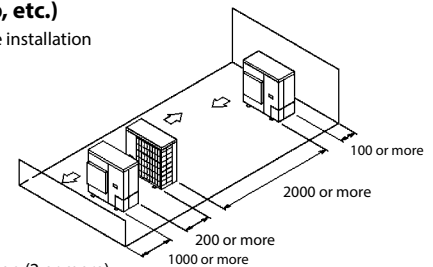
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Don't stack more than two units.



(E) Multiple rows of series installation (on the rooftop, etc.)

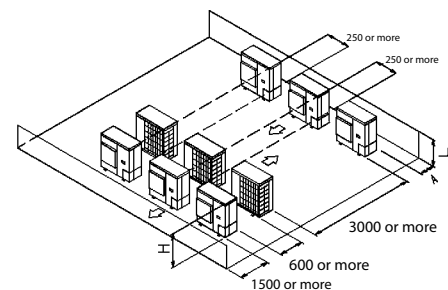
① One row of Stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300
$H < L$	Can not be installed	





RXYSQ-TV9/TY9

Required installation space

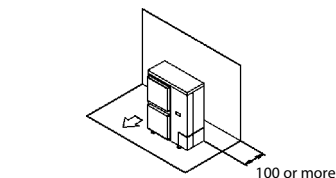
The unit of values is mm.

(A) When there are obstacles on suction sides

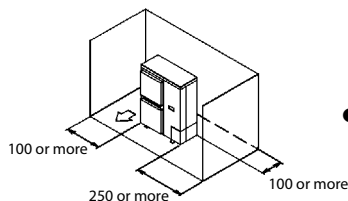
● No obstacle above

① Stand-alone installation

- Obstacle on the suction side only

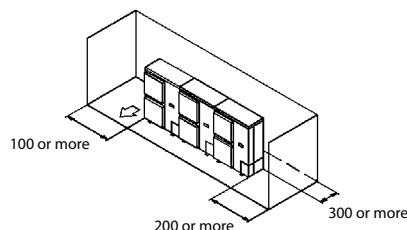


- Obstacle on both sides



② Series installation (2 or more)

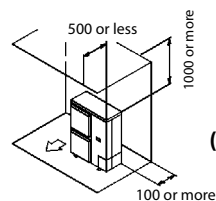
- Obstacle on both sides



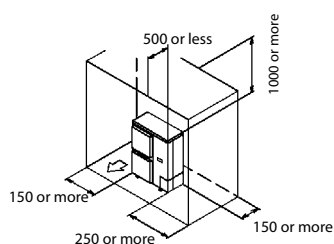
● Obstacle above, too

① Stand-alone installation

- Obstacle on the suction side, too

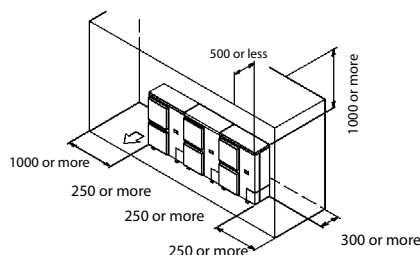


- Obstacle on the suction side, and both sides



② Series installation (2 or more)

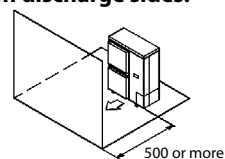
- Obstacle on the suction side, and both sides



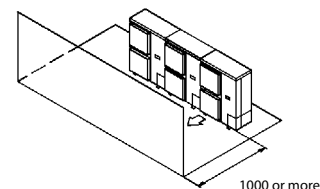
(B) When there are obstacles on discharge sides.

● No obstacle above

① Stand-alone installation

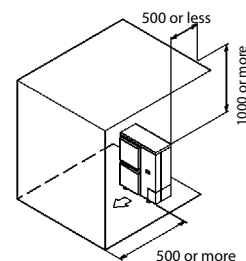


② Series installation (2 or more)

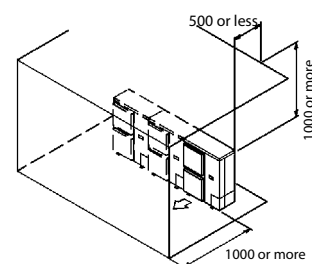


● Obstacle above, too

① Stand-alone installation



② Series installation (2 or more)



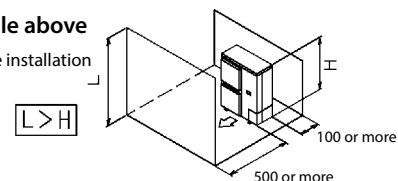
(C) When there are obstacles on both suction and discharge sides.

Pattern 1

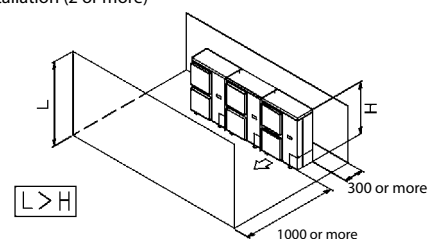
When the obstacles on the discharge side is higher than the unit.
(There is no height limit for obstructions on the intake side.)

● No obstacle above

① Stand-alone installation



② Series installation (2 or more)



3D045696D



RXYSQ-TV9/TY9

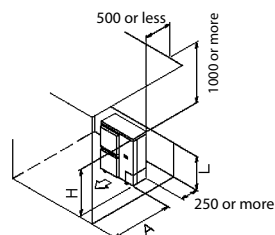
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	750
	$1/2 H < L \leq H$	1000
$H < L$	Set the stand as: $L \leq H$	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

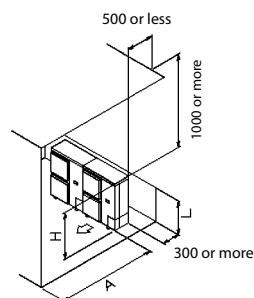


② Series installation (2 or more)

The relations between H, A and L are as follows.

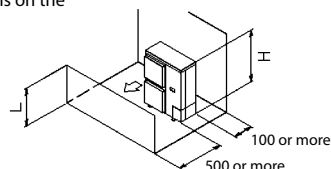
	L	A
$L \leq H$	$0 < L \leq 1/2 H$	1000
	$1/2 H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$	

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

When the obstacle on the discharge side is lower than the unit:
(There is no height limit for obstructions on the intake side.)



● No obstacle above

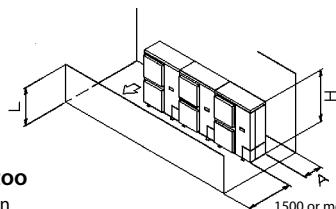
① Stand-alone installation

$L \leq H$

② Series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300



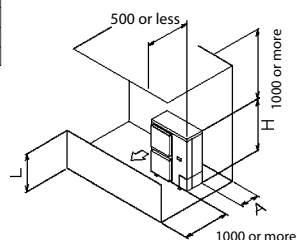
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	100
	$1/2 H < L \leq H$	200
$H < L$	Set the stand as: $L \leq H$	

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.

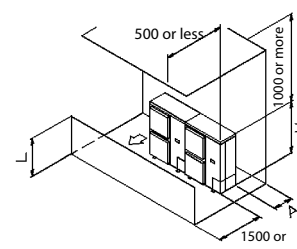
	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300
$H < L$	Set the stand as: $L \leq H$	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

(D) Double-decker installation

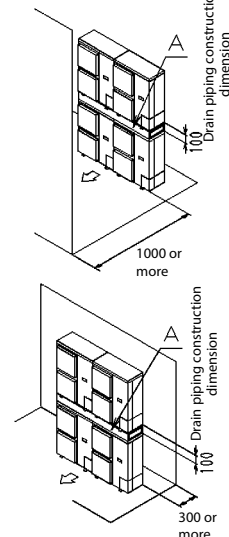
① Obstacle on the discharge side

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Don't stack more than two units.



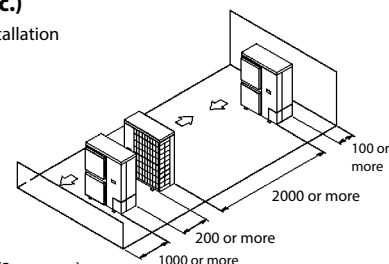
② Obstacle on the suction side

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Don't stack more than two units.



(E) Multiple rows of series installation (on the rooftop, etc.)

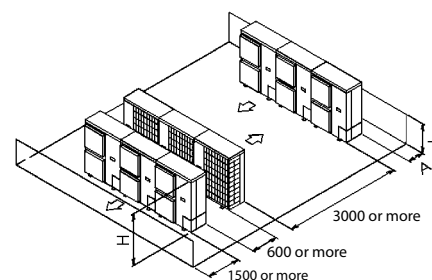
① One row of Stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300
$H < L$	Can not be installed	



RXYSQ-8TY1

Required installation space

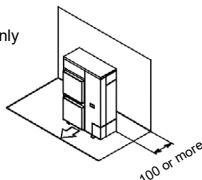
The unit of these values is mm.

1. Where there is an obstacle on the suction side:

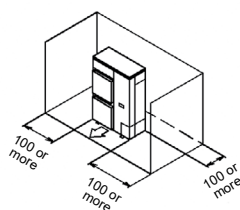
- (a) No obstacle above

- (1) Stand-alone installation

- Obstacle on the suction side only

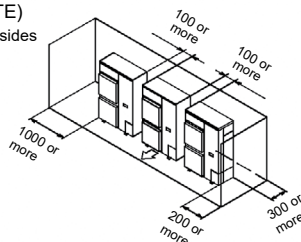


- Obstacle on both sides



- (2) Series installation
(2 or more) (NOTE)

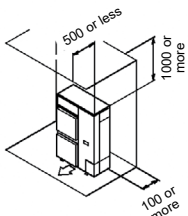
- Obstacle on both sides



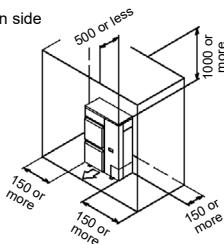
- (b) Obstacle above, too

- (1) Stand-alone installation

- Obstacle on the suction side, too

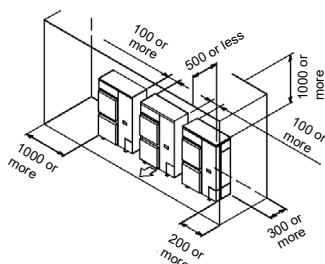


- Obstacle on the suction side and both sides



- (2) Series installation
(2 or more) (NOTE)

- Obstacle on the suction side and both sides



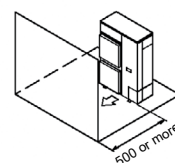
NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

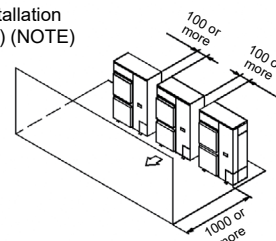
2. Where there is an obstacle on the discharge side:

- (a) No obstacle above

- (1) Stand-alone installation

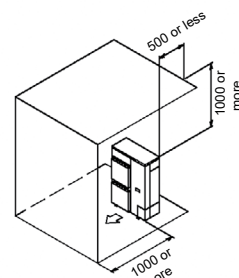


- (2)Series installation
(2 or more) (NOTE)

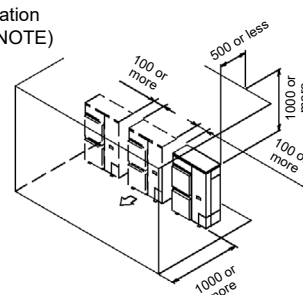


- (b) Obstacle above, too

- (1) Stand-alone installation



- (2) Series installation
(2 or more) (NOTE)



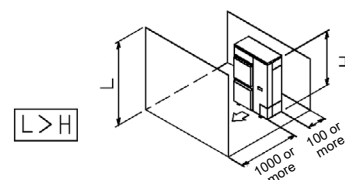
3. Where there are obstacles on both suction and discharge sides:

Pattern 1

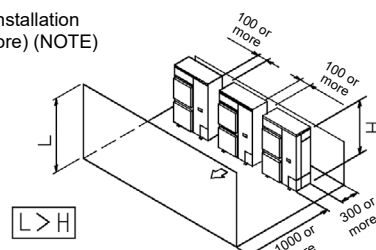
Where the obstacle on the discharge side is higher than the unit:
(There is no height limit for obstructions on the intake side)

- (a) No obstacle above

- (1) Stand-alone installation



- (2)Series installation
(2 or more) (NOTE)





RXYSQ10-12TY1

Required installation space

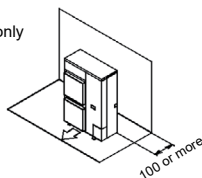
The unit of these values is mm.

1. Where there is an obstacle on the suction side:

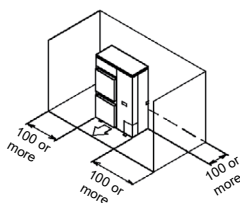
(a) No obstacle above

(1) Stand-alone installation

- Obstacle on the suction side only

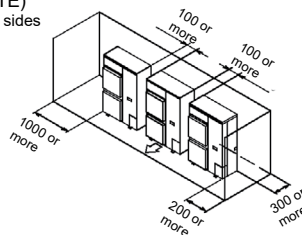


- Obstacle on both sides



(2) Series installation (2 or more) (NOTE)

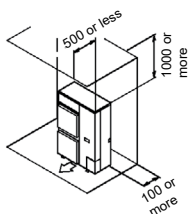
- Obstacle on both sides



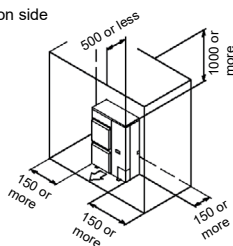
(b) Obstacle above, too

(1) Stand-alone installation

- Obstacle on the suction side, too

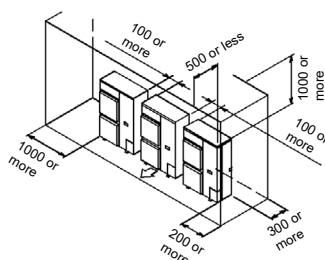


- Obstacle on the suction side and both sides



(2) Series installation (2 or more) (NOTE)

- Obstacle on the suction side and both sides



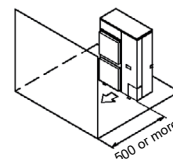
NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

2. Where there is an obstacle on the discharge side:

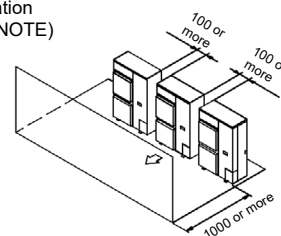
(a) No obstacle above

(1) Stand-alone installation



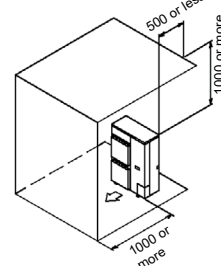
(2) Series installation

(2 or more) (NOTE)



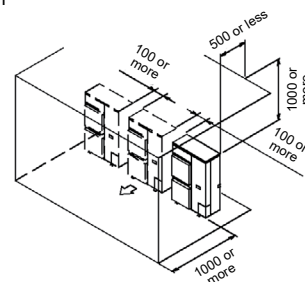
(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation

(2 or more) (NOTE)



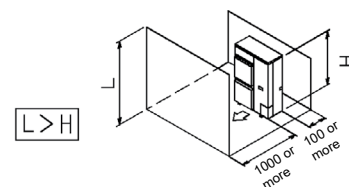
3. Where there are obstacles on both suction and discharge sides:

Pattern 1

Where the obstacle on the discharge side is higher than the unit:
(There is no height limit for obstructions on the intake side)

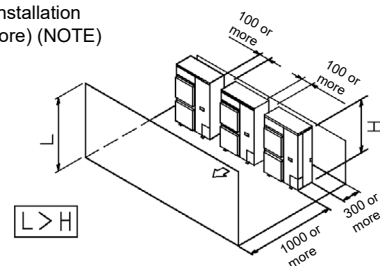
(a) No obstacle above

(1) Stand-alone installation



(2) Series installation

(2 or more) (NOTE)



3D083122L



RXYSQ10-12TY1

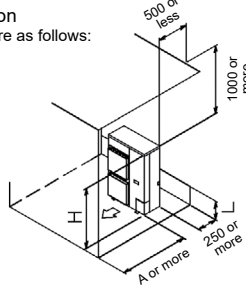
(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	1000
	$1/2 H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



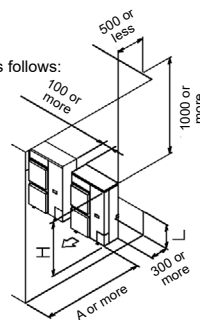
(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	1000
	$1/2 H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$.	

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

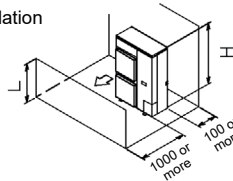
Where the obstacle on the discharge side is lower than the unit:

(There is no height limit for obstructions on the intake side)

(a) No obstacle above

(1) Stand-alone installation

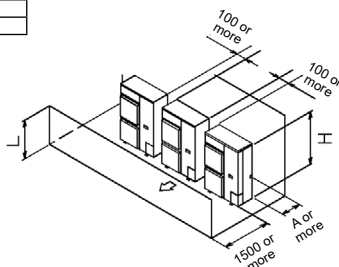
$L \leq H$



(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300



(b) Obstacle above, too

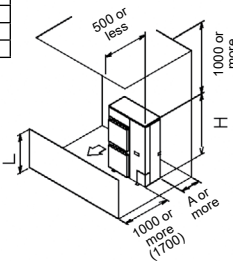
(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	100
	$1/2 H < L \leq H$	200
$H < L$	Set the stand as: $L \leq H$.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceeds the figure in the (), then it's no need to set the stand.

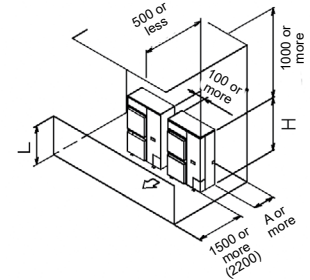


(2) Series installation (NOTE)

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300
$H < L$	Set the stand as: $L \leq H$.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed. Only two units can be installed for this series. If the distance exceeds the figure in the (), then it's no need to set the stand.



4. Double-decker installation

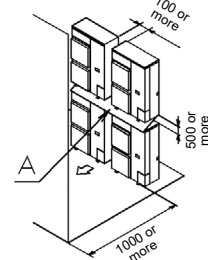
(a) Obstacle on the discharge side (NOTE).

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 units.

Set the board (field supply) as the detail A between two units to prevent the drainage from freezing.

Leave the enough space between the layer one and the board.



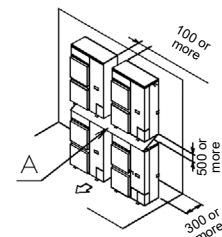
(b) Obstacle on the suction side (NOTE).

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 units.

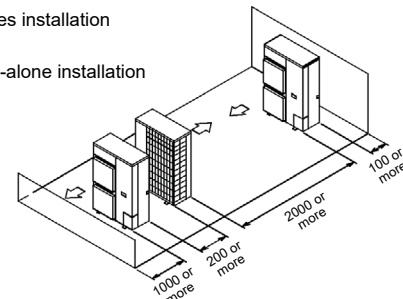
Set the board (field supply) as the detail A between two units to prevent the drainage from freezing.

Leave the enough space between the layer one and the board.



5. Multiple rows of series installation (on the rooftop, etc.)

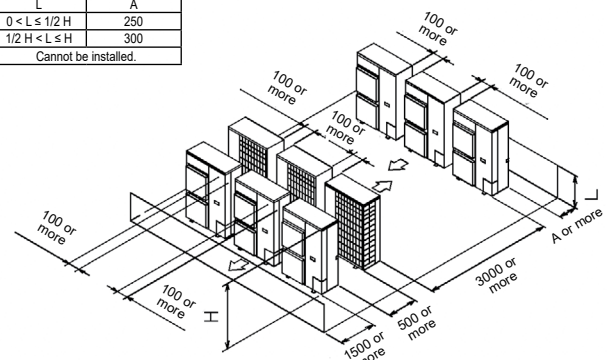
(a) One row of stand-alone installation



(b) Rows of series installation (2 or more)

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	250
	$1/2 H < L \leq H$	300
$H < L$	Cannot be installed.	



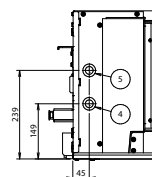
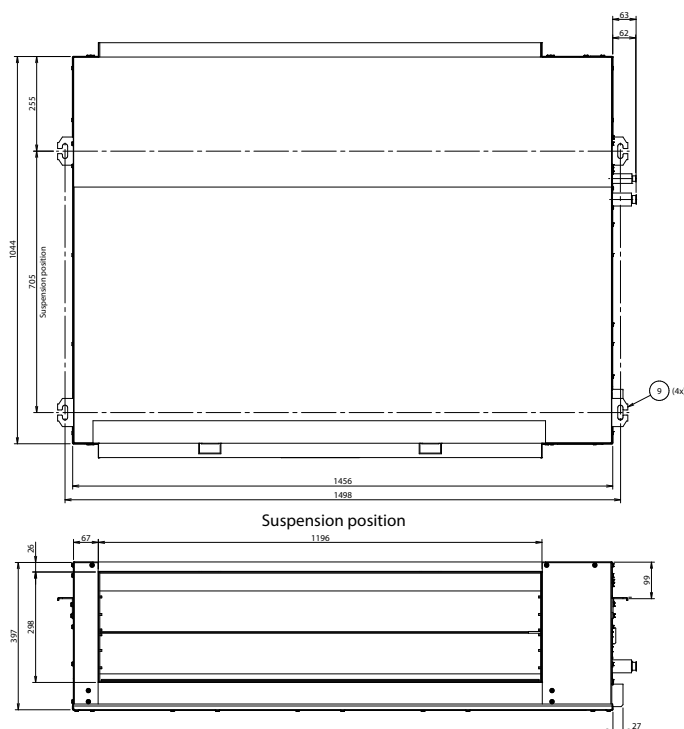
NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

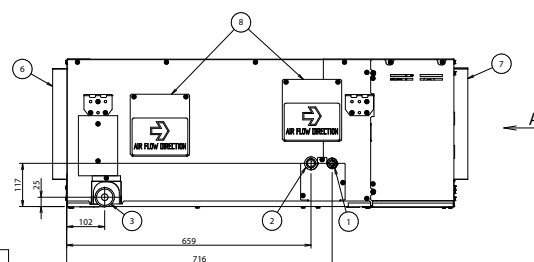
3D083122L



RDXYQ-T(8)



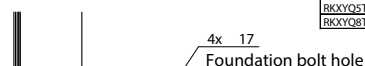
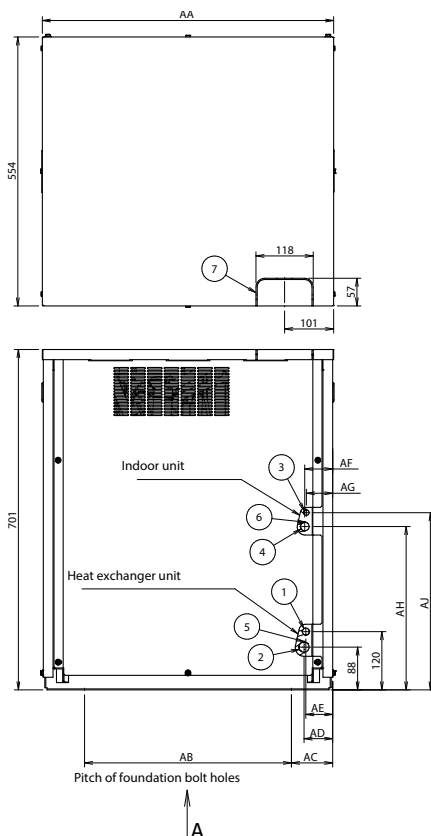
View A



9	Hook	
8	Service door	
7	Air discharge side	
6	Air suction side	
5	Wiring intake (low voltage wiring)	Transmission wiring connection
4	Wiring intake (high voltage wiring)	Power supply connection
3	Drain outlet	VP25
2	Gas pipe connection port	Ø 19.1 brazing connection
1	Liquid pipe connection port	Ø 12.7 brazing connection
No.	Part name	Remark

2D112002

RKXYQ-T(8)



View A

Model	AA	AB	AC	AD	AE	AF	AG	AH	AJ
RKXYQST	600	426	85	59	55	57	54	337	365
RKXYQ8T	760	600	78	55	52	55	52	197	222

Notes

1. Indoor unit

RKXYQST: Ø 15.9 brazing connection
RKXYQ8T: Ø 19.1 brazing connection

2. Heat exchanger unit

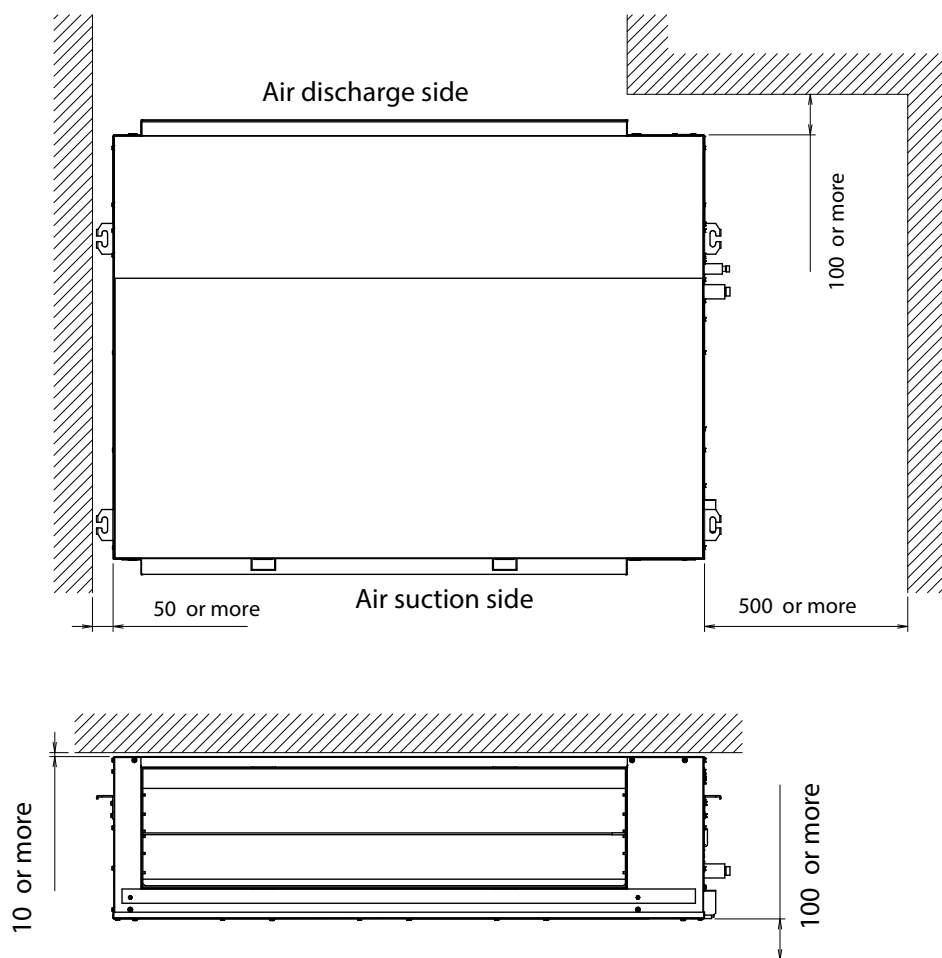
RKXYQST: Ø 19.1 brazing connection
RKXYQ8T: Ø 22.2 brazing connection

8	Handle	Knockout hole.
7	Pipe routing hole	
6	Wiring intake (low voltage wiring)	Transmission wiring connection
5	Wiring intake (high voltage wiring)	Power supply connection
4	Gas pipe connection port	See note 1.
3	Liquid pipe connection port	Ø 9.5 brazing connection
2	Gas pipe connection port	See note 2.
1	Liquid pipe connection port	Ø 12.7 brazing connection
No.	Part name	Remark

3D098827A

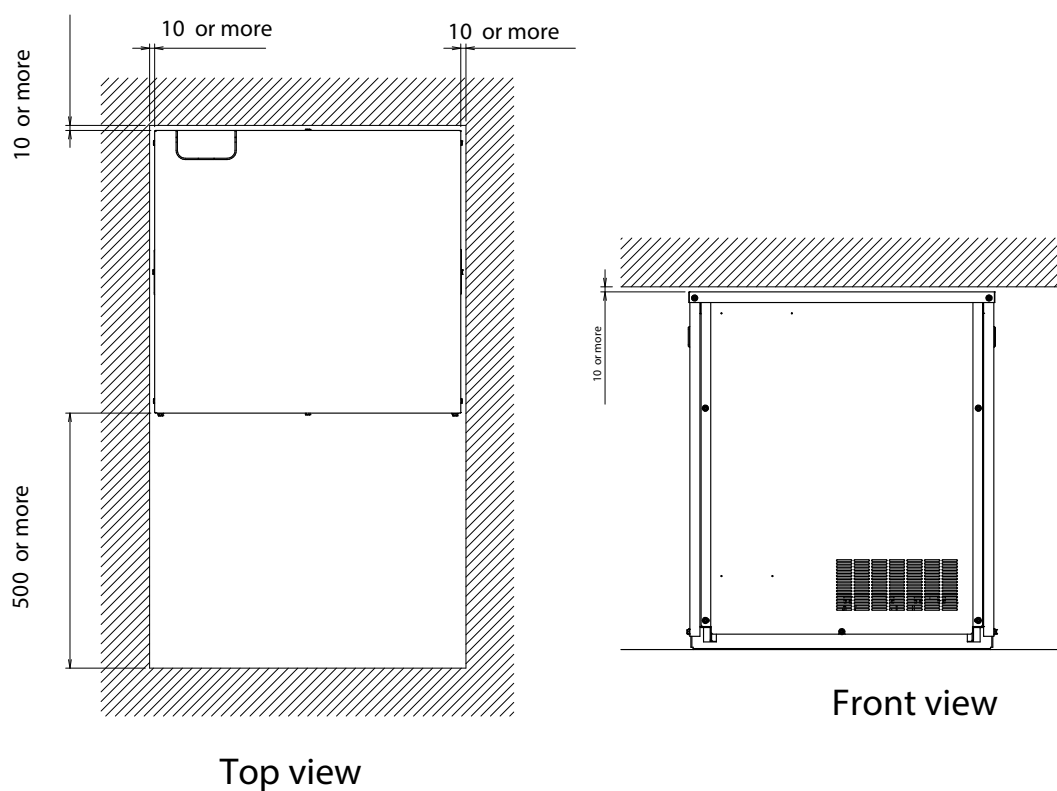


RDXYQ-T(8)



3D098834

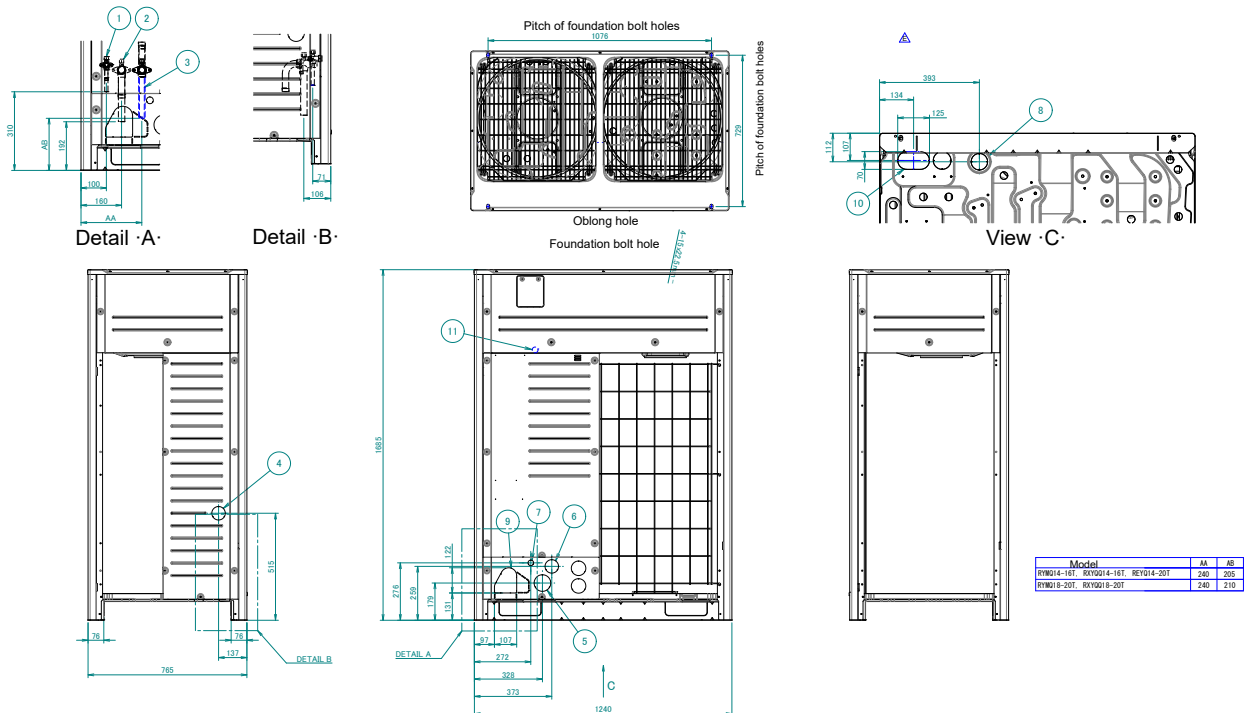
RKXYQ-T(8)



3D098835



RXMLQ-T - RXYLQ-T



Notes

- Detail - A - and detail - B - indicate the dimensions after fixing the attached piping.
- Items 4 - 10 - Knockout hole.

3. Gas pipe

RXMLQ8T

RXYQ10T, RXYLQ10T

REYQ14-20T

RYYQ14-20T, RYMQ14-20T, RXYQ14-20T, RXYQ12-16T, RXYLQ12-14T

Liquid pipe

RXYQ10T, RXMLQ8T, RXYLQ10T

RYYQ14-16T, RYMQ14-16T, RXYQ14-16T, RXYQ14-16T, RXYQ12-16T, RXYLQ12-14T

RYYQ18-20T, RYMQ18-20T, RXYQ18-20T, RXYQ18-20T

Equalising pipe

RYMQ14-16T

RXYQ18-20T

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

Ø 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

11	Grounding terminal	Inside of the switch box (MB-)
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	
8	Power cord routing hole (bottom)	Ø65
7	Power cord routing hole (front)	Ø27
6	Power cord routing hole (front)	Ø65
5	Power cord routing hole (front)	Ø80
4	Power cord routing hole (side)	Ø65
3	Equalising pipe connection port	See note -3-
2	High pressure/low pressure gas pipe	
1	Gas pipe connection port	See note -3-
1	Liquid pipe connection port	See note -3-
No.	Part name	Remark

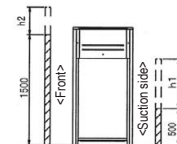
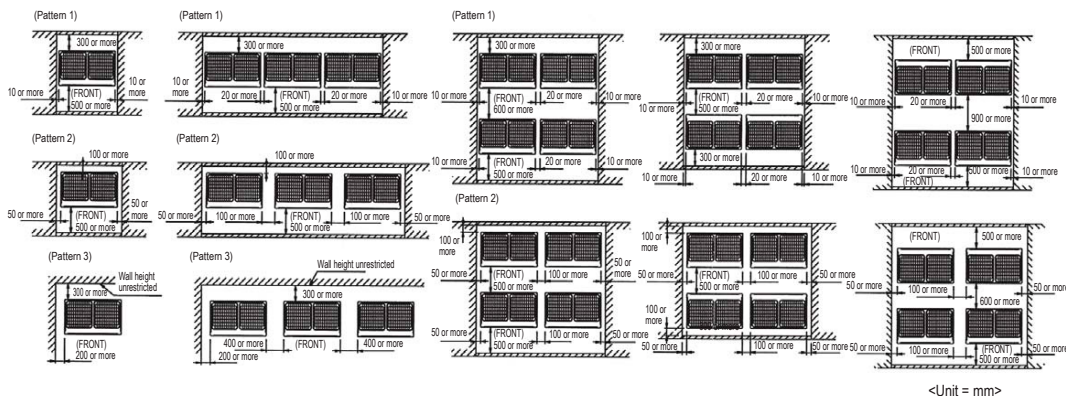
2D079533E

RXMLQ-T - RXYLQ-T

For single unit installation

For installation in rows

For centralized group layout



NOTES

- 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.

- If the above wall heights are exceeded then h/2 and h/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.

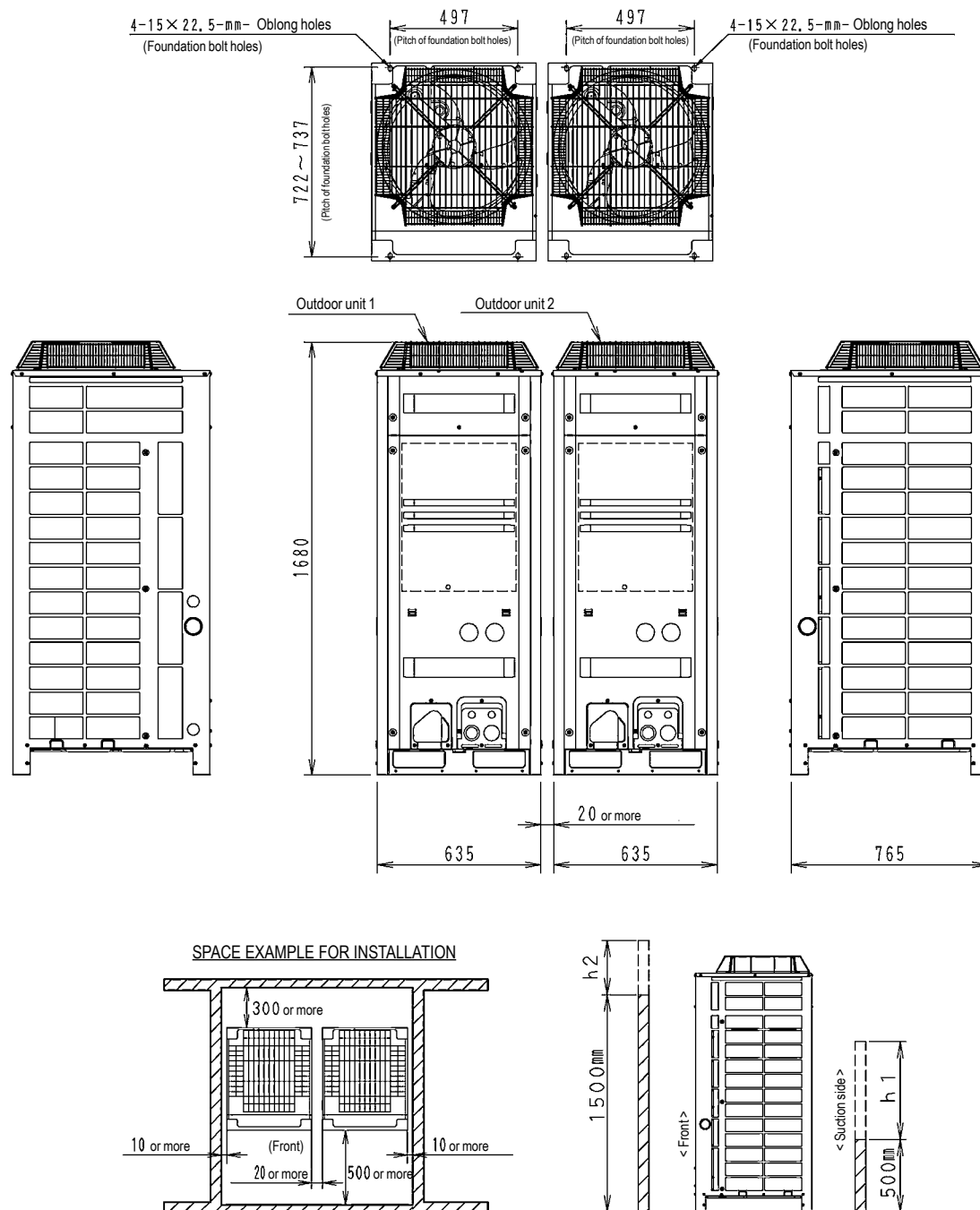
(If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).

- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3D079542



RQCEQ280-360P3



Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°
RQCEQ280P3	RQE140P3	3D066441A	RQE140P3	3D066441A
RQCEQ360P3	RQE180P3	3D066441A	RQE180P3	3D066441A

Unit: mm

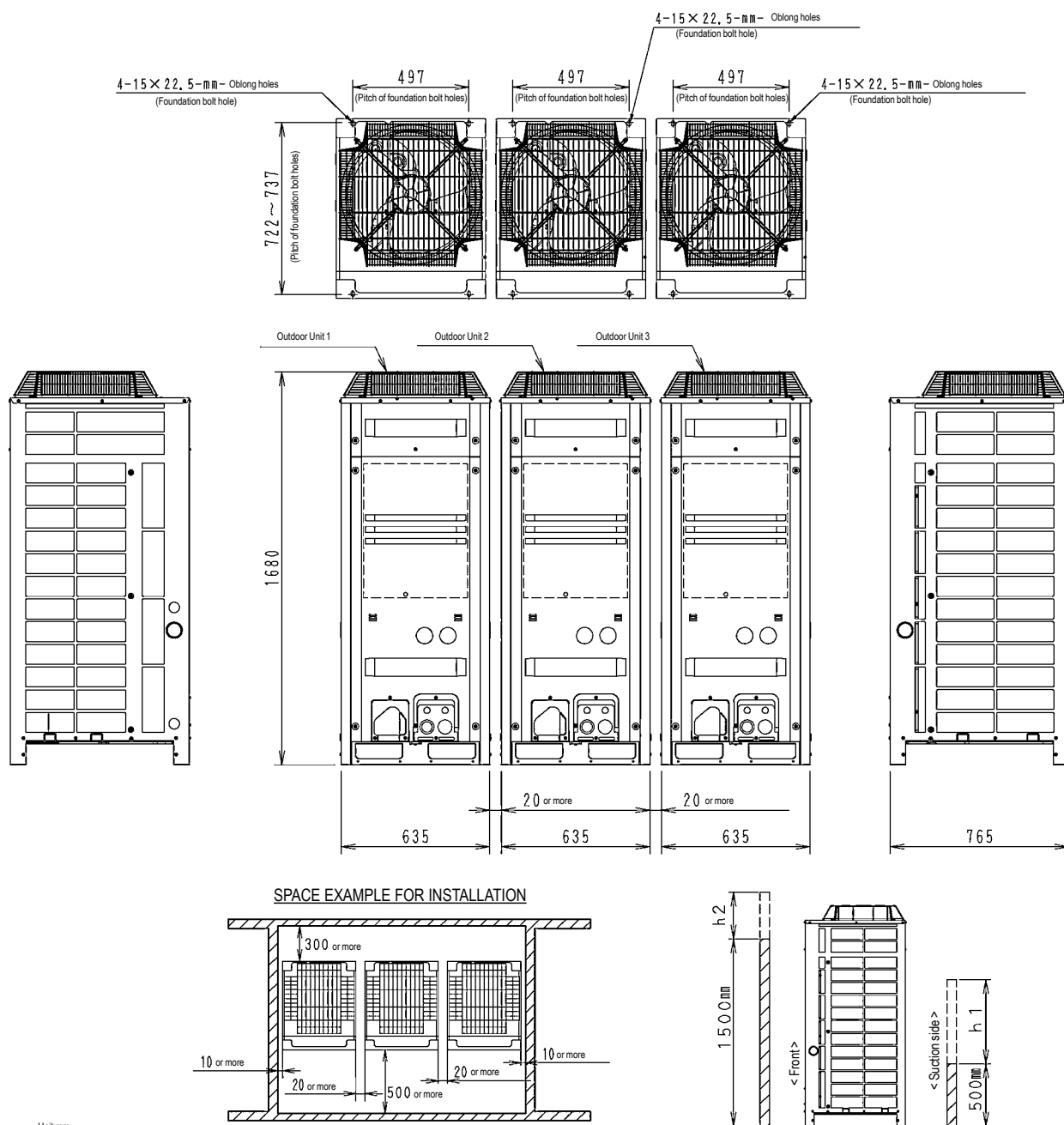
NOTES

- 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)
- 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.
- 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.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3D066856A



RQCEQ460-636P3



Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	Outdoor unit 3	Drawing N°
RQCEQ460P3	RQEQ180P3	3D066441A	RQEQ140P3	3D066441A	RQEQ140P3	3D066441A
RQCEQ500P3	RQEQ180P3	3D066441A	RQEQ180P3	3D066441A	RQEQ140P3	3D066441A
RQCEQ540P3	RQEQ180P3	3D066441A	RQEQ180P3	3D066441A	RQEQ180P3	3D066441A
RQCEQ636P3	RQEQ212P3	3D066441A	RQEQ212P3	3D066441A	RQEQ212P3	3D066441A

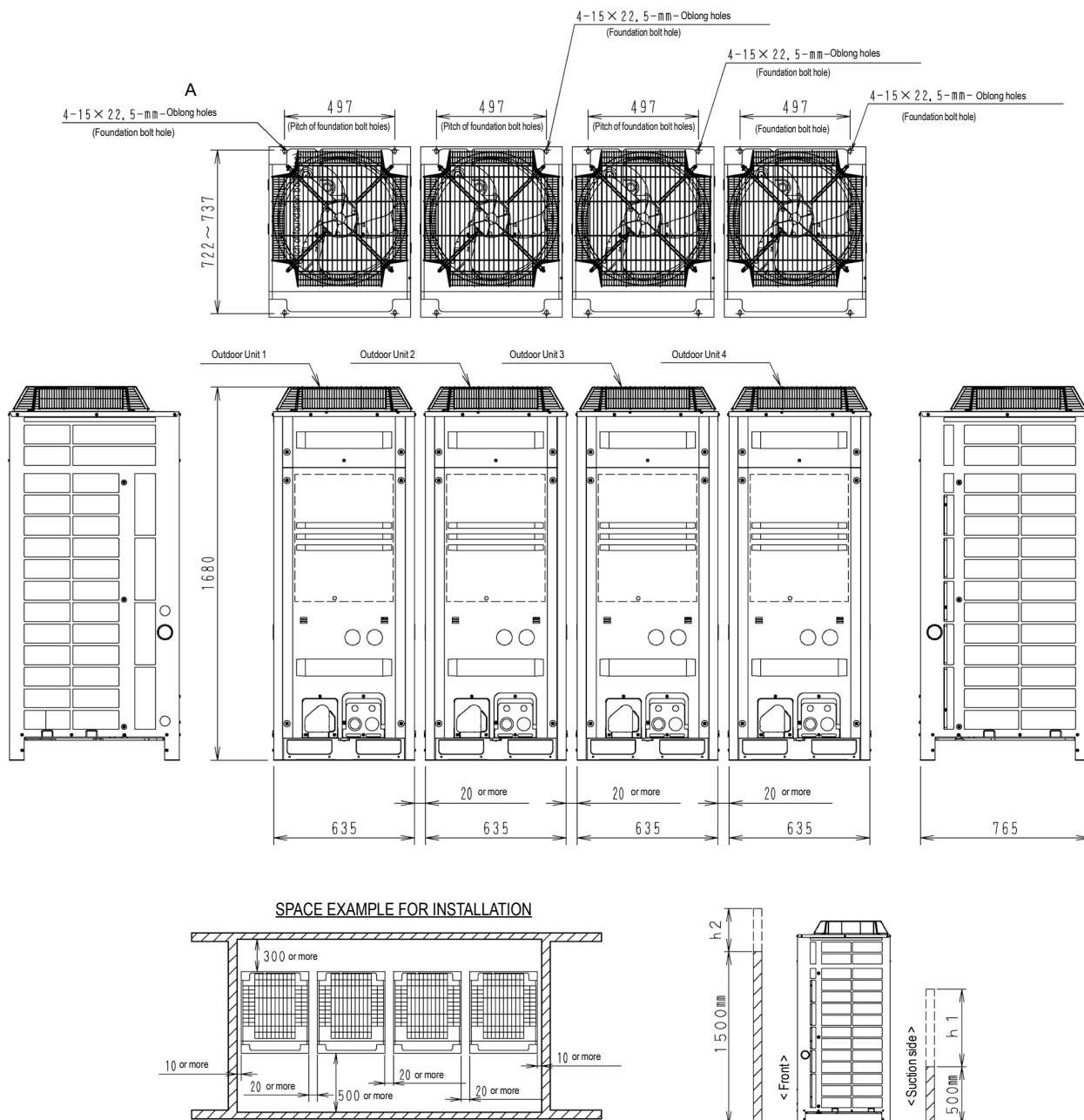
NOTES

- 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)
- 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.
- 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.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3D066860A



RQCEQ721-848P3



Unit: mm

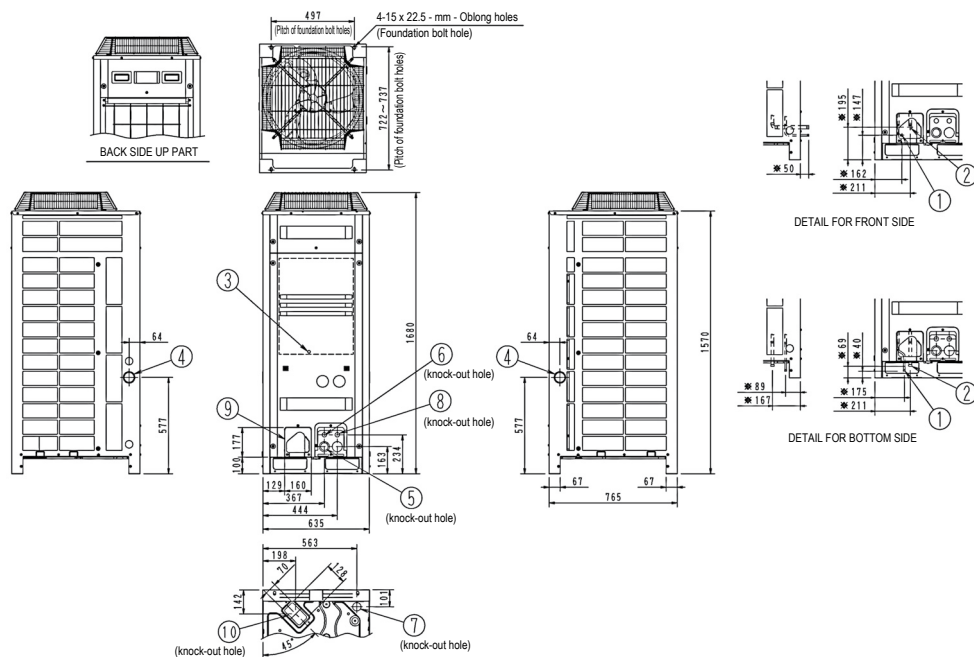
Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	Outdoor unit 3	Drawing N°	Outdoor unit 4	Drawing N°
RQCEQ712P3	RQE212P3	3D066441A	RQE2180P3	3D0664413	RQE2180PA	3D066441A	RQE2140P3	3D066441A
RQCEQ744P3	RQE212P3	3D066441A	RQE212P3	3D0664413	RQE2180PA	3D066441A	RQE2140P3	3D066441A
RQCEQ816P3	RQE212P3	3D066441A	RQE212P3	3D0664413	RQE212PA	3D066441A	RQE2180P3	3D066441A
RQCEQ848P3	RQE212P3	3D066441A	RQE212P3	3D0664413	RQE212PA	3D066441A	RQE212P3	3D066441A

NOTES

- 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)
- 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.
- 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.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3D066865A

RQYQ140P

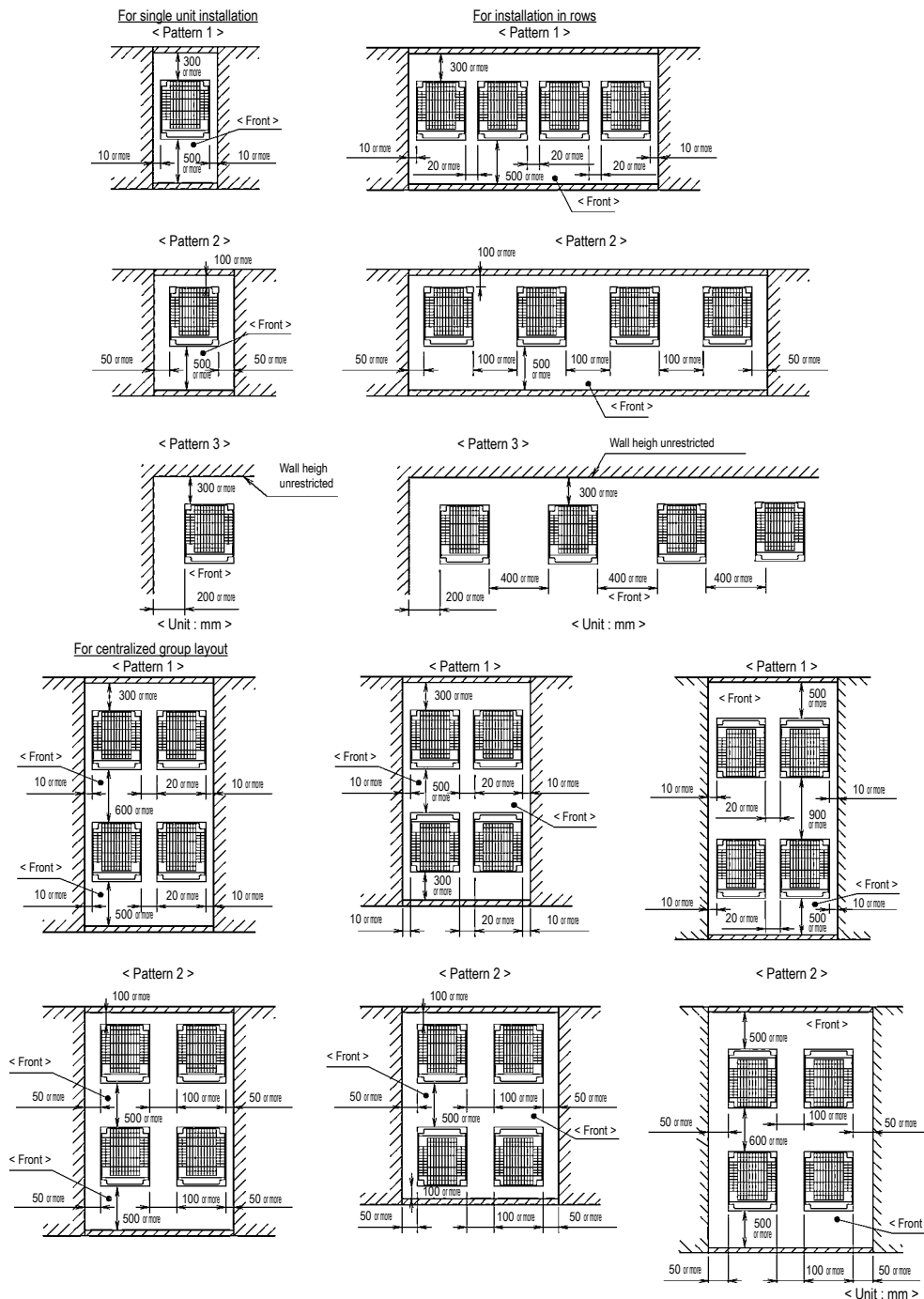


No.	Parts name	Remarks
1	Liquid pipe connection port	ø9.5 Brazing connection
2	Gas pipe connection port	See note 3.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (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: RQYQ140P

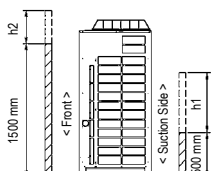
3D066442

RQYQ140P


3D066327A

NOTES

- Heights of walls in case of patterns 1 and 2:
Front: 1500 mm
Suction side: 500mm
Side: Height unrestricted.
Installation space to be shown in 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 because of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.
- If the above wall heights are exceeded then $h/2$ and $h/2$ should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- 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 to the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



RWYQ-T9

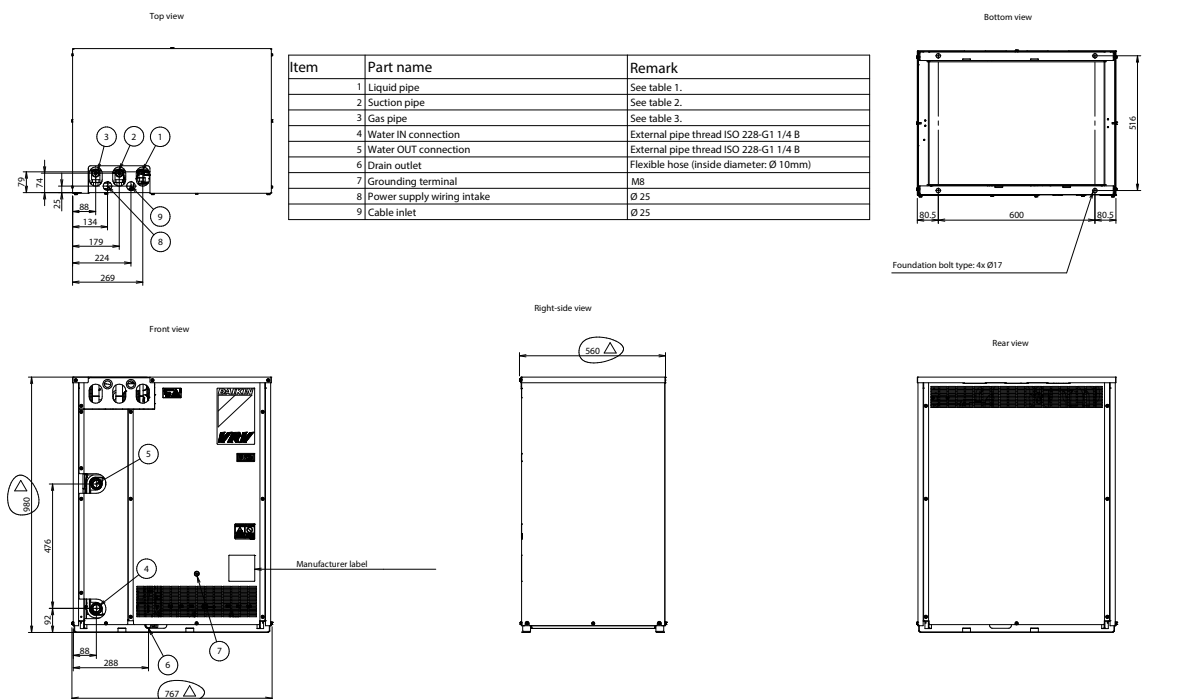


Table 1

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 10.1	Ø 28.6	Ø 22.2

Notes

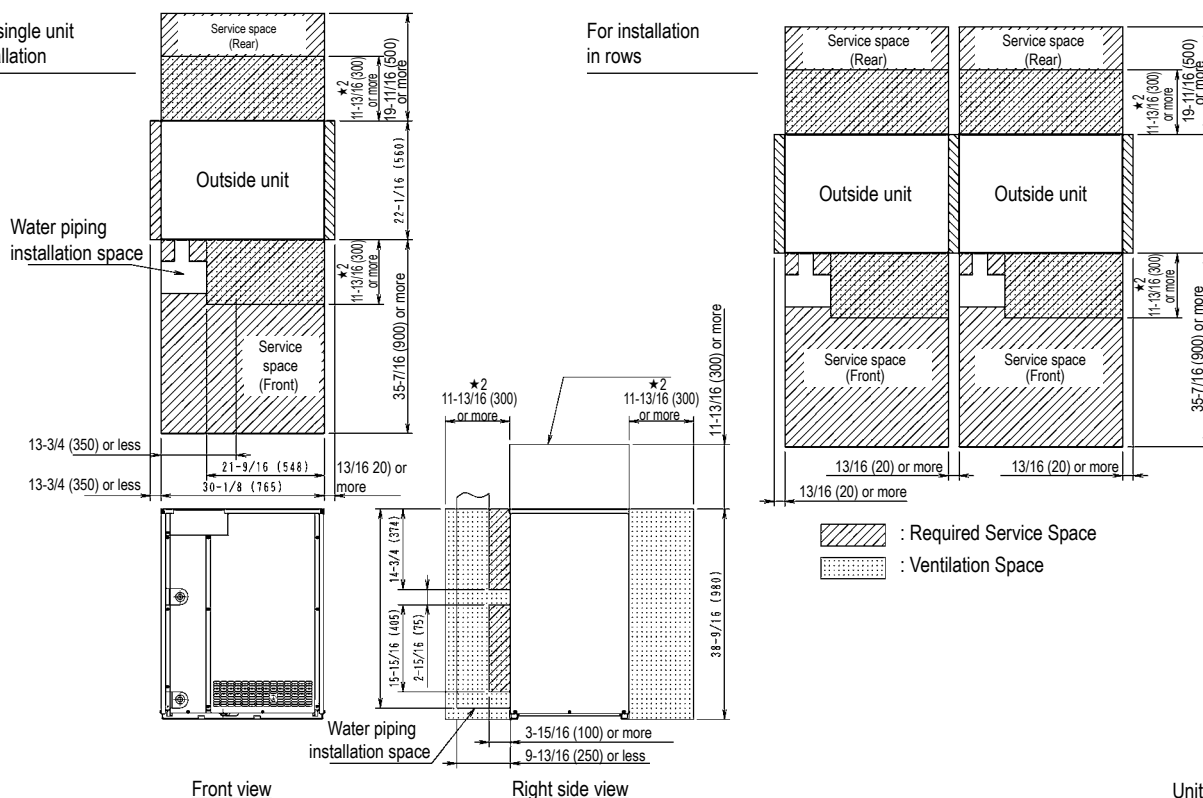
1. The grounding terminal is located in the switch box.
2. The pipe connections are brazed connections.
3. In case of a heat pump, the suction pipe is not used.

2D108932A

RWEYQ-T9

For single unit
installation

For installation
in rows



Unit: in. (mm)

NOTES

- ★1. This space is necessary when refrigerant piping is connected to the top of the unit.
★2. This ventilation space is necessary when heat rejection cancellation (Zero energy dissipation) is not active.

3D109304B



Technical drawings

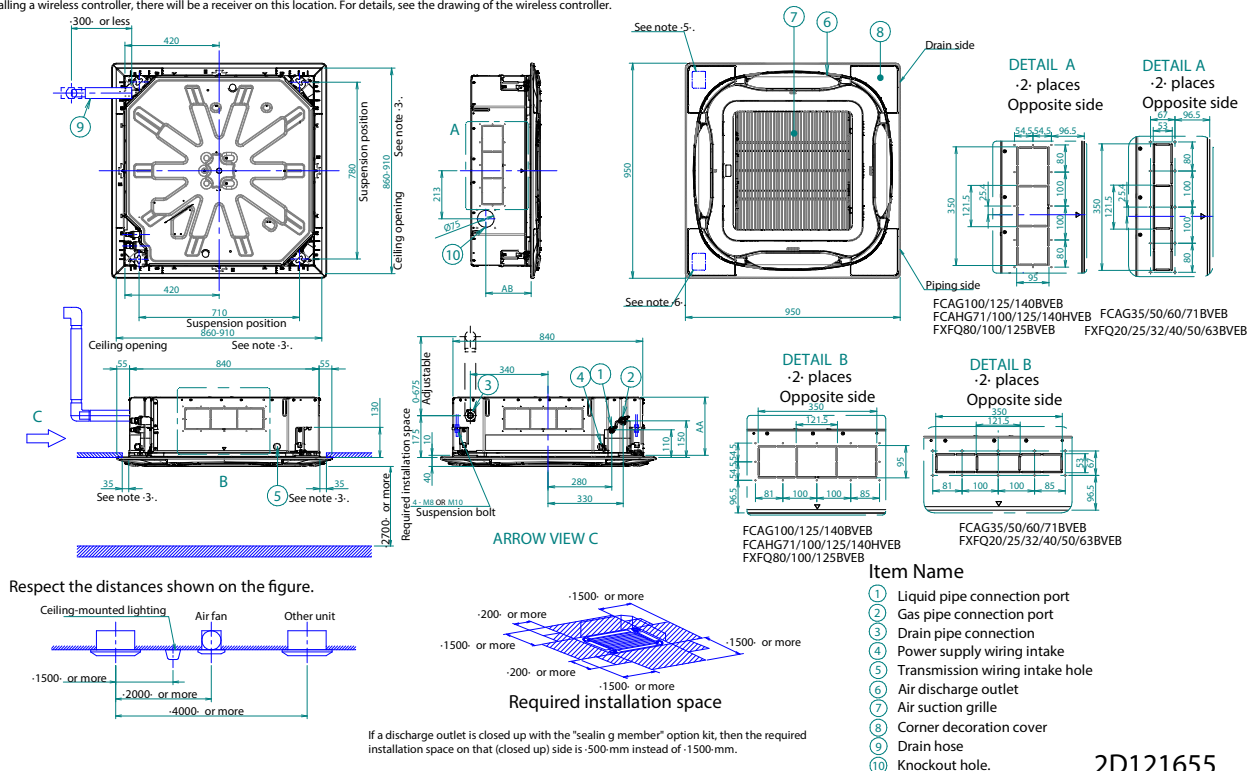
Indoor units

FXFA-A / FXFQ-B	247
FXZA-A / FXZQ-A	249
FXCQ-A	250
FXKQ-MA	252
FXDA-A / FXDQ-A3	253
FXSA-A / FXSQ-A	258
FXMQ-P7 / FXMQ-MB	266
FXAQ-A	272
FXHQ-A	274
FXUQ-A	275
FXNQ-A	276
FXLQ-P	280
FTXJ-MW - FTXJ-MS	282
C/FTXA-AW/BS/BT/BB	283
FVXG-K	284
FVXM-F	285

FXFA-A / FXFO-B WITH STANDARD PANEL

Notes

- Notes**
1. Location of nameplate
The unit nameplate is located on the control box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
 2. When installing optional accessories, refer to their respective documentation.
 3. Make sure the distance between the ceiling and the cassette does not exceed 35 mm.
The maximum ceiling opening is 910 mm.
 4. When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness ≥ 10 mm).
 5. When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.
 6. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.

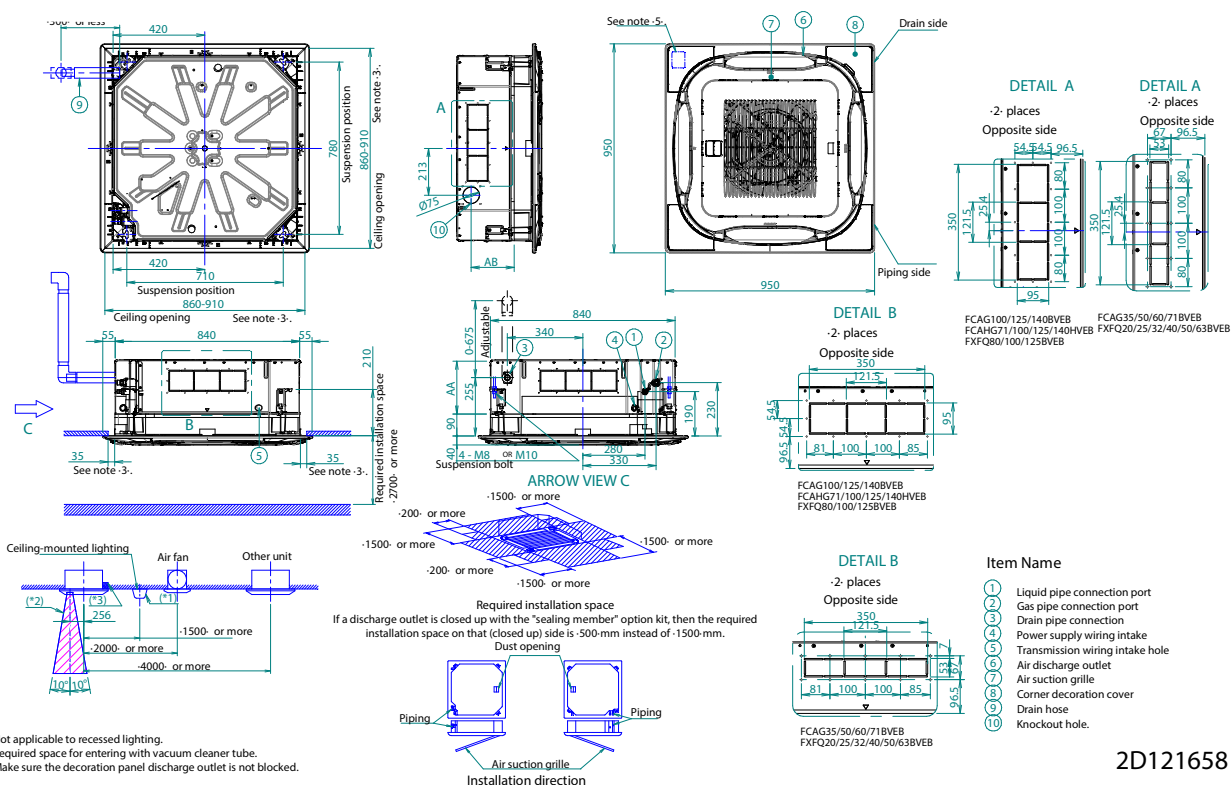


2D121655

FXFA-A / FXFQ-B WITH AUTO CLEANING PANEL

Notes

1. Location of nameplate
The unit nameplate is located on the control box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
2. When installing optional accessories, refer to their respective documentation.
3. Make sure the distance between the ceiling and the cassette does not exceed 35 mm.
The maximum ceiling opening is 910 mm.
4. When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness ≥ 10 mm).
5. When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.



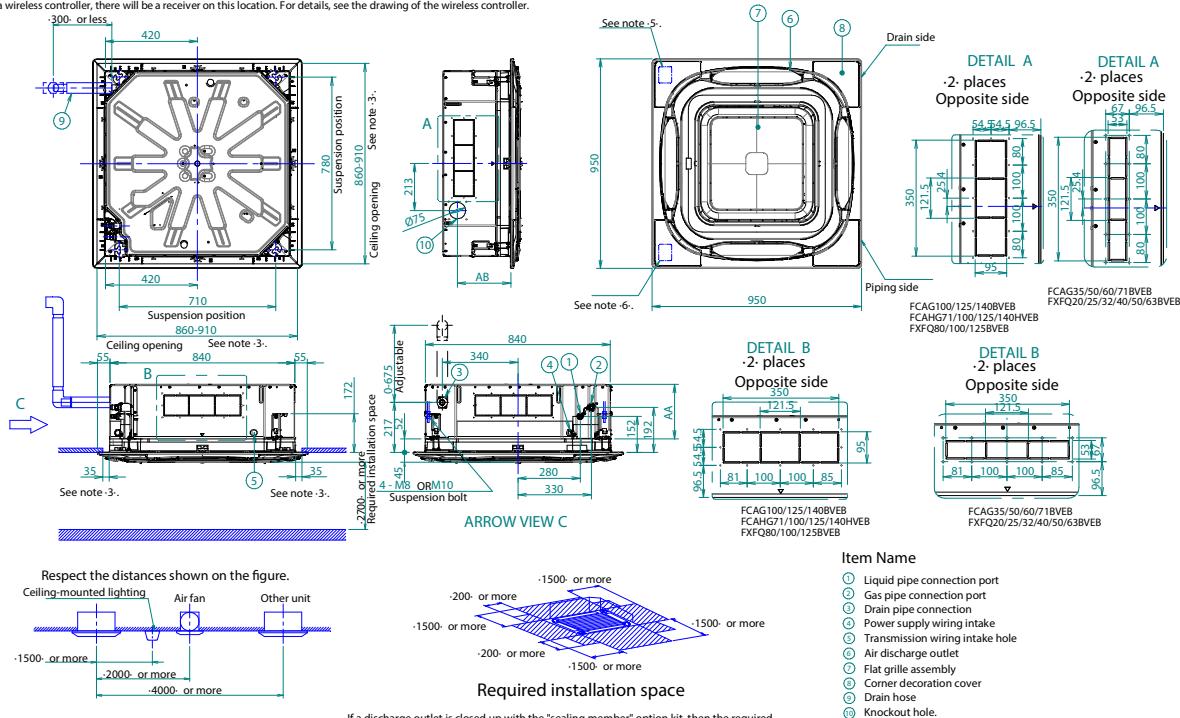
2D121658



FXFA-A / FXFQ-B WITH DESIGNER PANEL

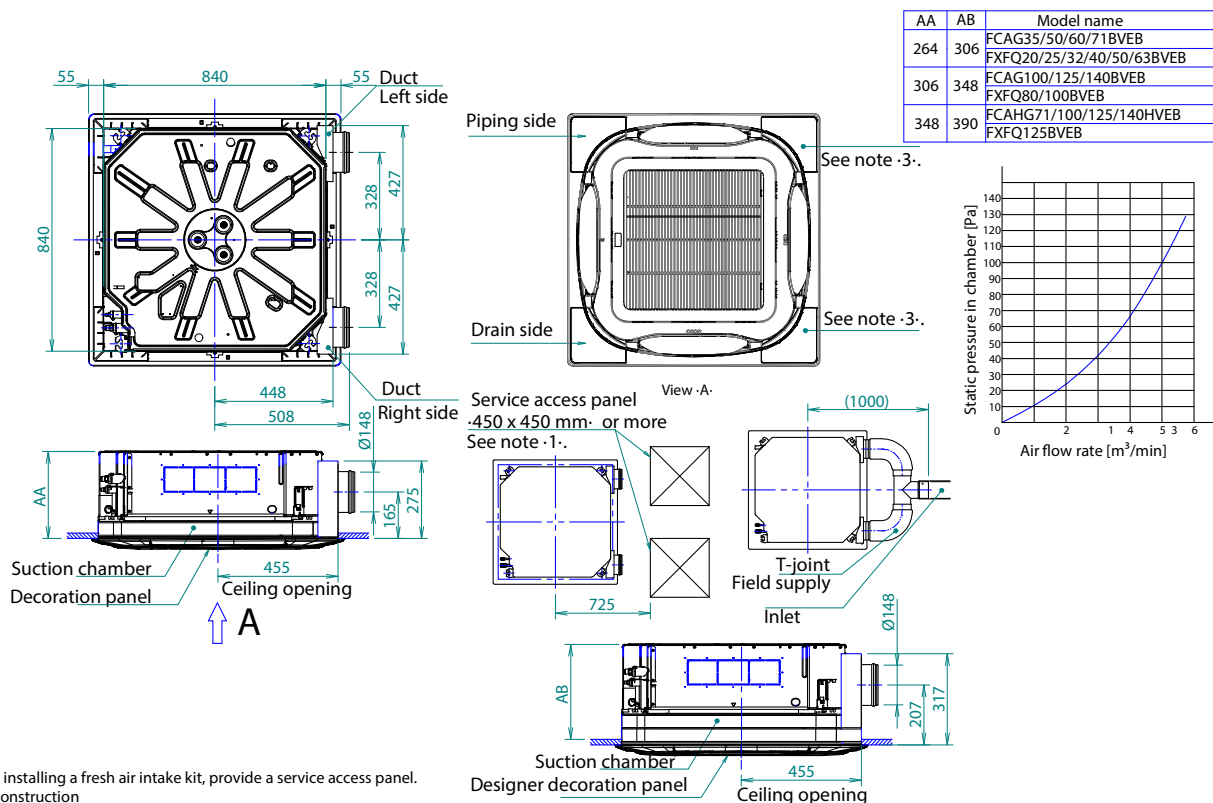
Notes

1. Location of nameplate
The unit nameplate is located on the control box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
2. When installing optional accessories, refer to their respective documentation.
3. Make sure the distance between the ceiling and the cassette does not exceed 35 mm.
The maximum ceiling opening is 910 mm.
4. When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness ≥ 10 mm).
5. When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.
6. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.



2D121703

FXFA-A / FXFQ-B WITH FRESH AIR INTAKE



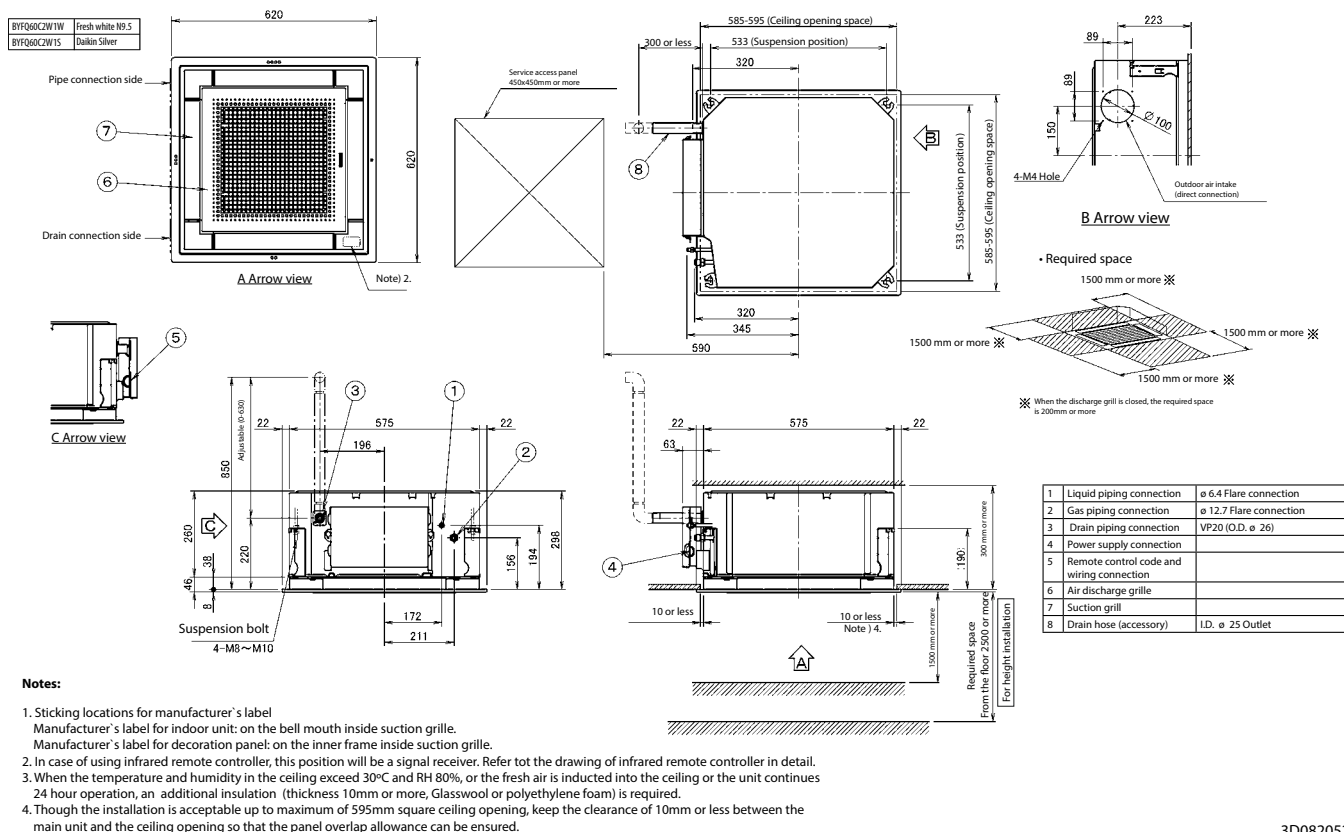
Notes

1. When installing a fresh air intake kit, provide a service access panel.
2. Field construction
3. This corner discharge outlet needs to be closed.
4. When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
5. 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.

3D121741

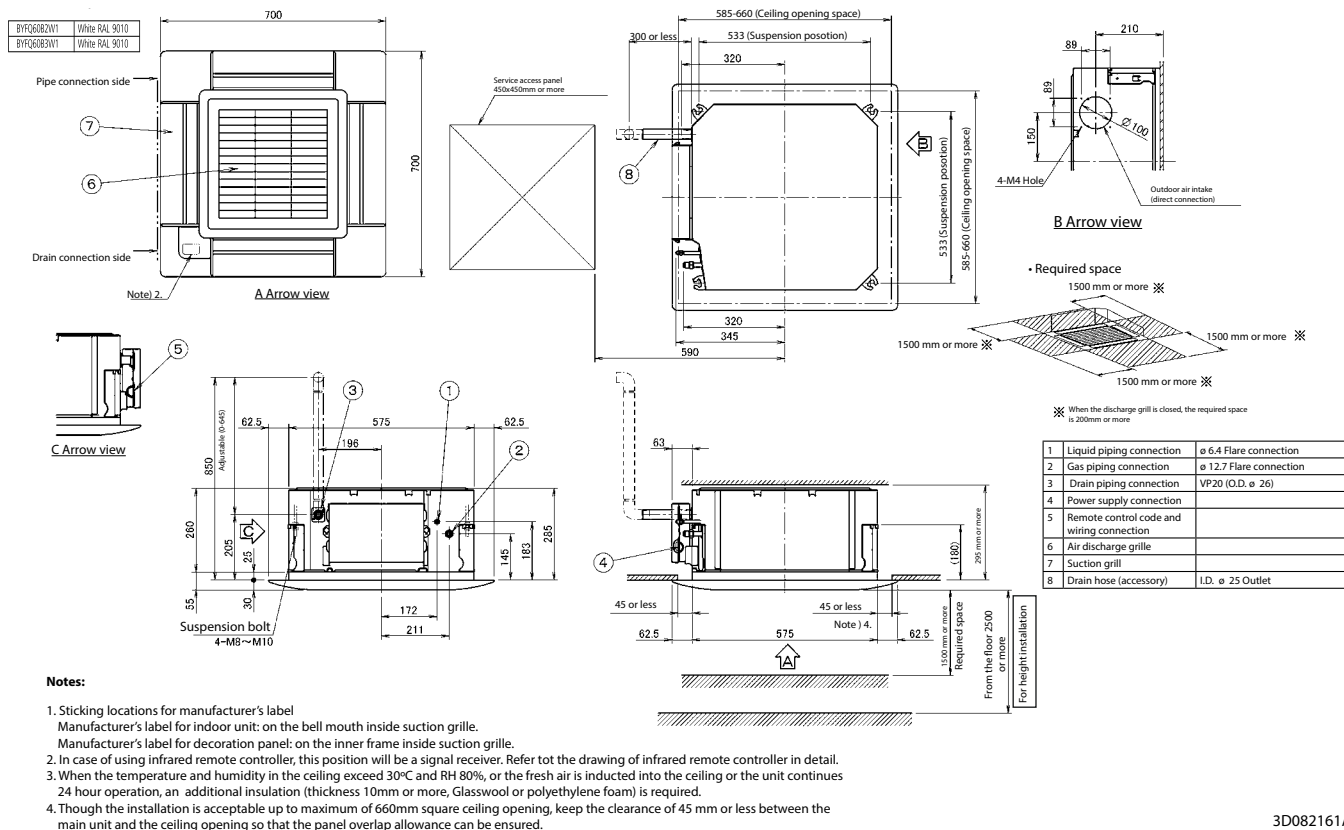


FXZA-A / FXZQ-A NEW PANEL



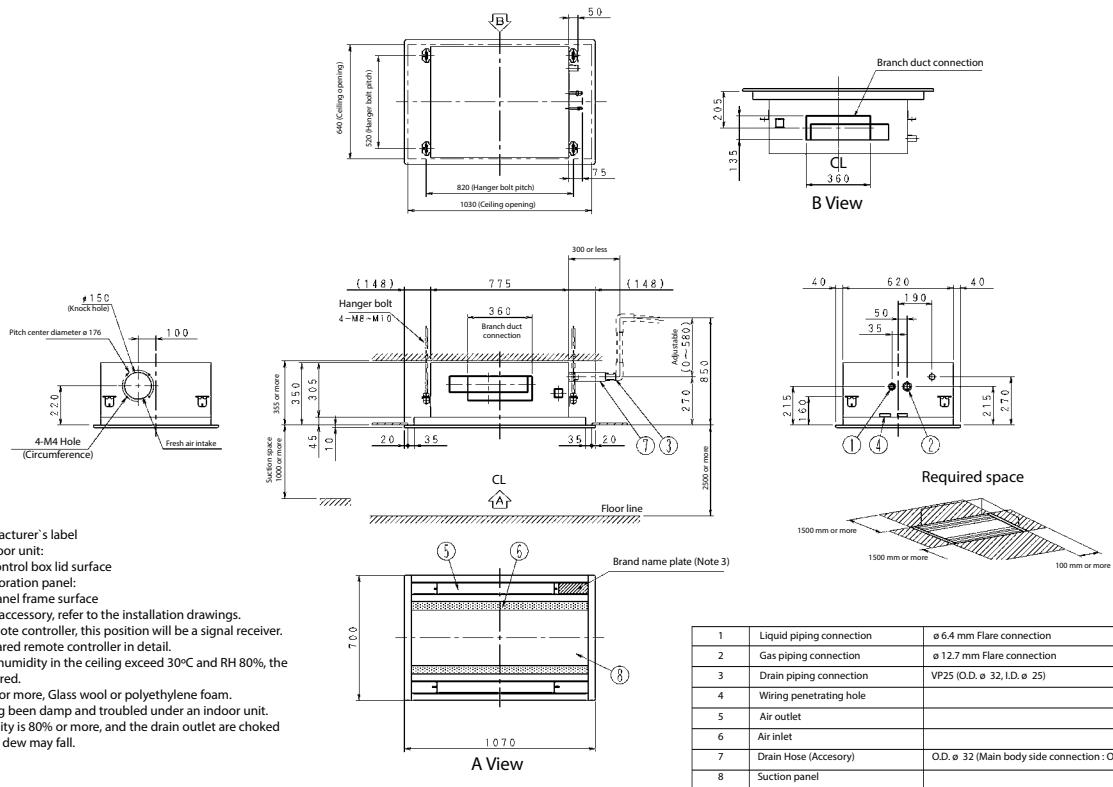
3D082052

FXZA-A / FXZQ-A OLD PANEL



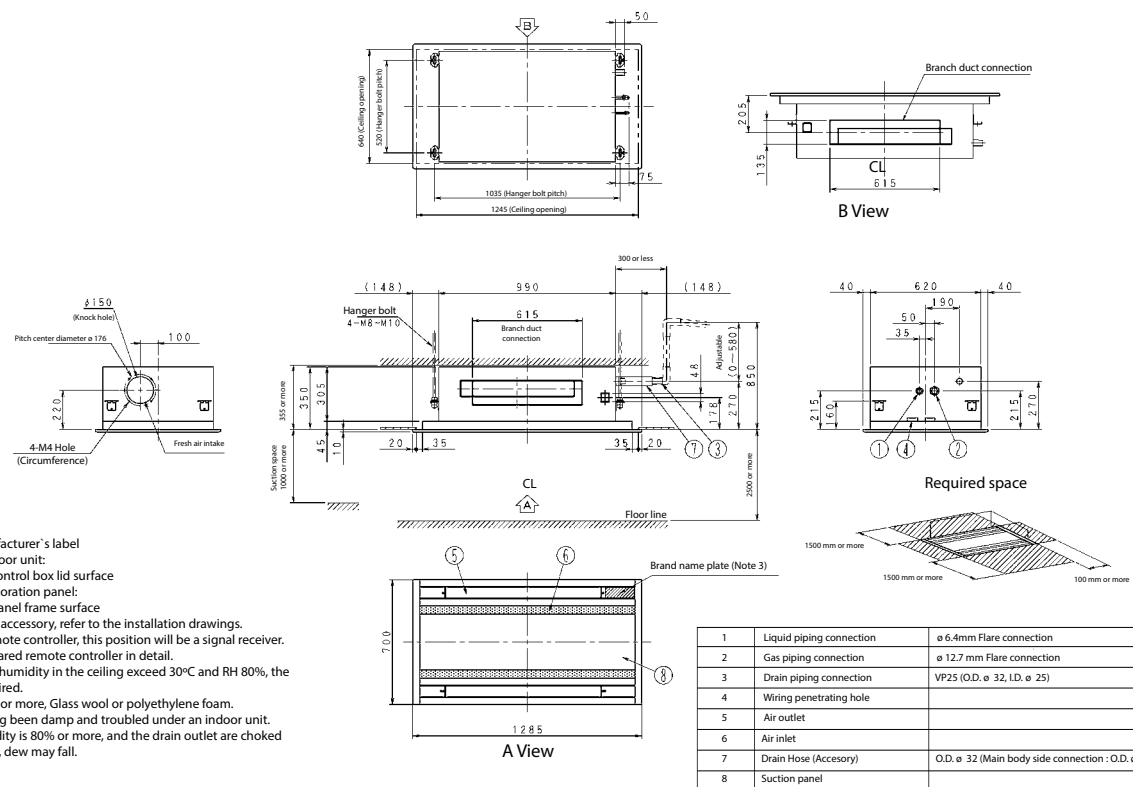
3D082161A

FXCQ20-40A



3D079628

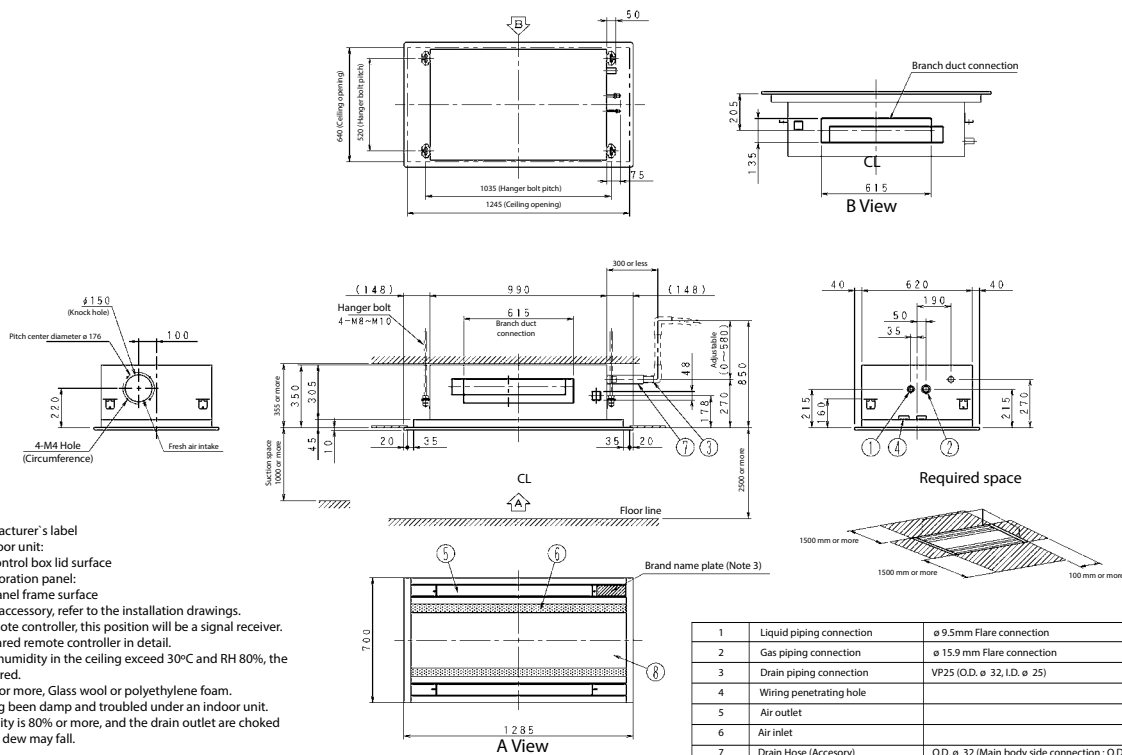
FXCQ50A



3D079629

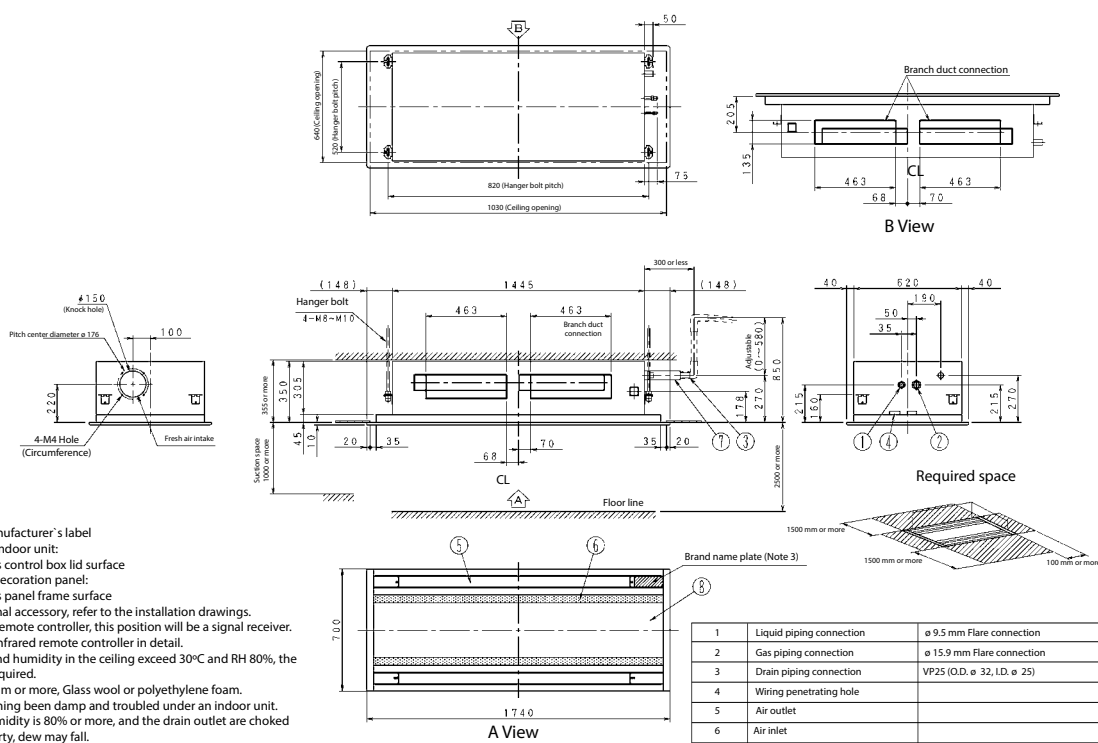


FXCQ63A



3D079630

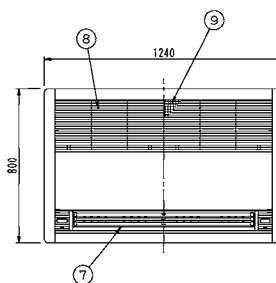
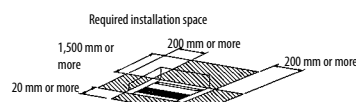
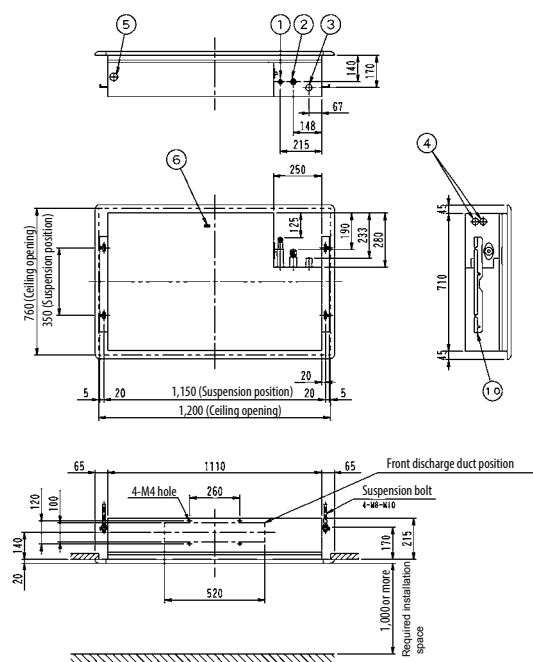
FXCQ80-125A



3D079631



FXKQ25, 32, 40MA



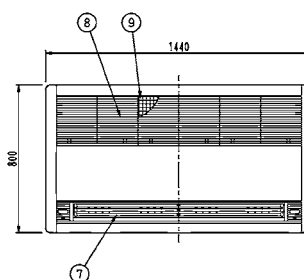
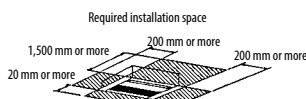
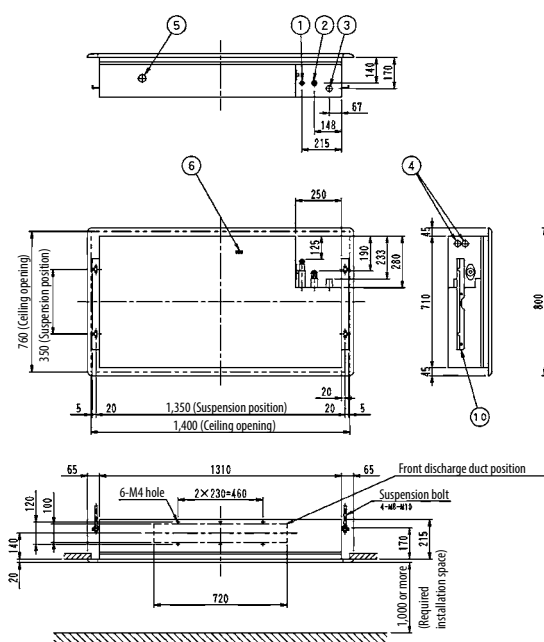
Nr.	Name	Description
1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box (M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

NOTES

- 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



Nr.	Name	Description
1	Liquid pipe connection	ø 9.5 Flare connection
2	Gas pipe connection	ø 15.9 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box (M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

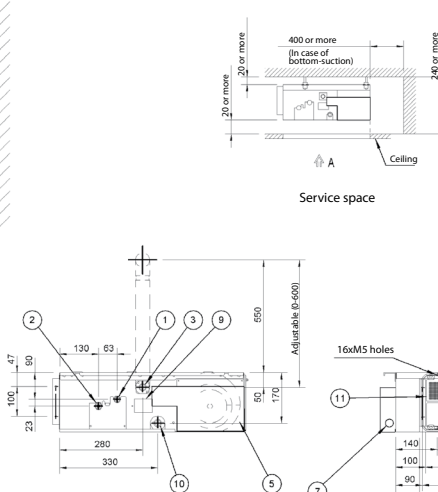
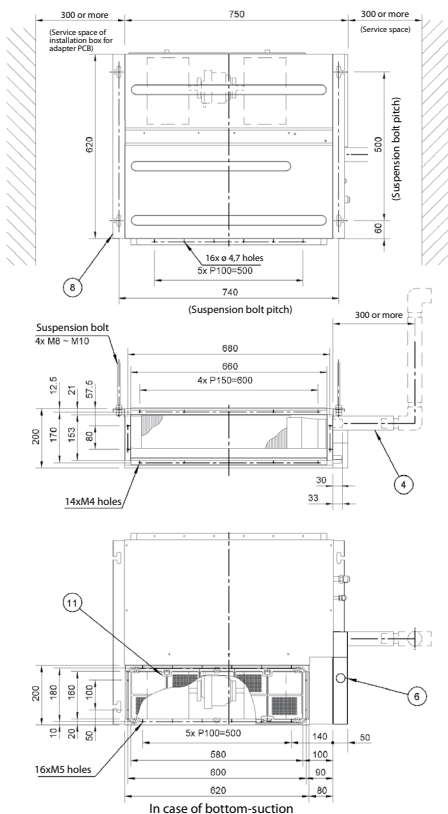
NOTES

- 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.

3D038841



FXDQ15-32A3 FXDA15-32A



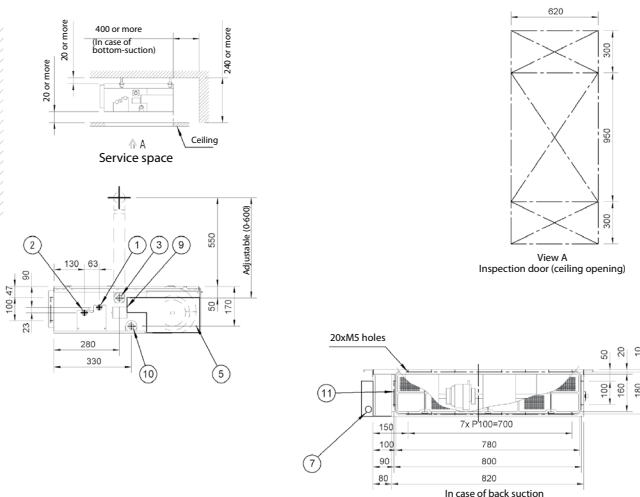
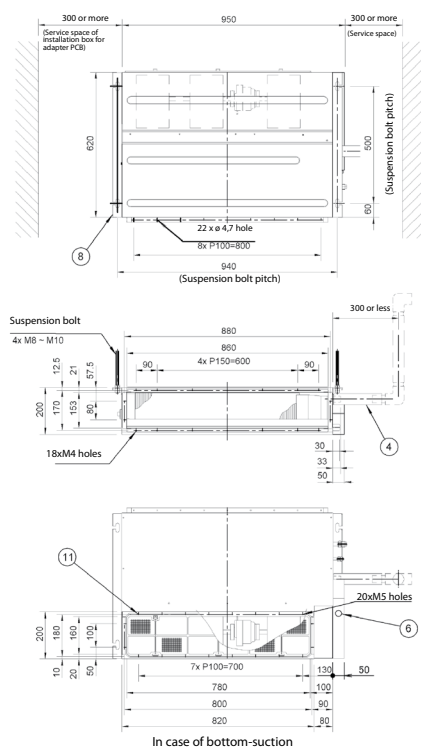
1	Liquid pipe connection	$\phi 6.4$ Flare connection
2	Gas pipe connection	$\phi 12.7$ Flare connection
3	Drain pipe connection	VP20 (O.D. $\phi 26$, I.D. $\phi 20$)
4	Drain hose (accessory)	ID $\phi 25$ (Outlet)
5	control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection cover	
10	Socket for drain	
11	Air filter (accessory)	

Notes:

1. In case of back-suction, mount chamber cover to bottom 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.

3D081435

FXDQ40-50A3 FXDA40-50A



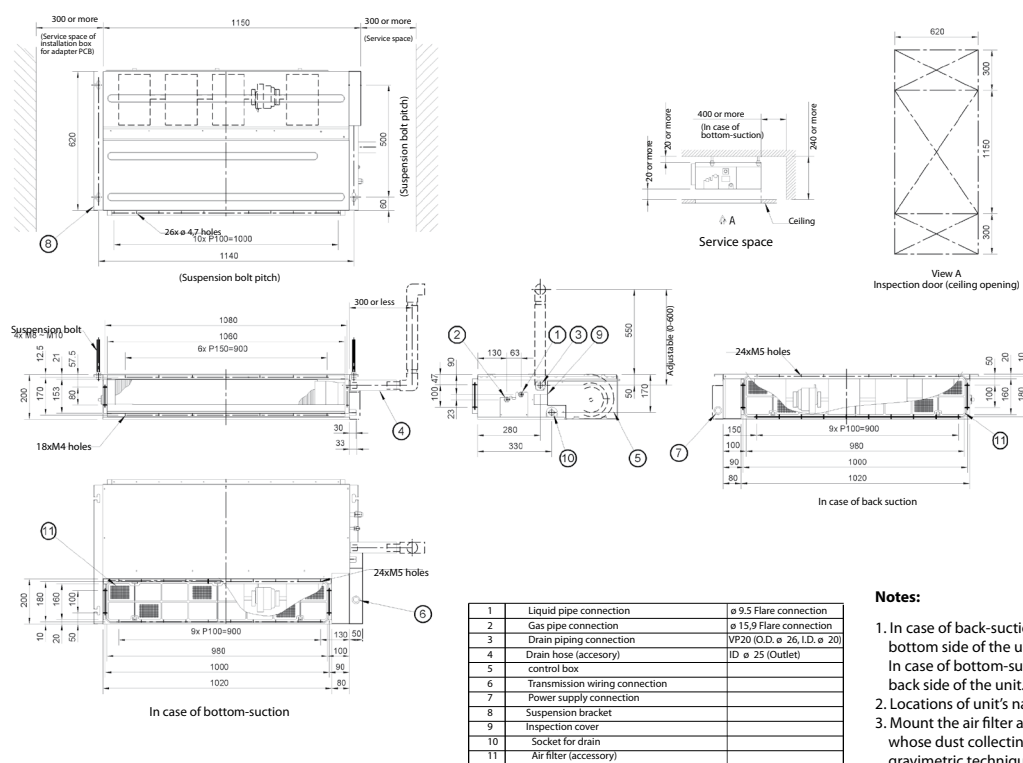
1	Liquid pipe connection	$\phi 6.4$ Flare connection
2	Gas pipe connection	$\phi 12.7$ Flare connection
3	Drain pipe connection	VP20 (O.D. $\phi 26$, I.D. $\phi 20$)
4	Drain hose (accessory)	ID $\phi 25$ (Outlet)
5	control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection cover	
10	Socket for drain	
11	Air filter (accessory)	

Notes:

1. In case of back-suction, mount chamber cover to bottom 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.

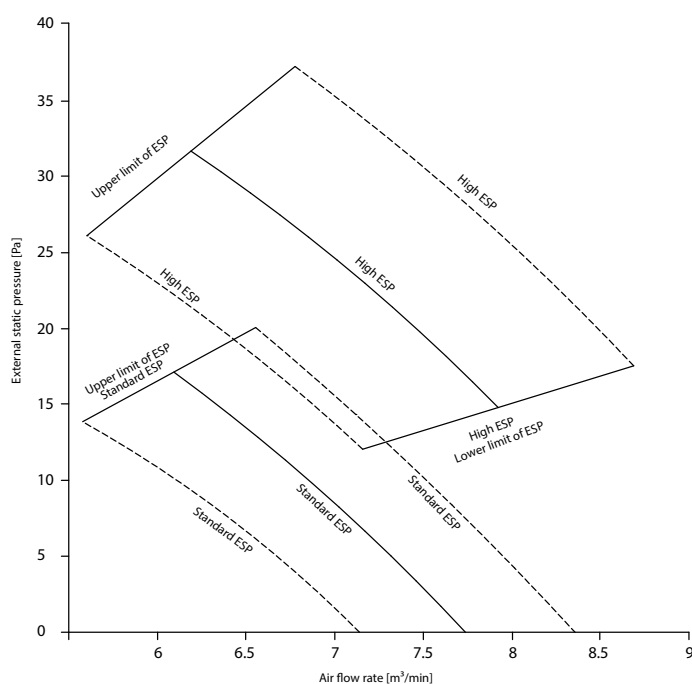
3D081436

FXDQ63A3
FXDA63A



3D081441

FXDQ15A3
FXDA15A



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.

3D081424C

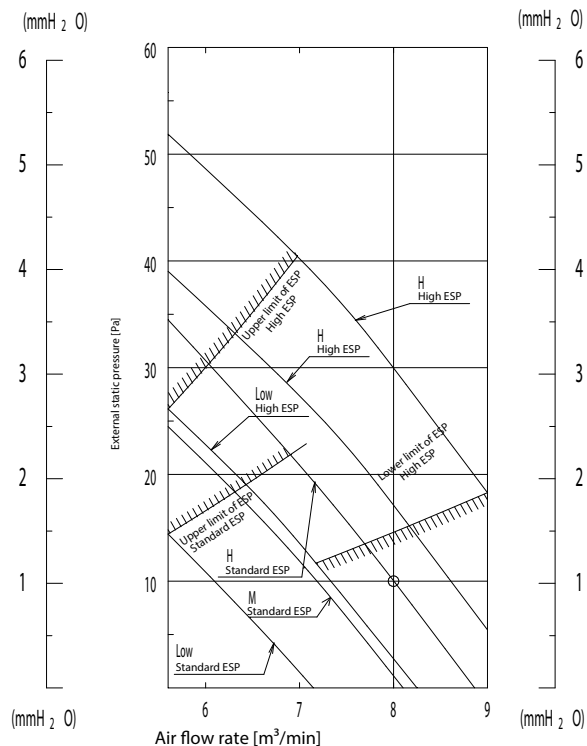


FXDQ20-25A3
FXDA20-25A

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.



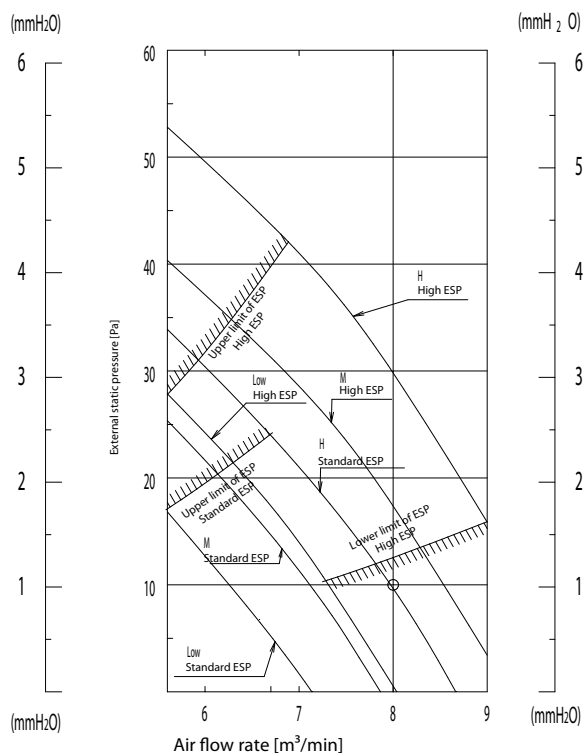
3D086736B

FXDQ32A3
FXDA32A

Notes

The remote controller can be used to switch between 'high' and 'low'.

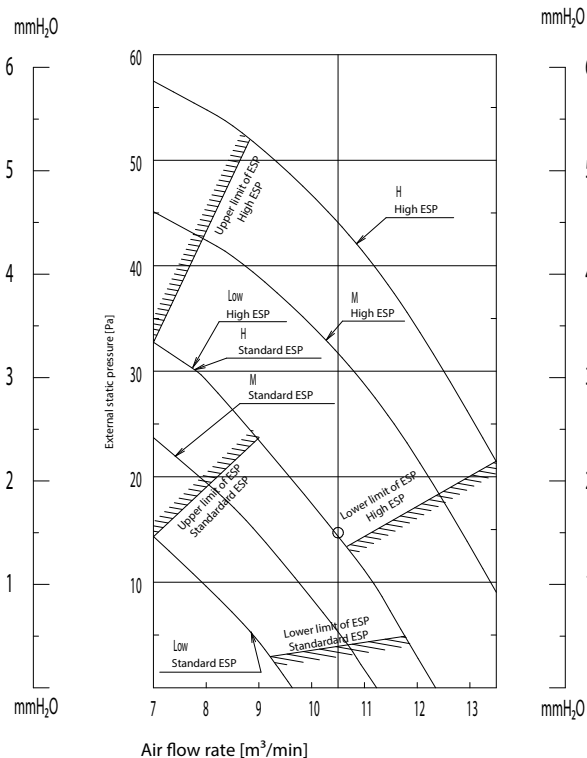
The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



3D081425C



FXDQ40A3
FXDA40A

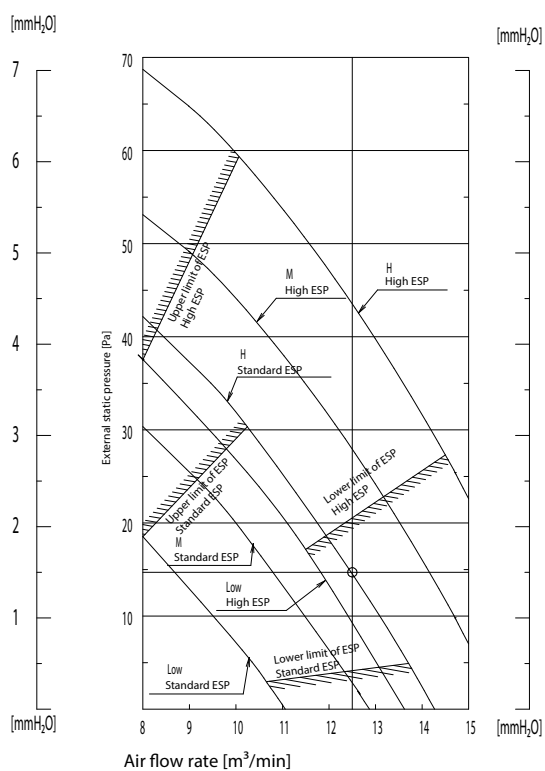


Notes

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.

3D081426C

FXDQ50A3
FXDA50A



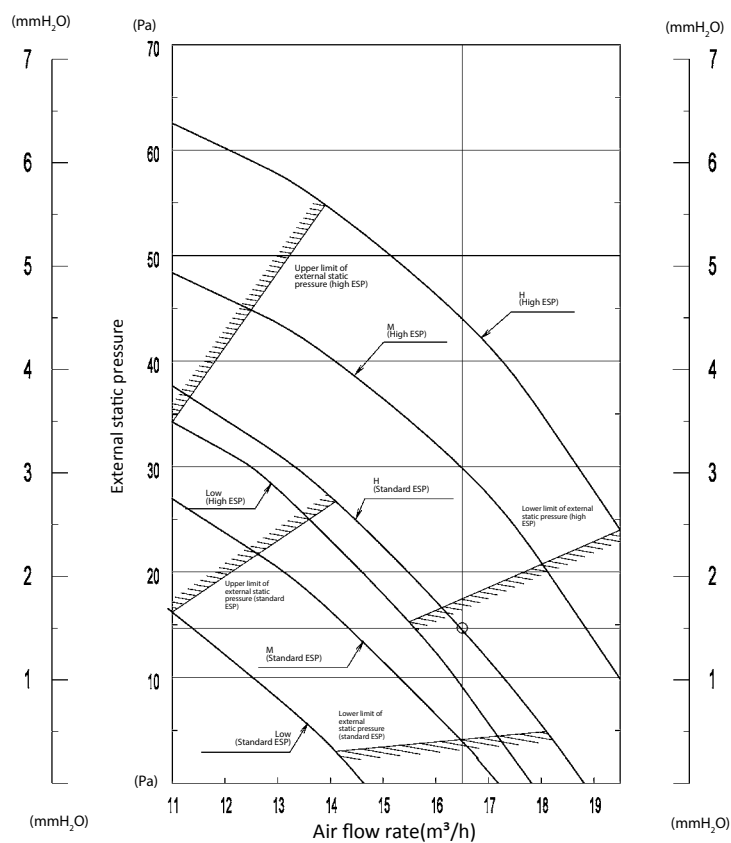
Notes

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



FXDQ60A3 FXDA60A



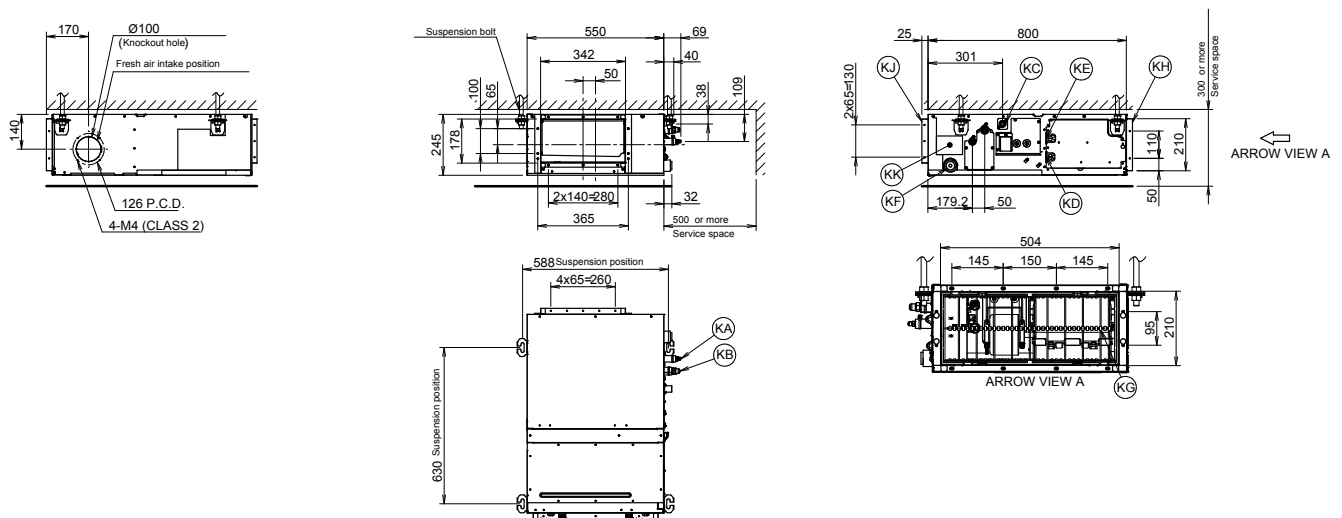
Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FDQ-A2VEB model)
2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081429B



Detailed technical drawings

FXSQ15-32A FXSA15-32A

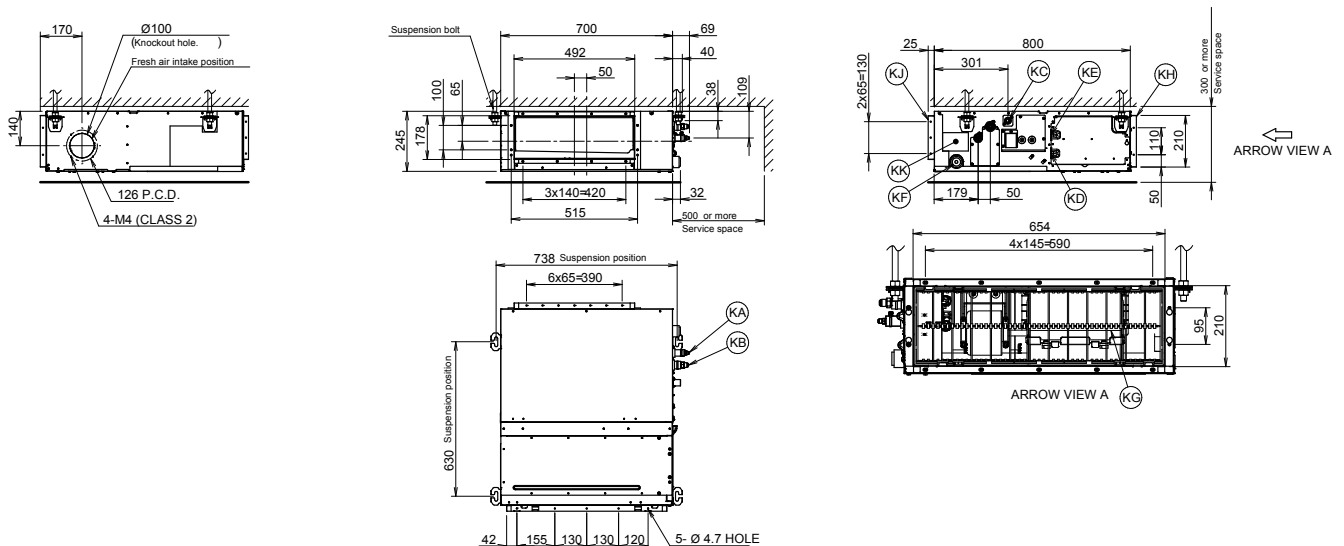


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094888A

FXSQ40-50A FXSA40-50A



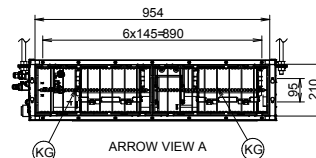
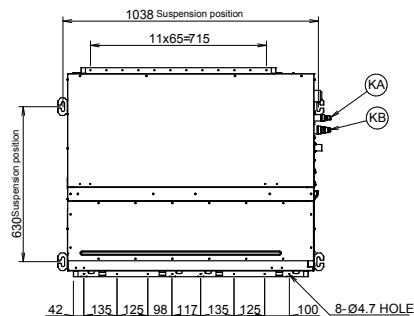
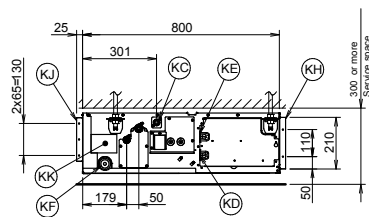
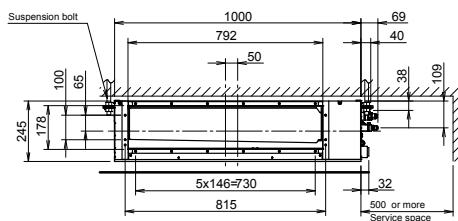
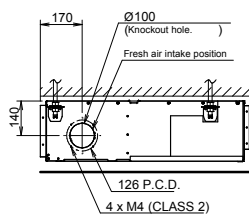
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	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.

3D094919A



FXSQ63-80A FXSA63-80A



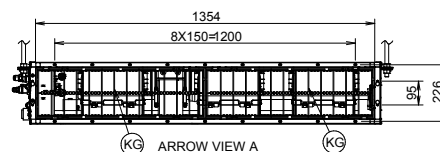
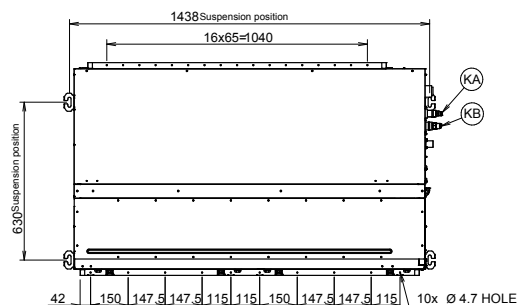
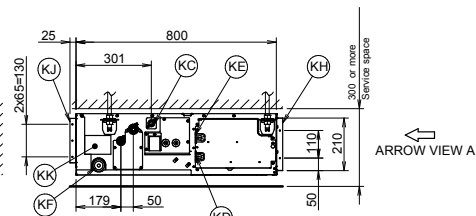
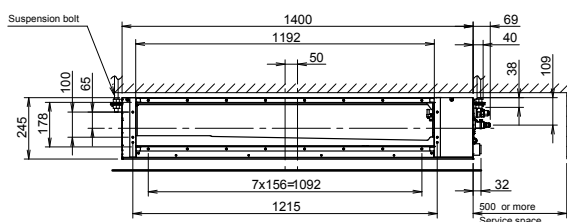
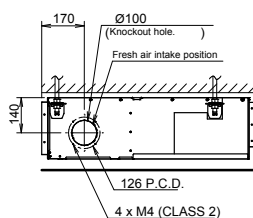
Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
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.

3D094916A

FXSQ100-125A FXSA100-125A



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

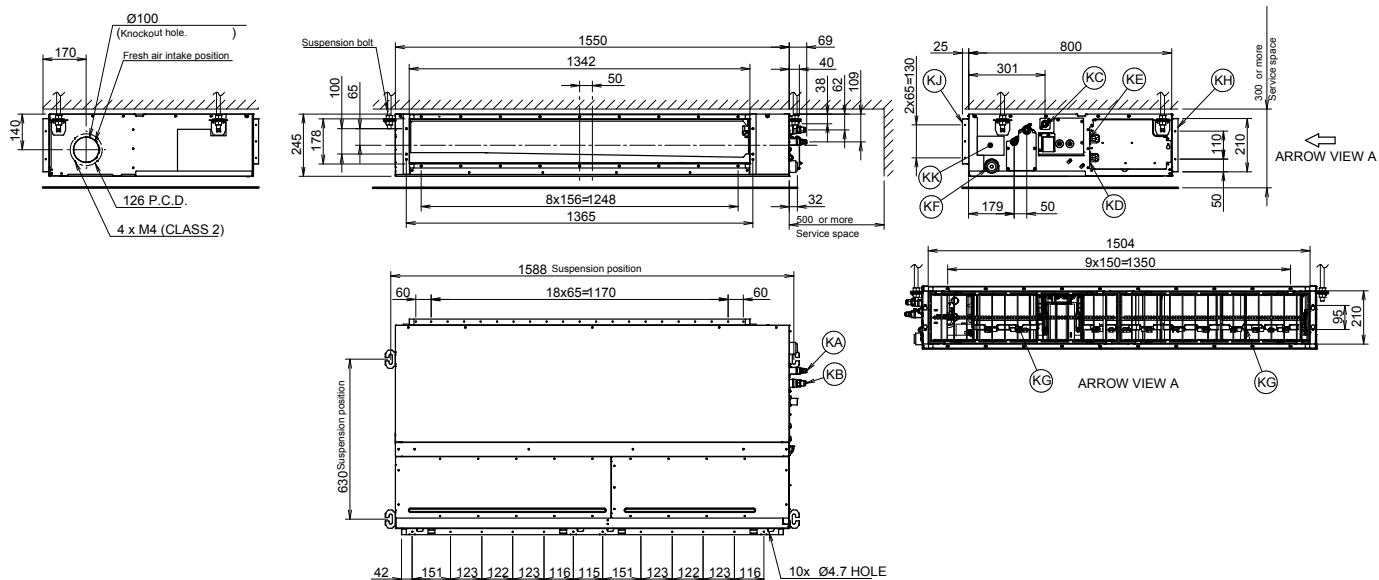
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094917A



Detailed technical drawings

FXSQ140A FXSA140A



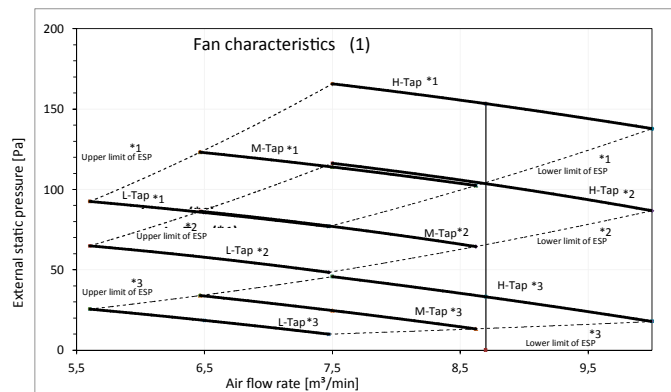
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KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
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.

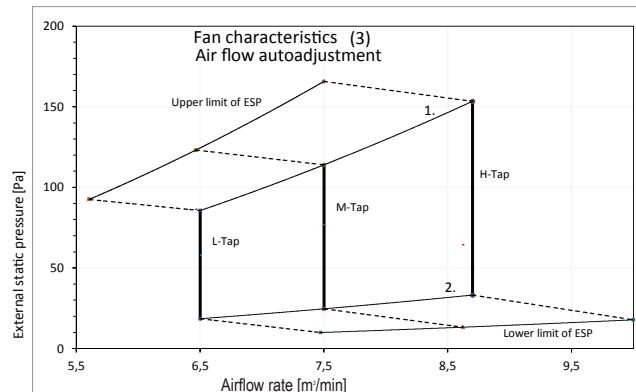
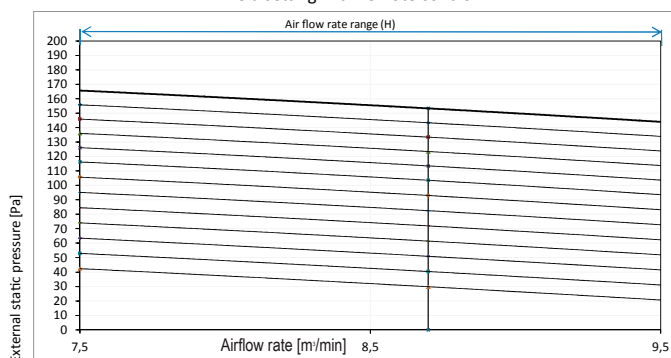
3D094928A

FXSQ15A FXSA15A



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	50

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

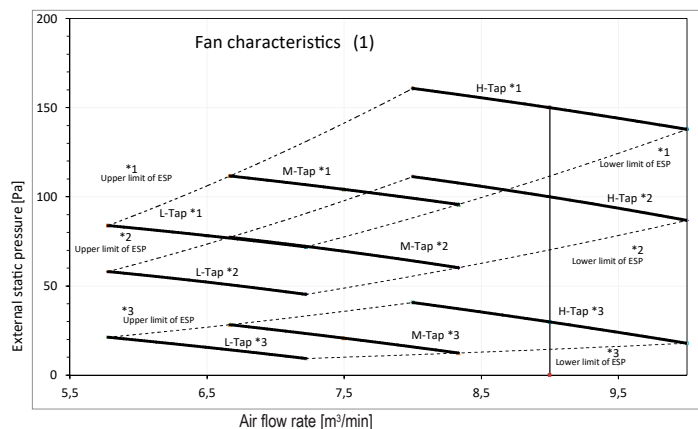
Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D096999

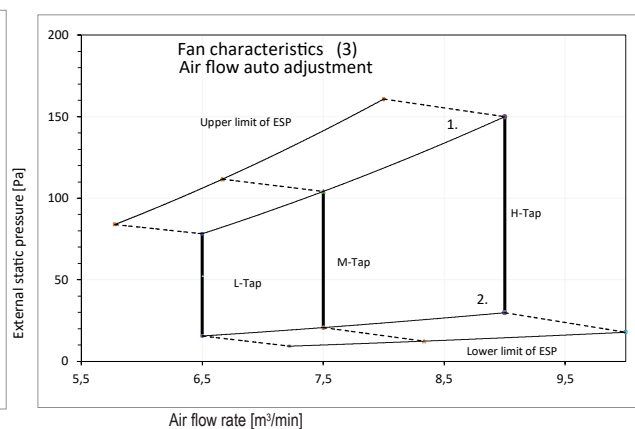
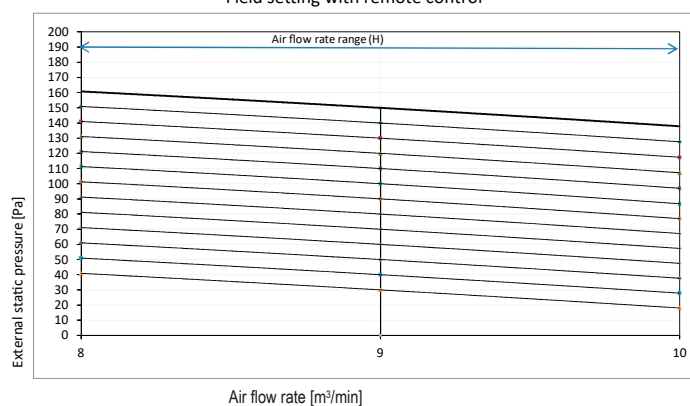


FXSQ20-25A FXSA20-25A



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	30

Fan characteristics (2)
Field setting with remote control



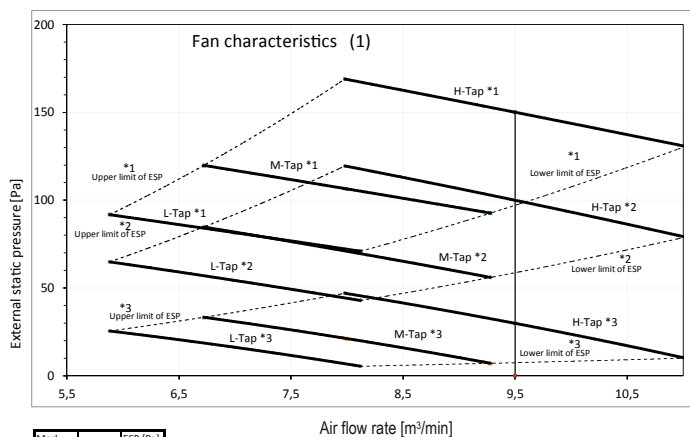
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

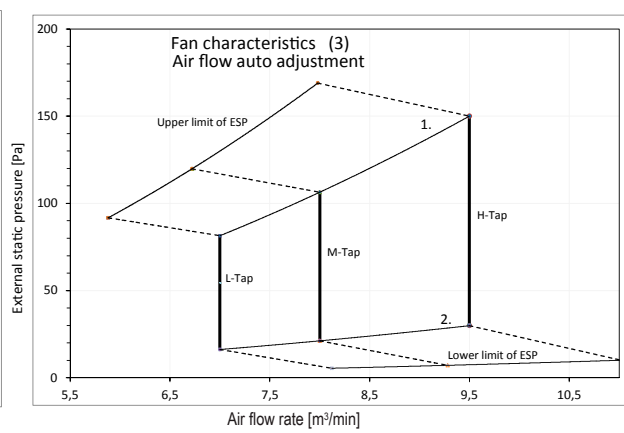
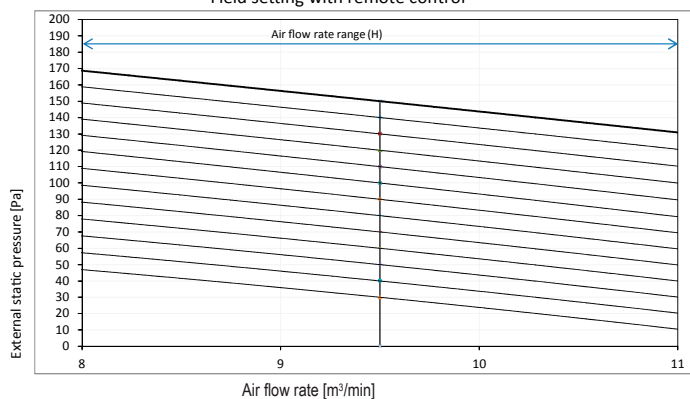
3D095680A

FXSQ32A FXSA32A



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	30

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

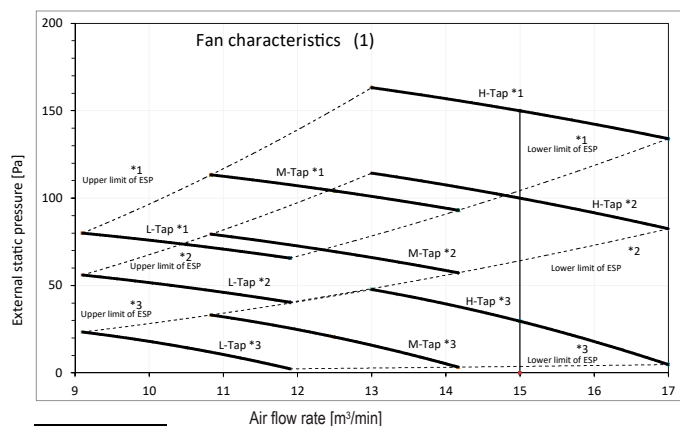
Notes

1. The fan characteristics shown are in "fanonly" mode.
2. ESP: External Static Pressure

3D095681A

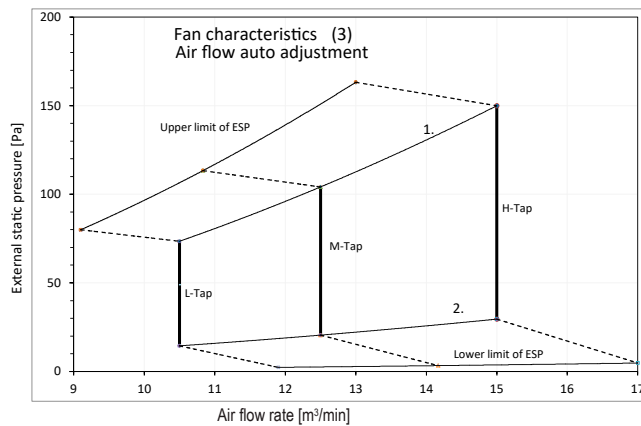
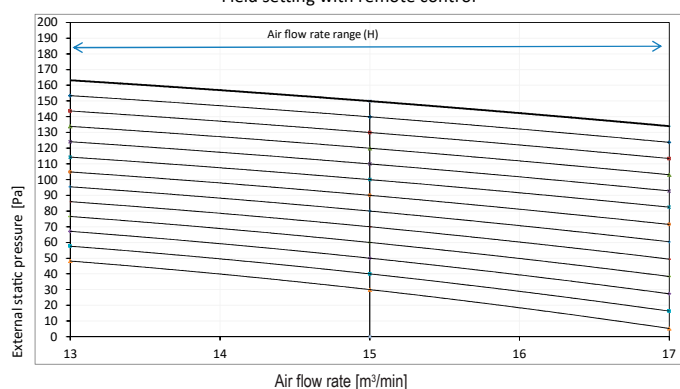


FXSQ40A FXSA40A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	30

Fan characteristics (2)
Field setting with remote control



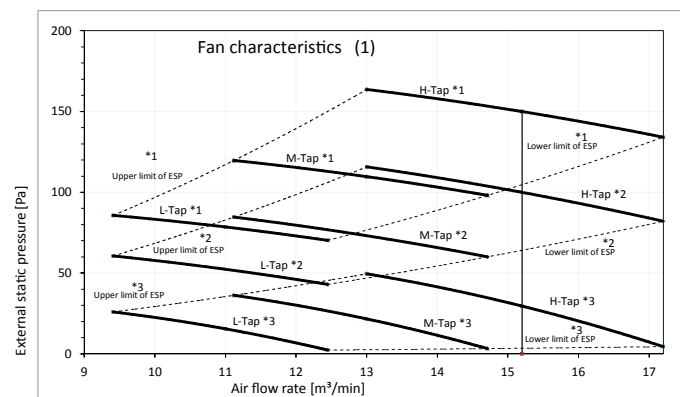
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

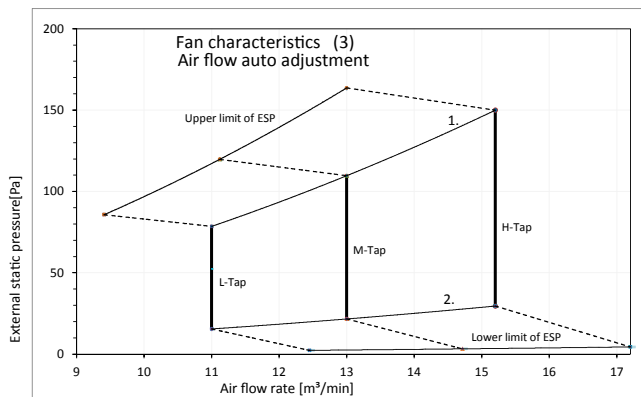
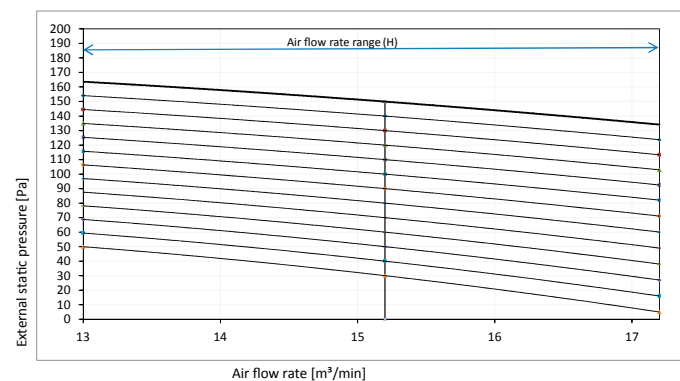
3D095682A

FXSQ50A FXSA50A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	30

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

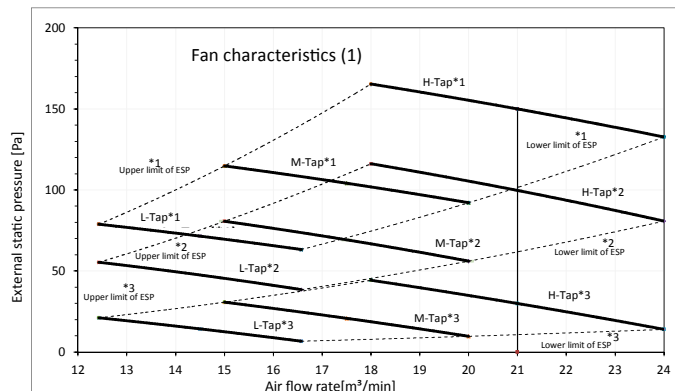
Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095688A

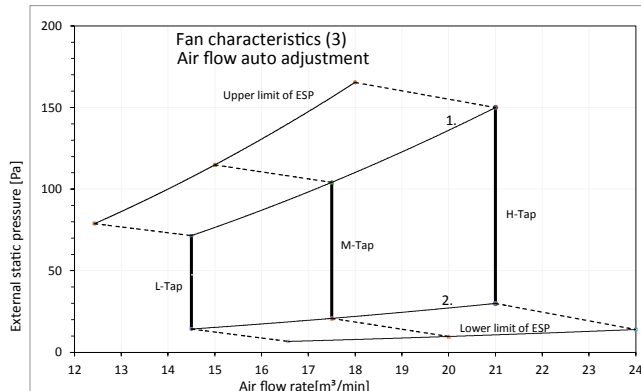
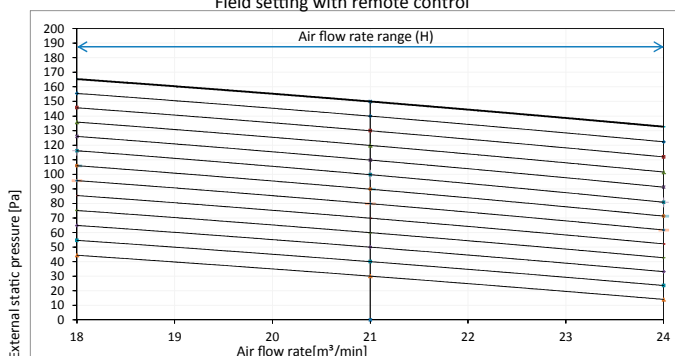


FXSQ63A FXSA63A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	30

Fan characteristics (2)
Field setting with remote control

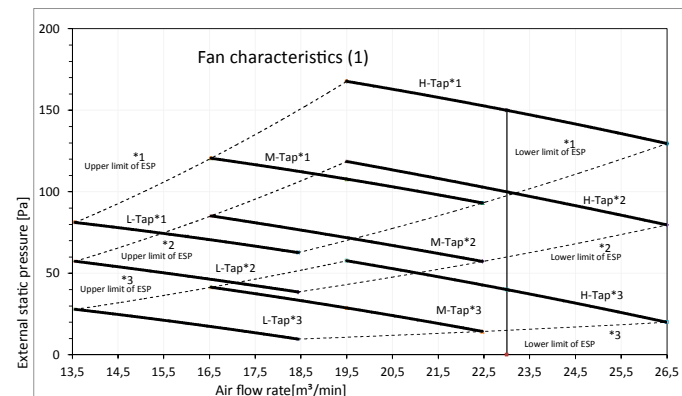


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

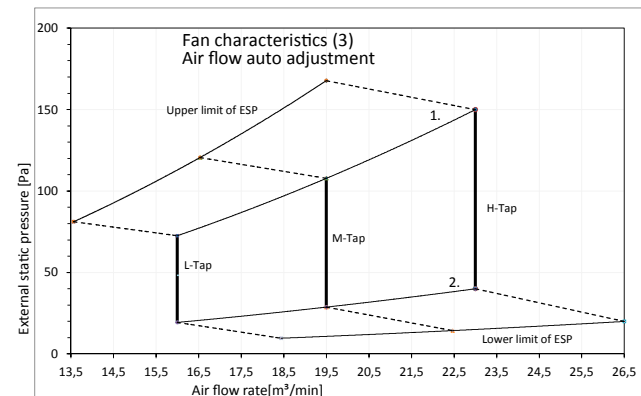
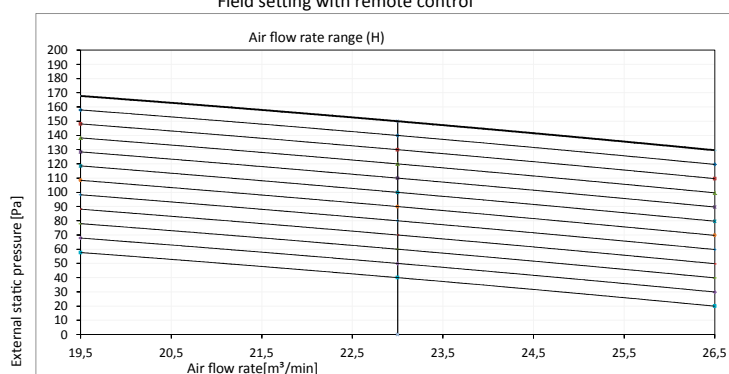
3D095690A

FXSQ80A FXSA80A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	40

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

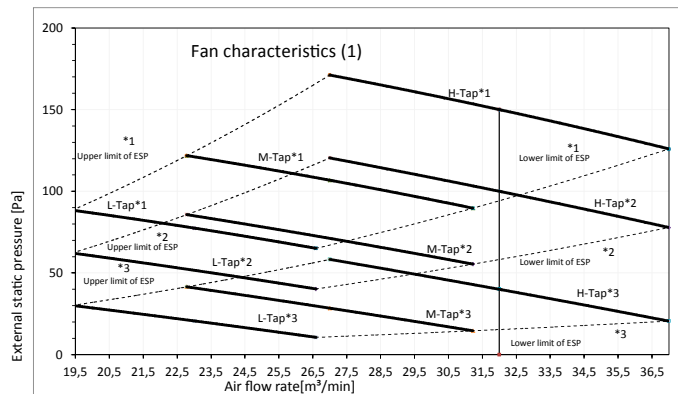
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095692A



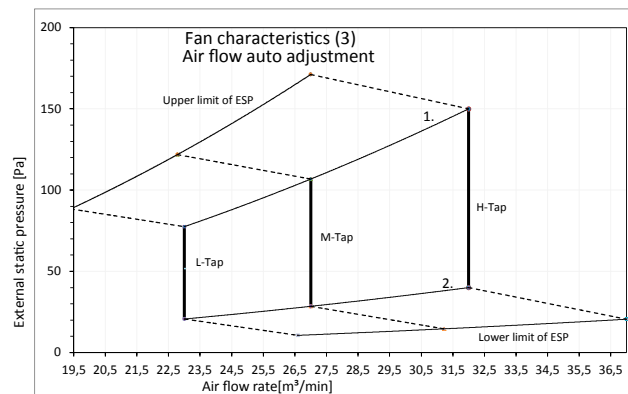
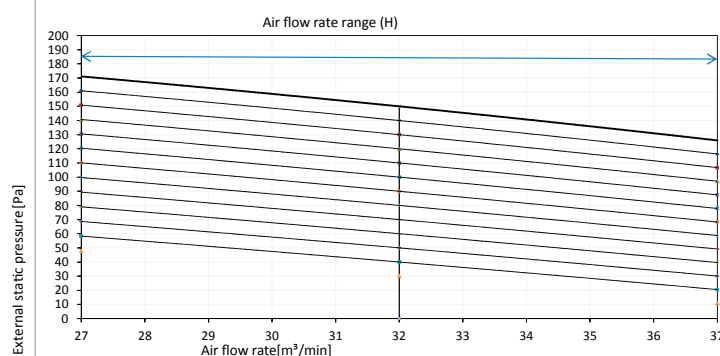
Detailed technical drawings

FXSQ100A FXSA100A



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	40

Fan characteristics (2)
Field setting with remote control



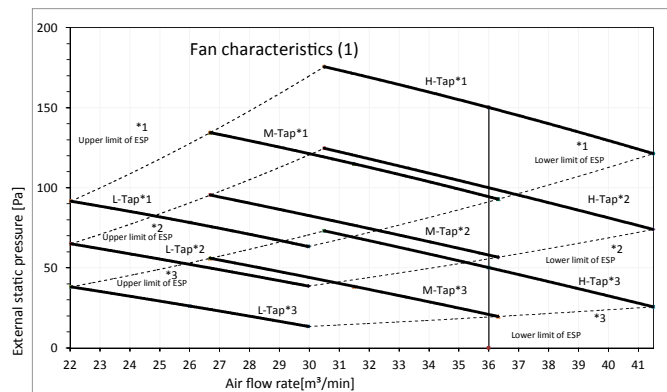
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

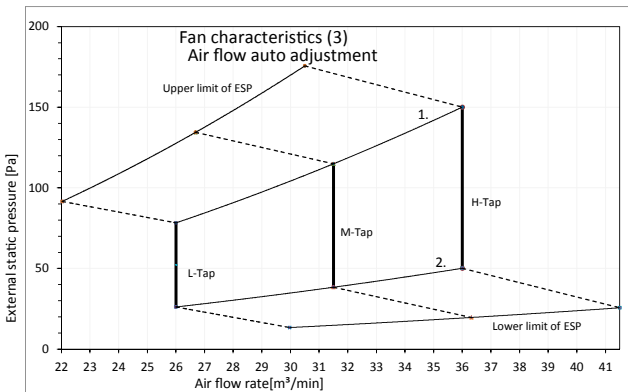
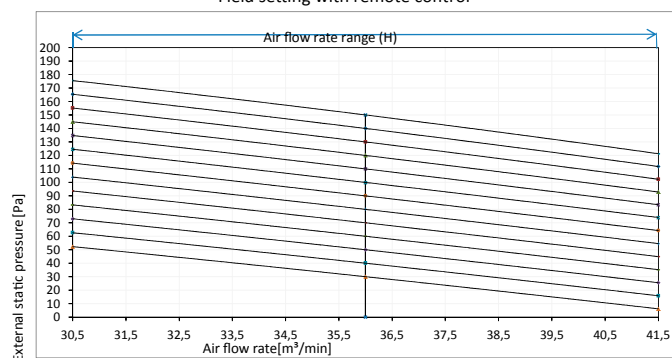
3D095696A

FXSQ125A FXSA125A



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	40

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

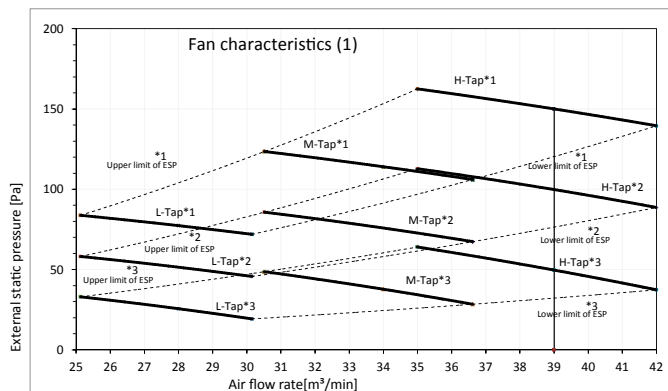
Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095697A

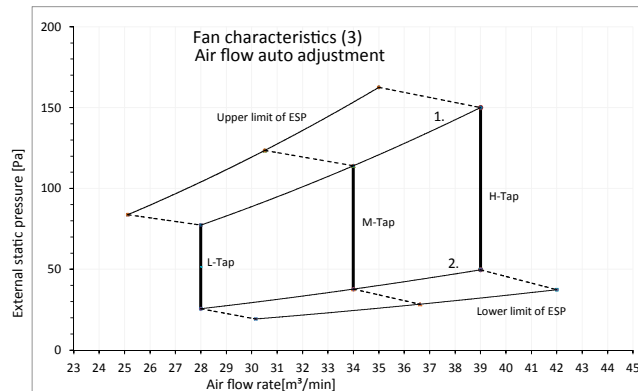
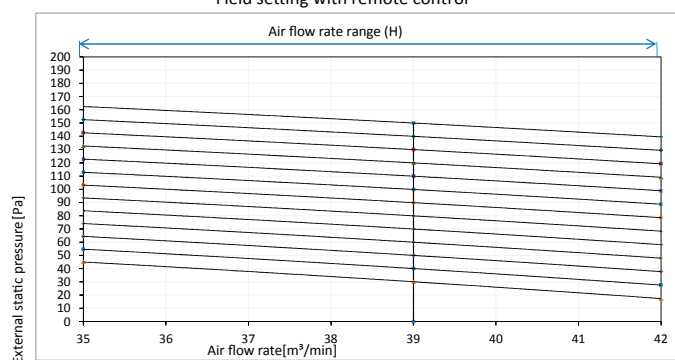


FXSQ140A FXSA140A



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	50

Fan characteristics (2)
Field setting with remote control

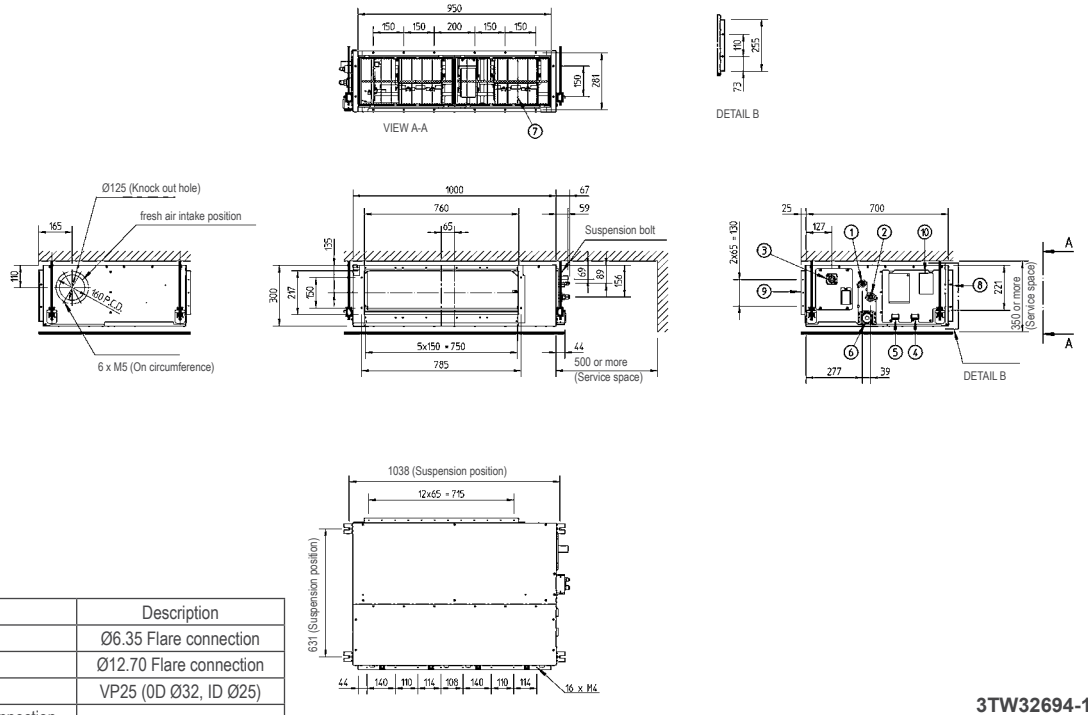


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

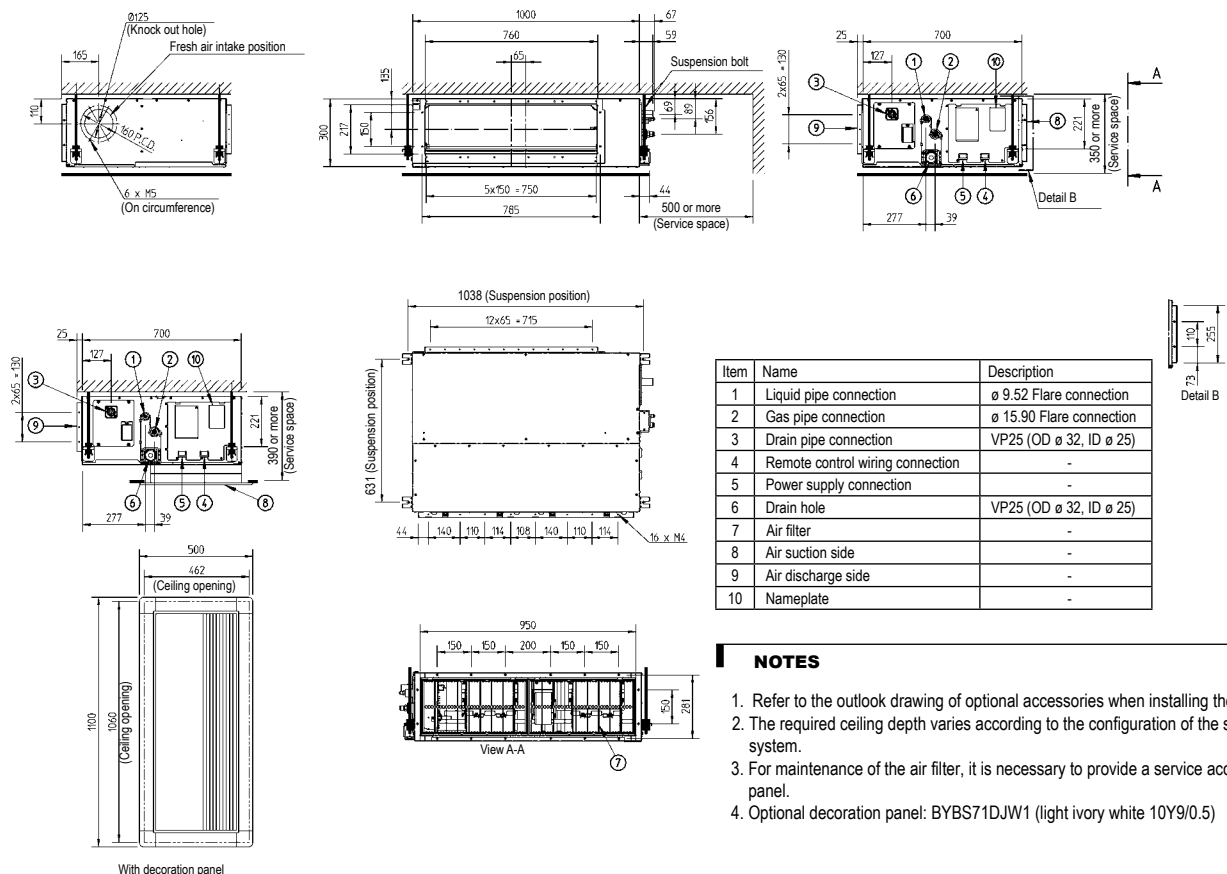
3D096688A

FXMQ50P7

Item	Name	Description
1	Liquid pipe connection	Ø6.35 Flare connection
2	Gas pipe connection	Ø12.70 Flare connection
3	Drain pipe connection	VP25 (0D Ø32, ID Ø25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP20 (0D Ø32, ID Ø25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

NOTES

- 1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
- 2 The required ceiling depth varies according to the configuration of the specific system.
- 3 For maintenance of the air filter, it is necessary to provide a service access panel.
Refer to the 'filter installation method' drawing.

FXMQ63-80P7

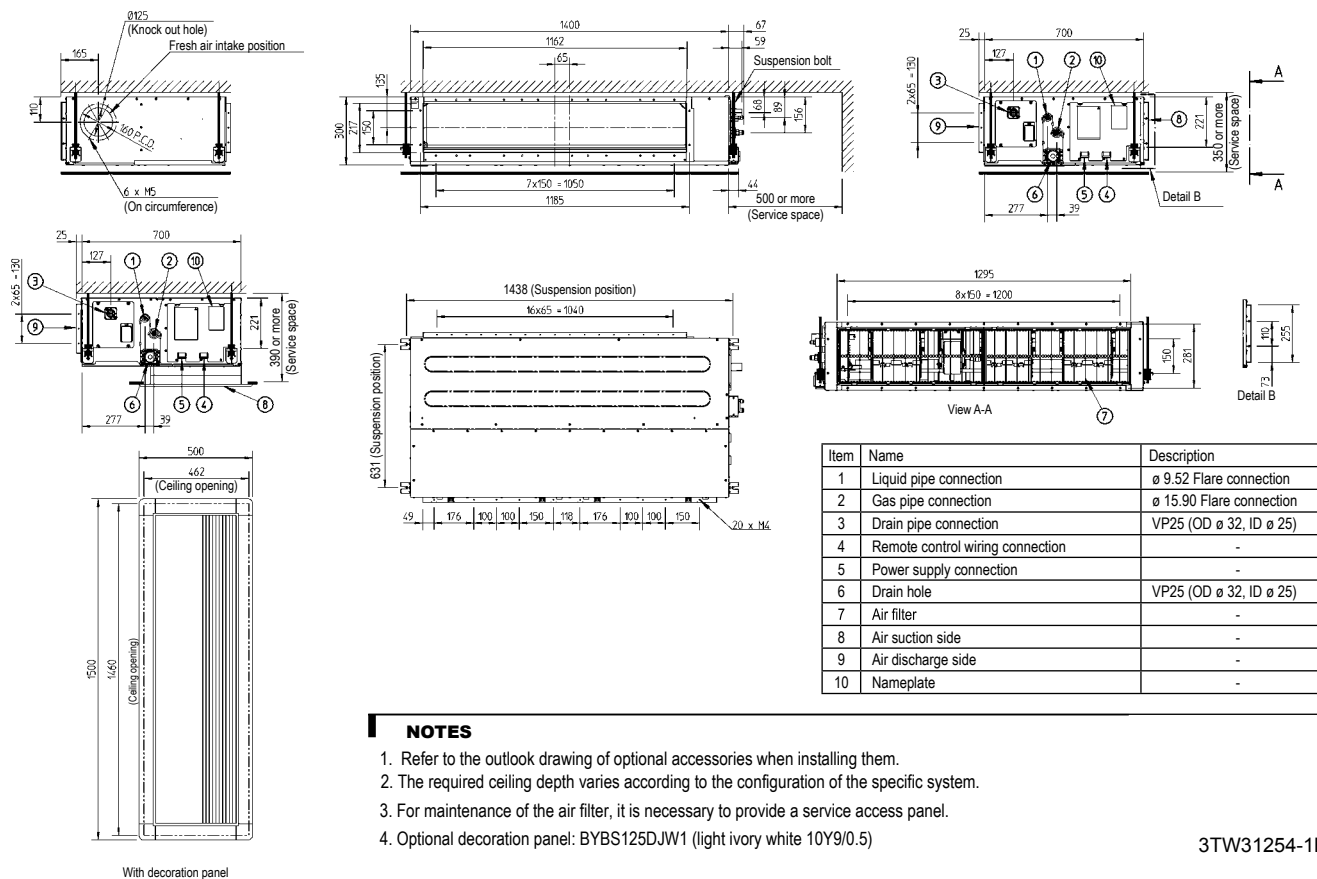
Item	Name	Description
1	Liquid pipe connection	ø 9.52 Flare connection
2	Gas pipe connection	ø 15.90 Flare connection
3	Drain pipe connection	VP25 (OD ø 32, ID ø 25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP25 (OD ø 32, ID ø 25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

NOTES

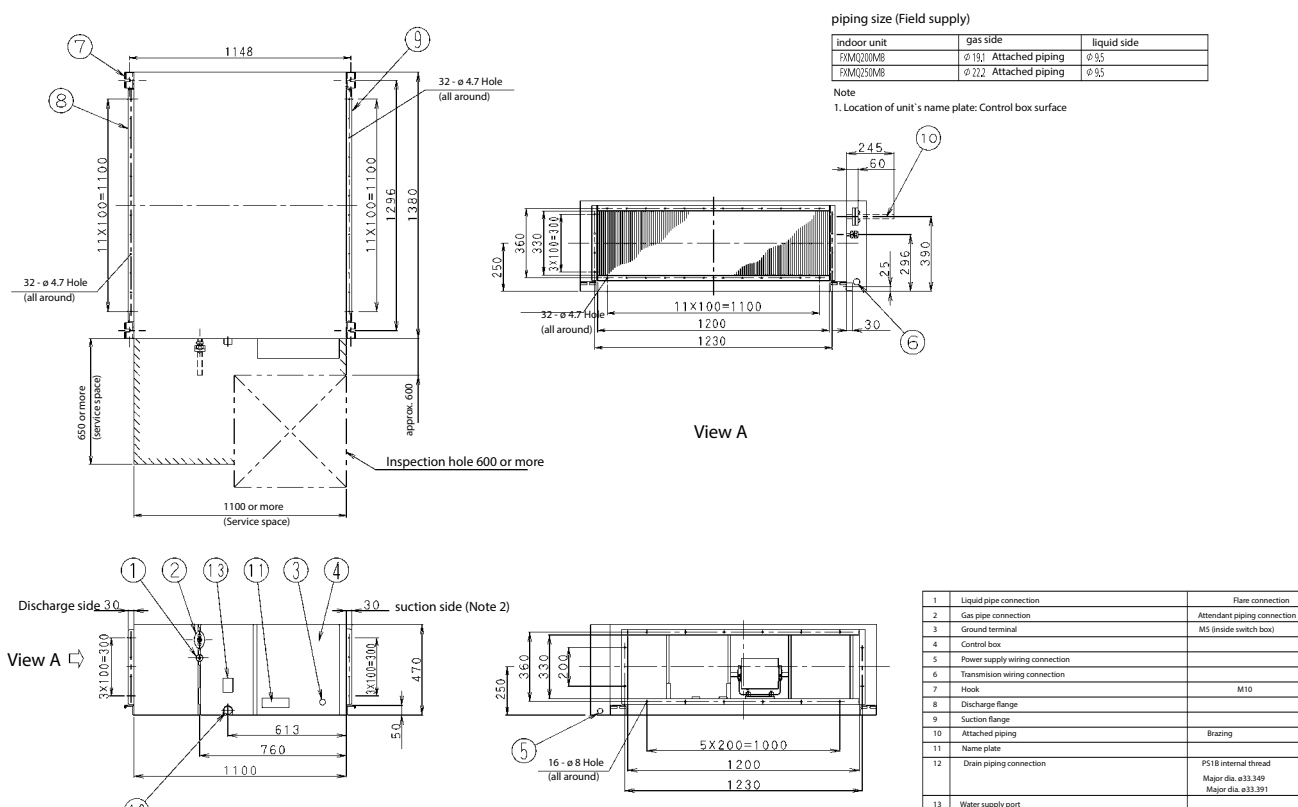
1. Refer to the outlook drawing of optional accessories when installing them.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)



FXMQ100-125P7



FXMQ-MB

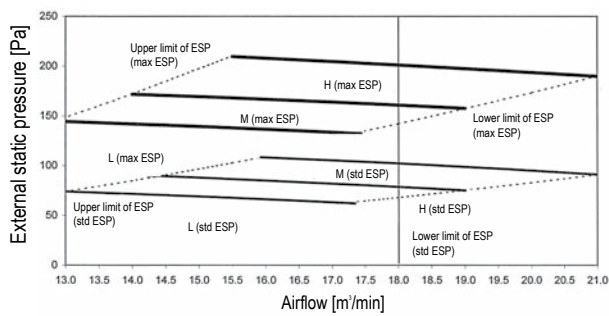


3D096007

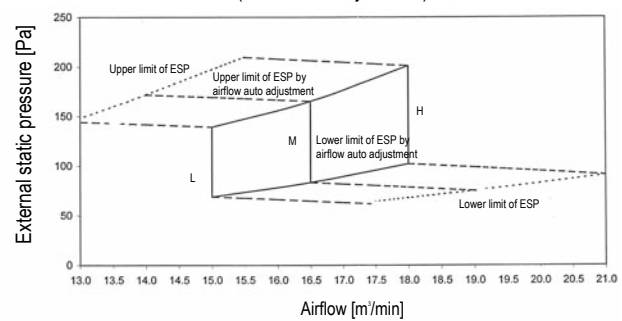


FXMQ50P7

Fan characteristics (1)

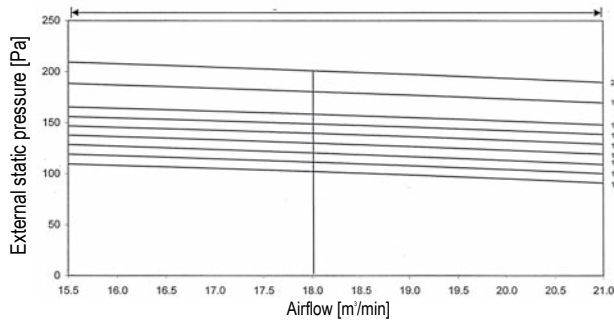


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



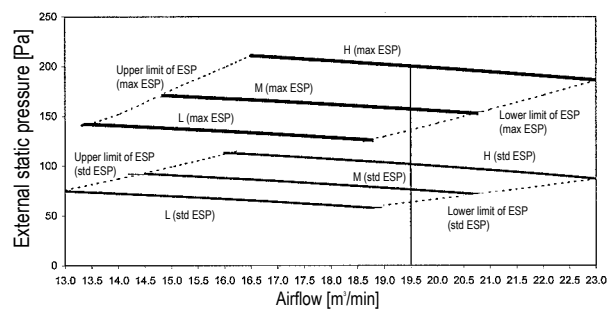
3TW32698-1

NOTES

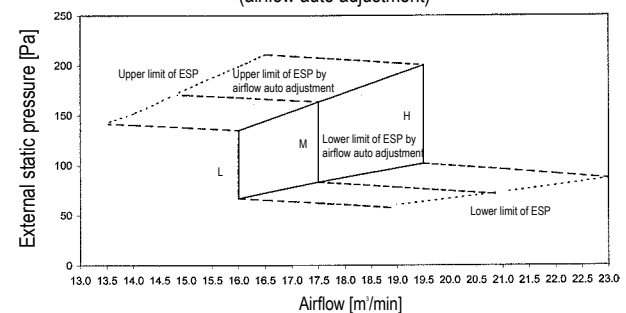
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ63P7

Fan characteristics (1)

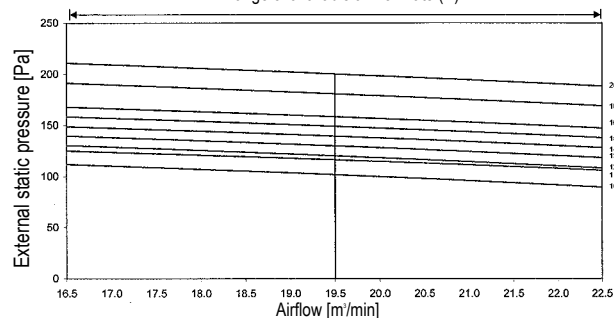


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



3TW32708-1

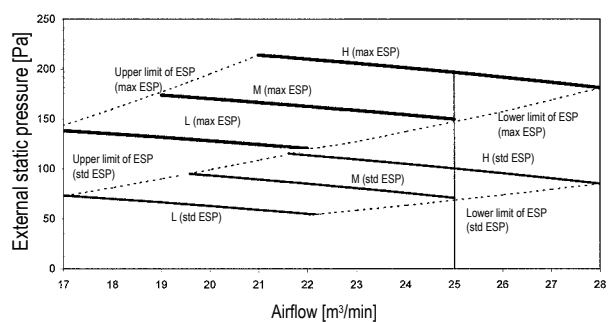
NOTES

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

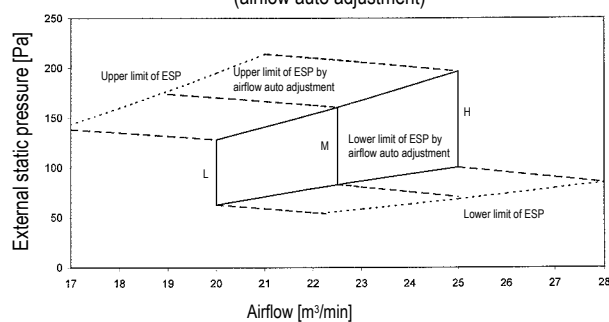


FXMQ80P7

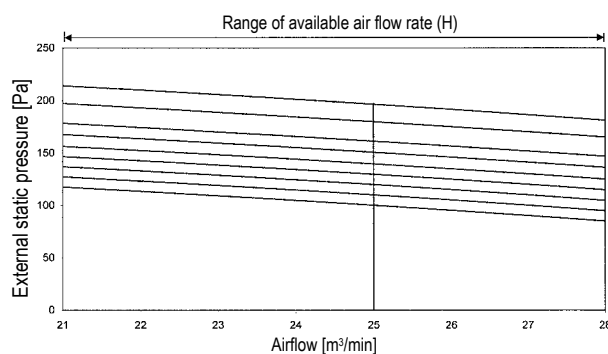
Fan characteristics (1)



Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)



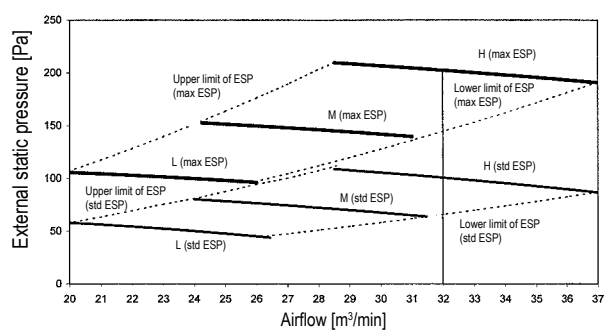
3TW32718-1

NOTES

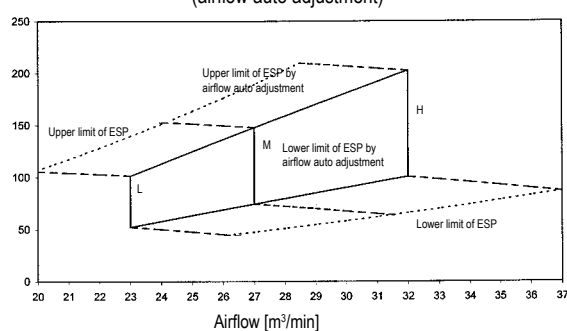
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ100P7

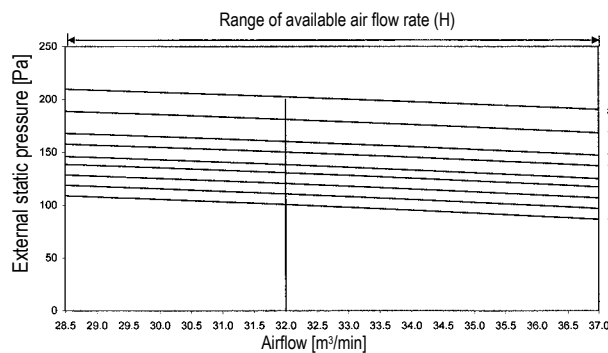
Fan characteristics (1)



Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)



3TW32728-1

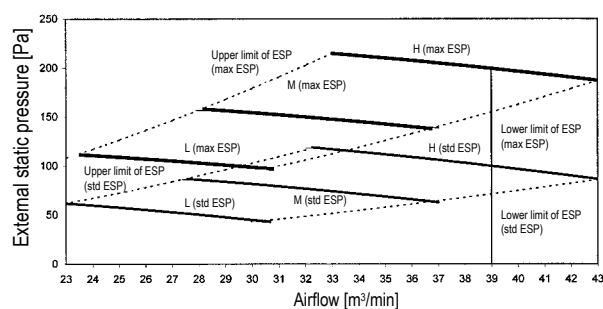
NOTES

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure.

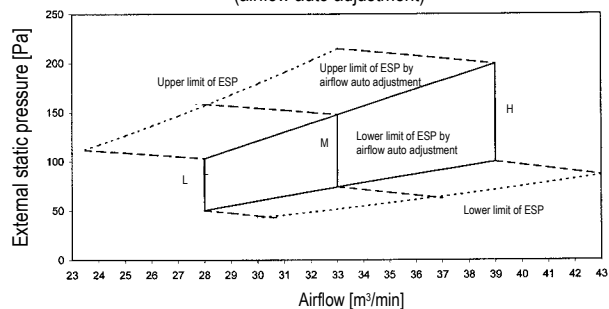


FXMQ125P7

Fan characteristics (1)

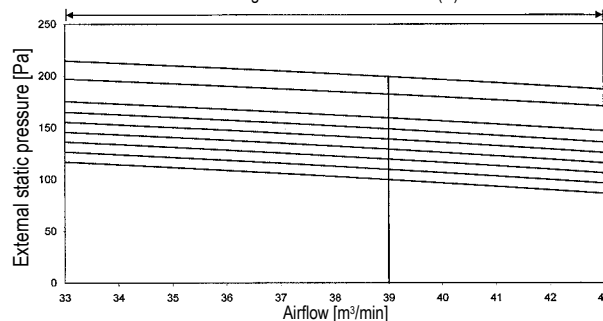


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



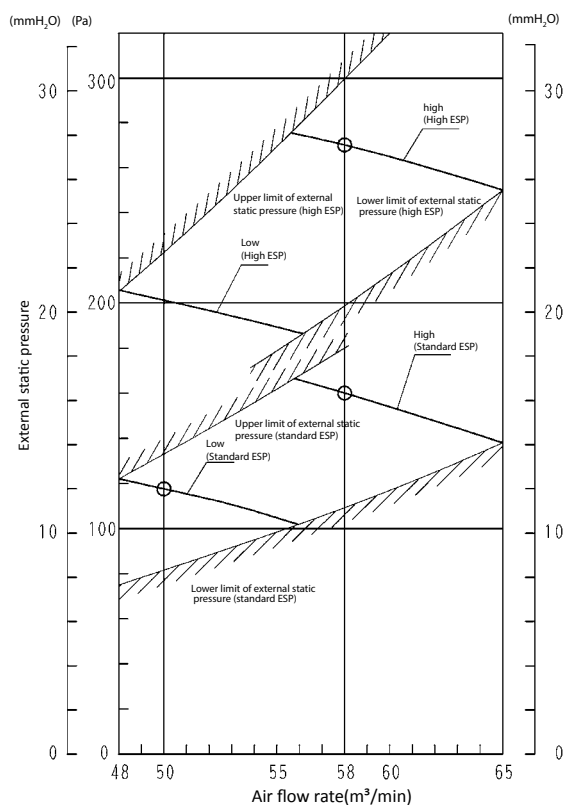
3TW32738-1

NOTES

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ200MB

50Hz 220-240V



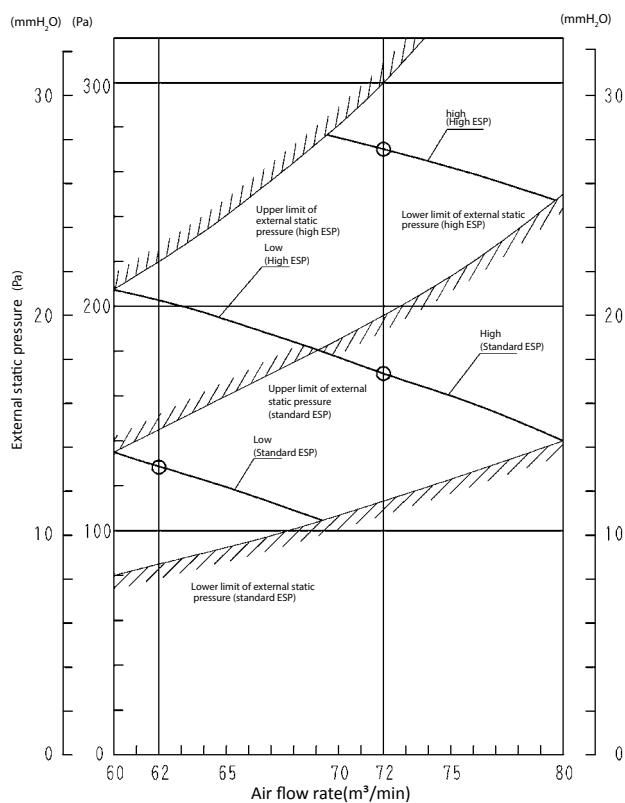
- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
 2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

4D095421



FXMQ250MB

50Hz 220-240V

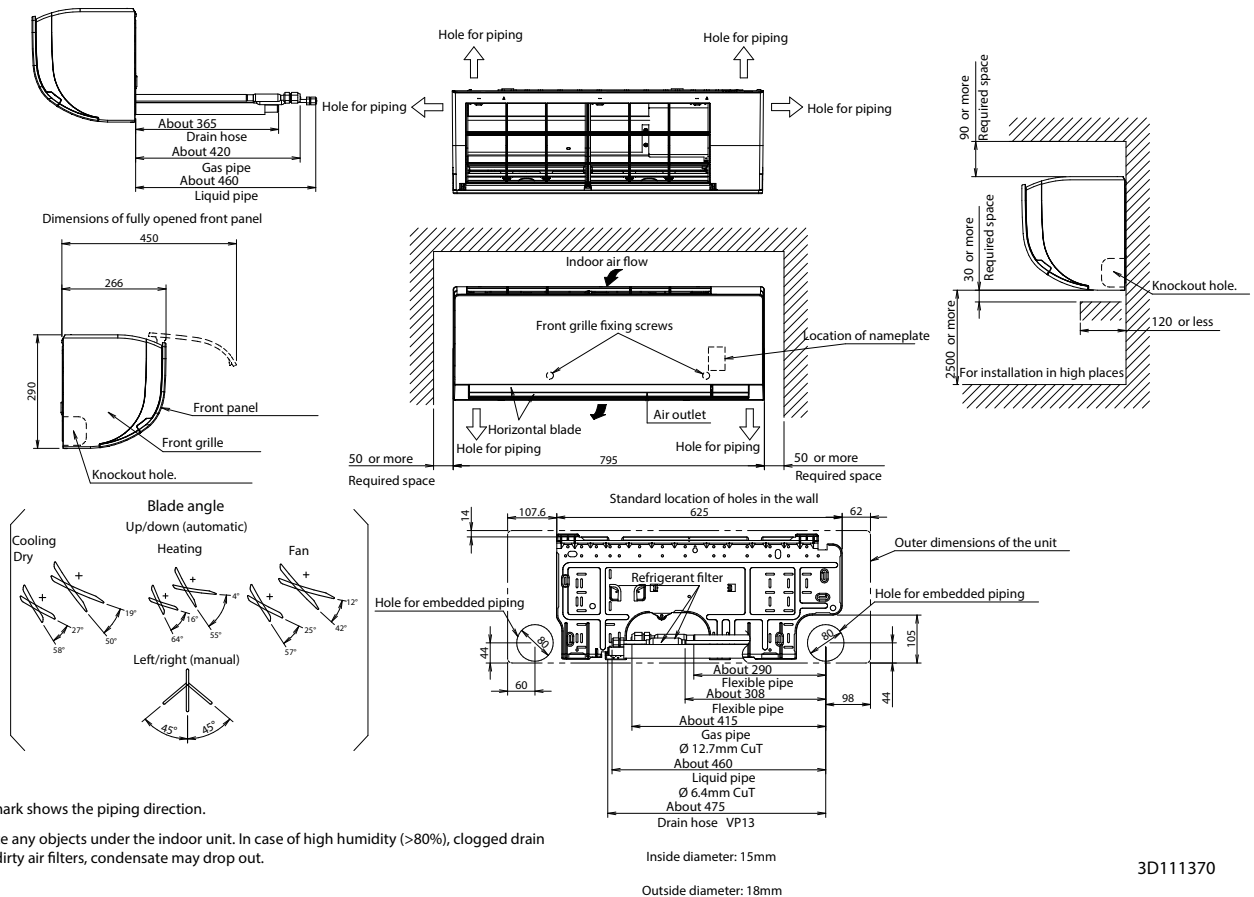


Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

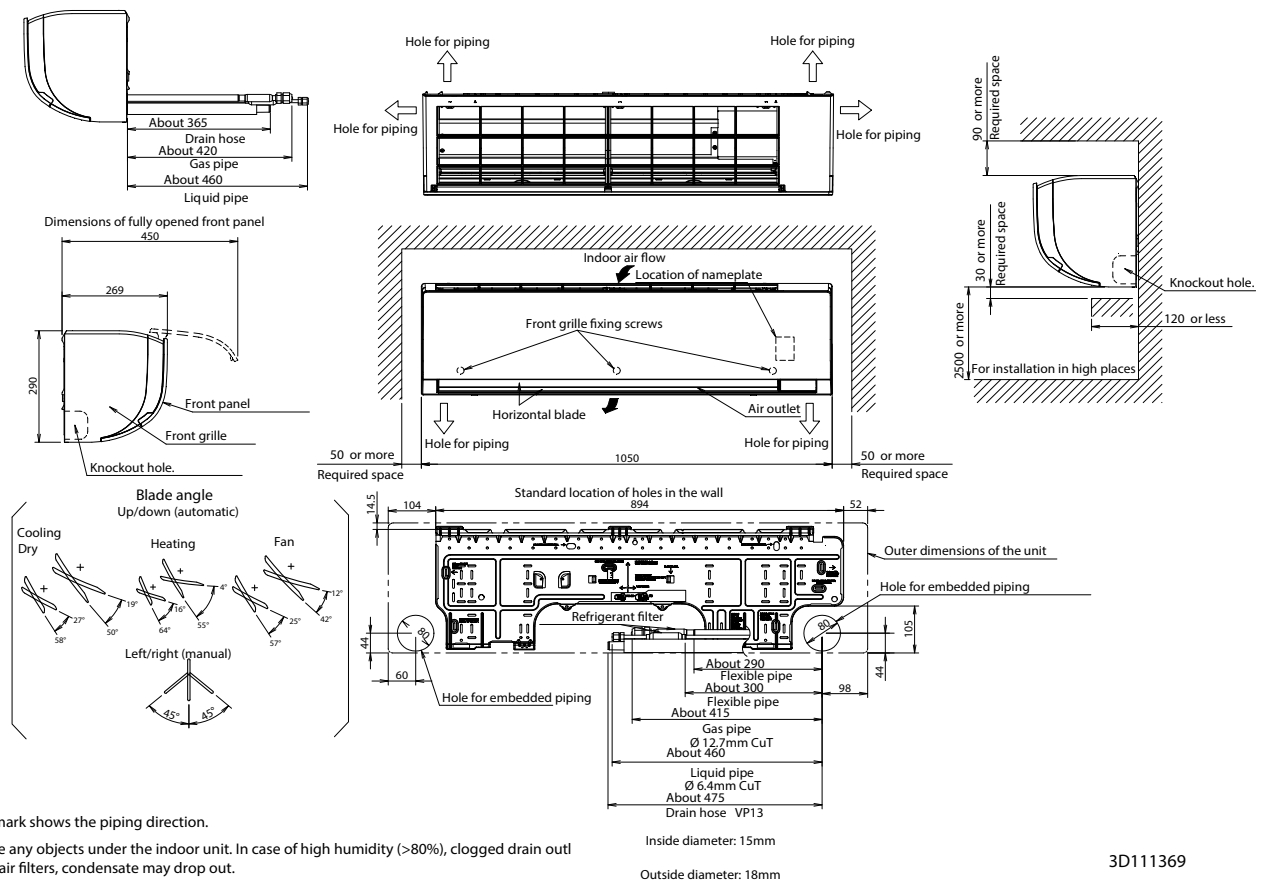
4D095422



FXAQ15-32A

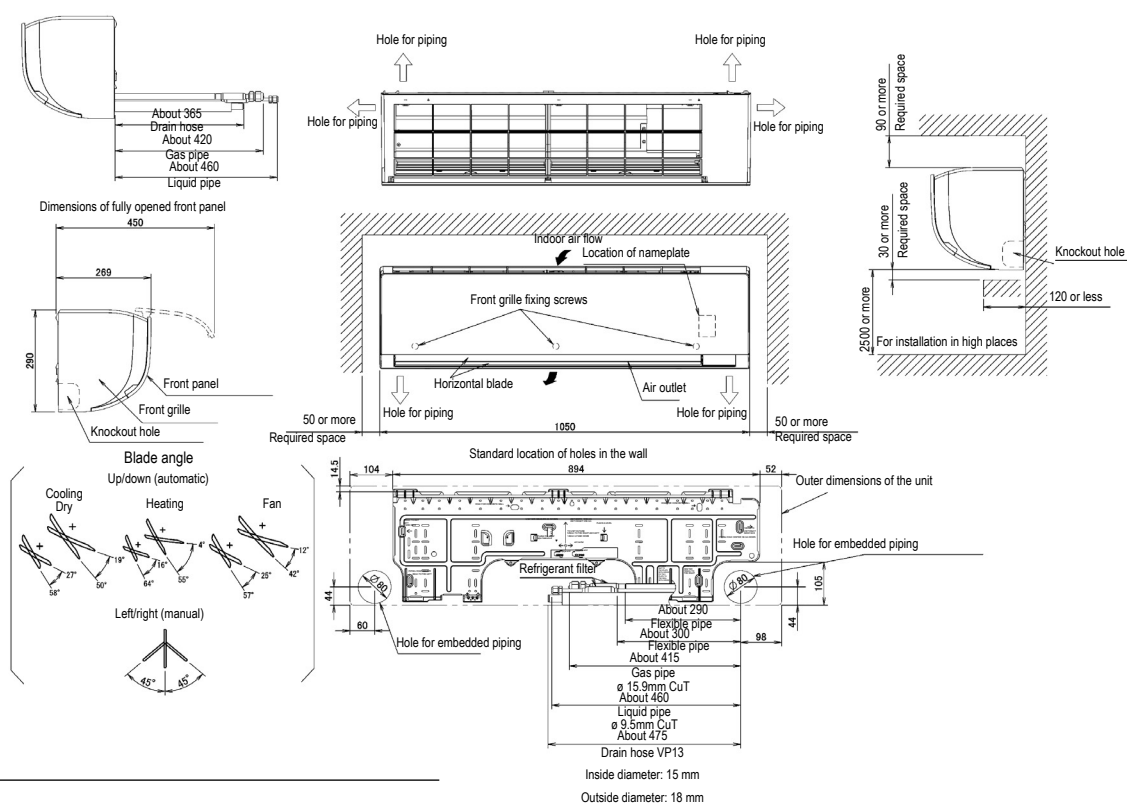


FXAQ40-50A





FXAQ63A



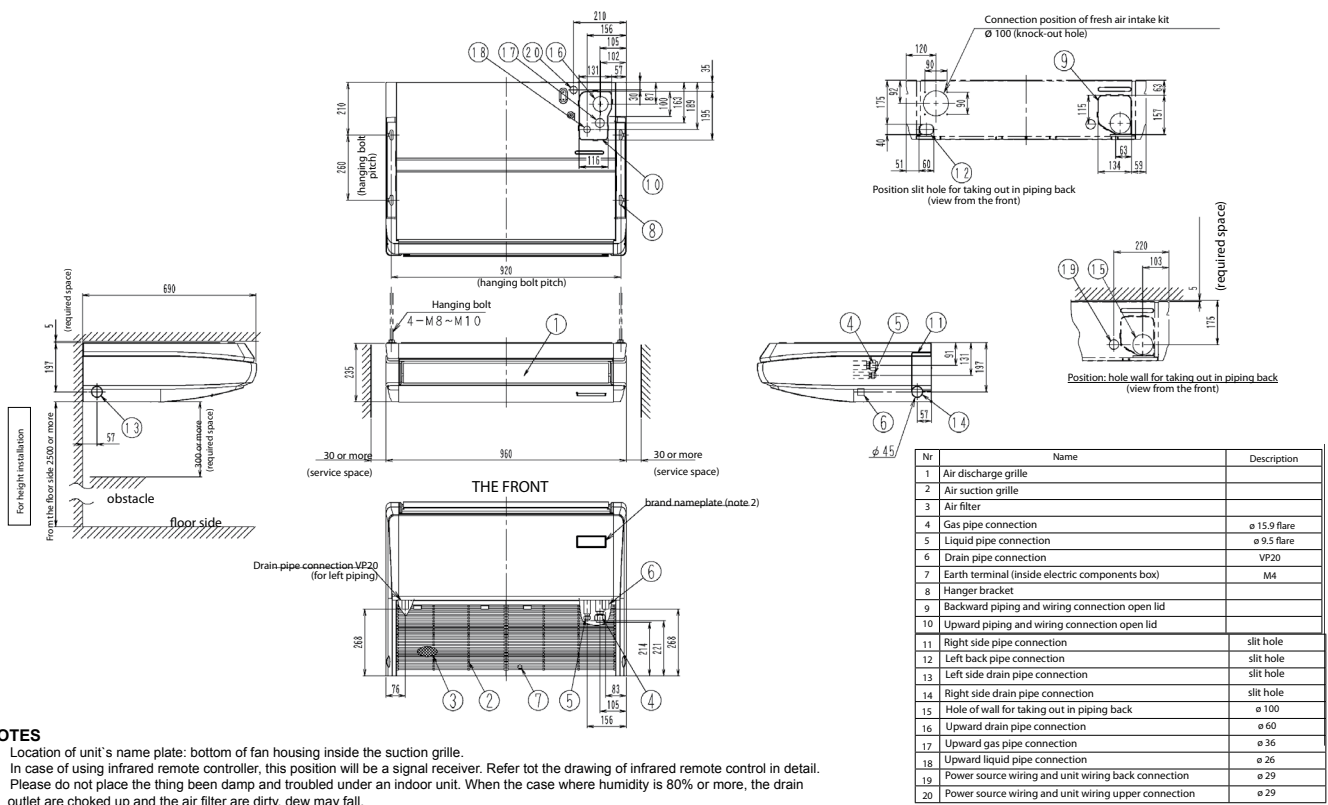
NOTES

1. The 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.

3D111368

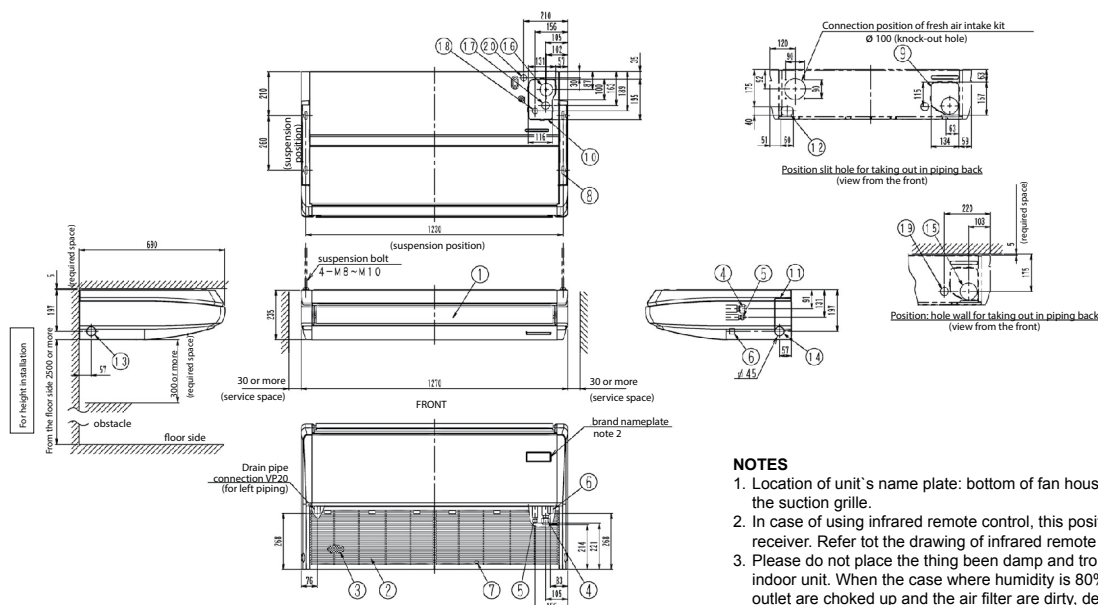


FXHQ32A



3D080029

FXHQ63A



NOTES

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

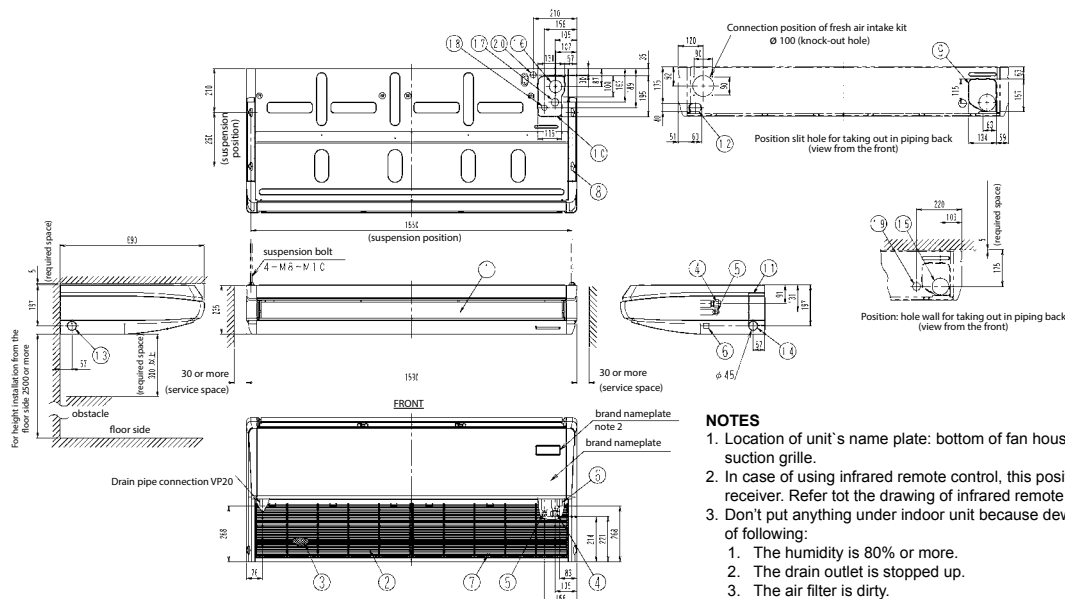
Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 15.9 flare
5	Liquid pipe connection	ø 9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection open lid	
10	Upward piping and wiring connection open lid	

11	Right side pipe connection	slit hole
12	Left back pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power source wiring and unit wiring back connection	ø 29
20	Power source wiring and unit wiring upper connection	ø 29

3D069632A



FXHQ100A



Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 15.9 flare
5	Liquid pipe connection	ø 9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection open lid	
10	Upward piping and wiring connection open lid	

11	Right side pipe connection	slit hole
12	Left back pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power source wiring and unit wiring back connection	ø 29
20	Power source wiring and unit wiring upper connection	ø 29

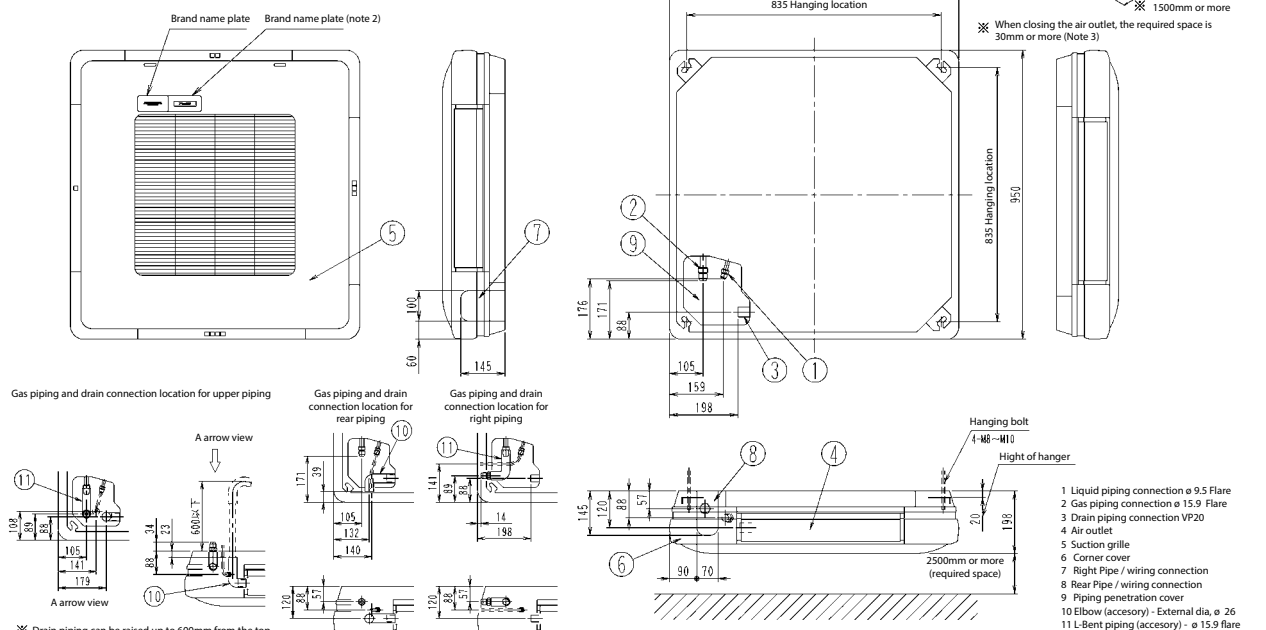
3D069633D

FXUQ-A

Notes:

1. Sticking locations for manufacturer's label: On the control box lid inside suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
4. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity in more 80% or more, and drain outlet are choked up and the air filter is dirty, dew may fail.

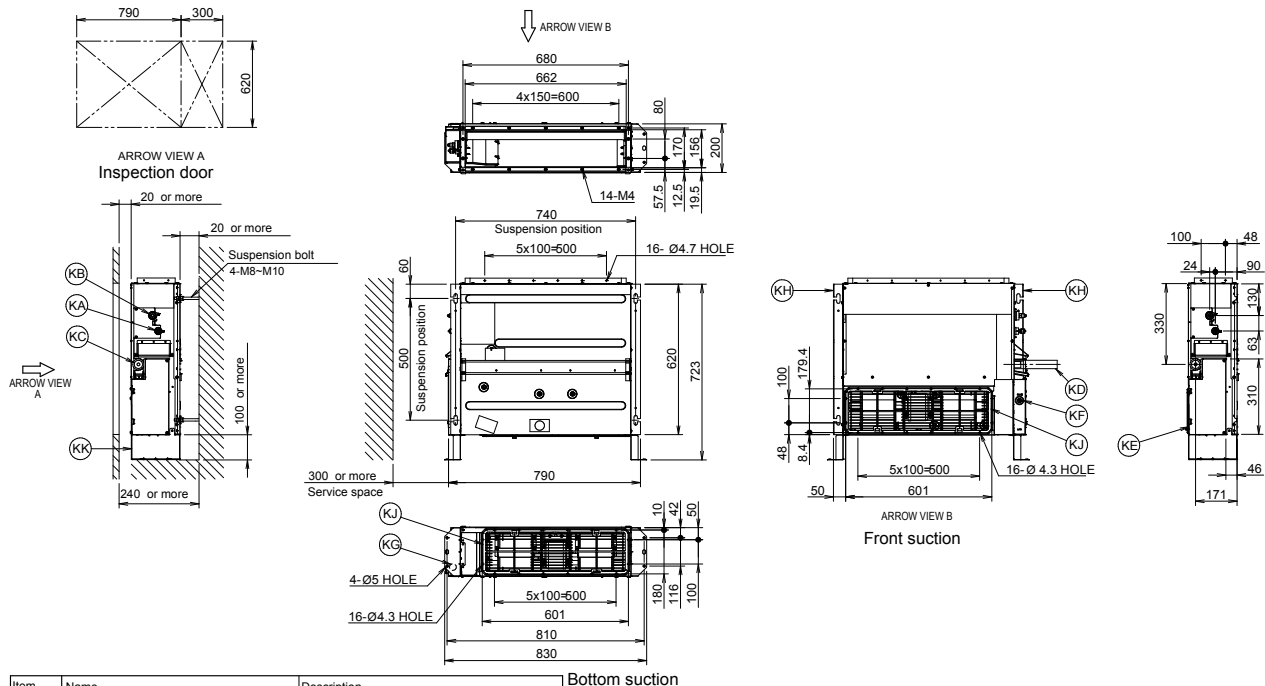
(Unit: mm)



3D080135



FXNQ20-32A



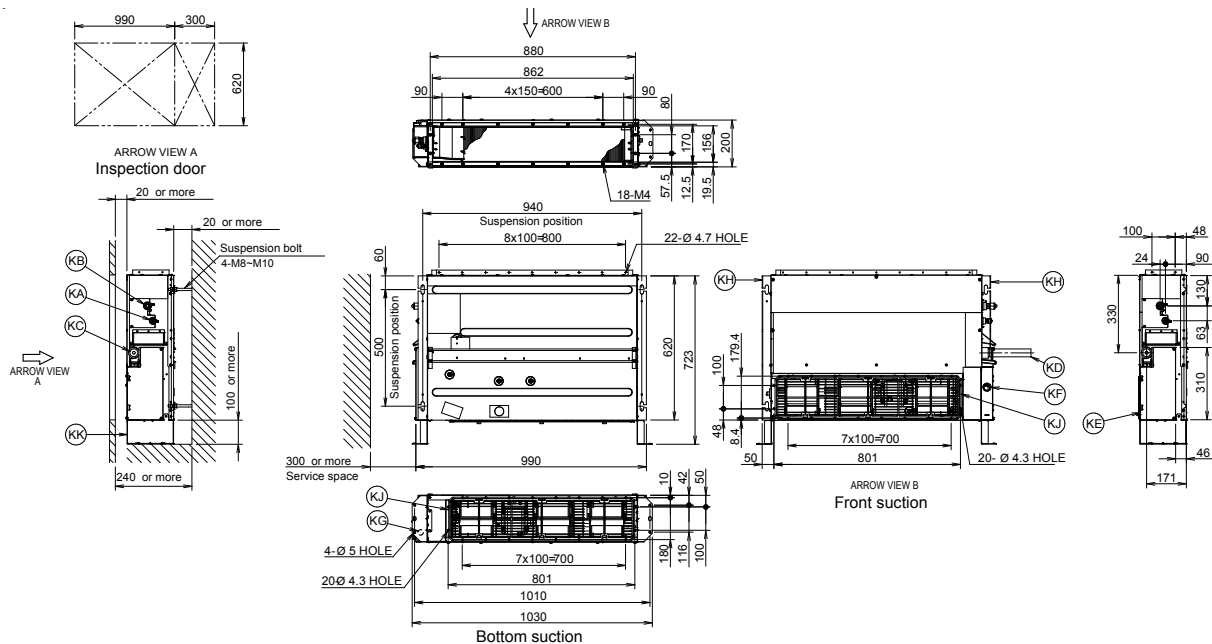
Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø12.7 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Bottom suction

- 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



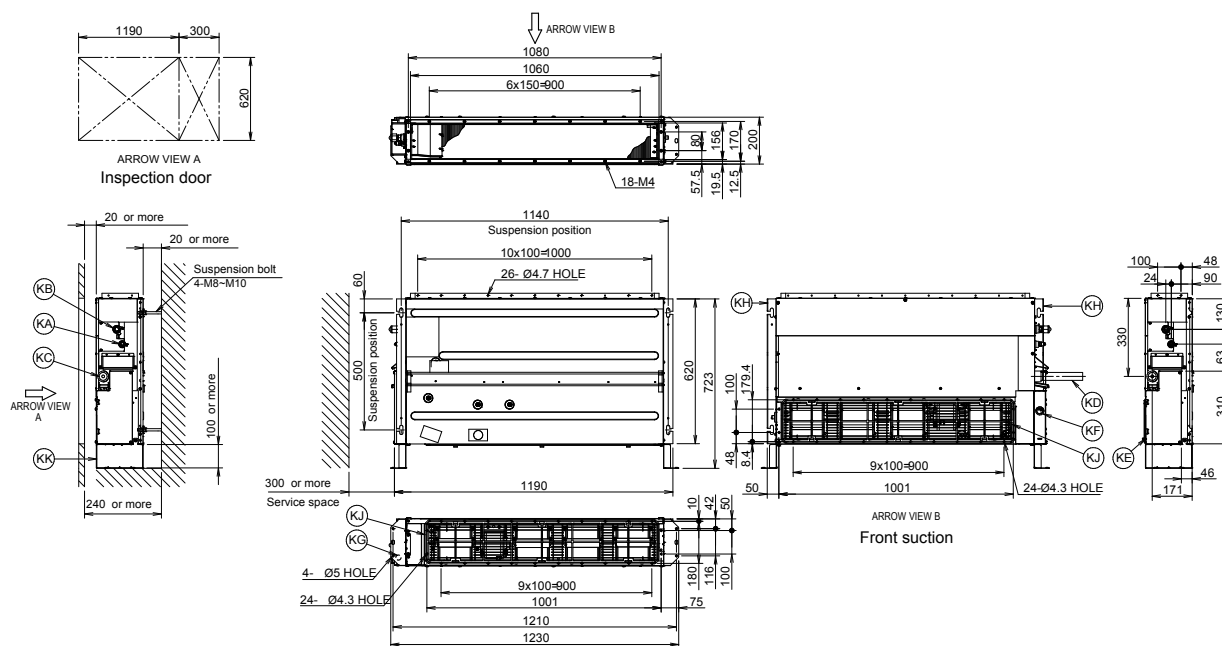
Item	Name	Description
KA	Liquid pipe connection port	Ø6.4 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
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.

3D096747



FXNQ63A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.9 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	/

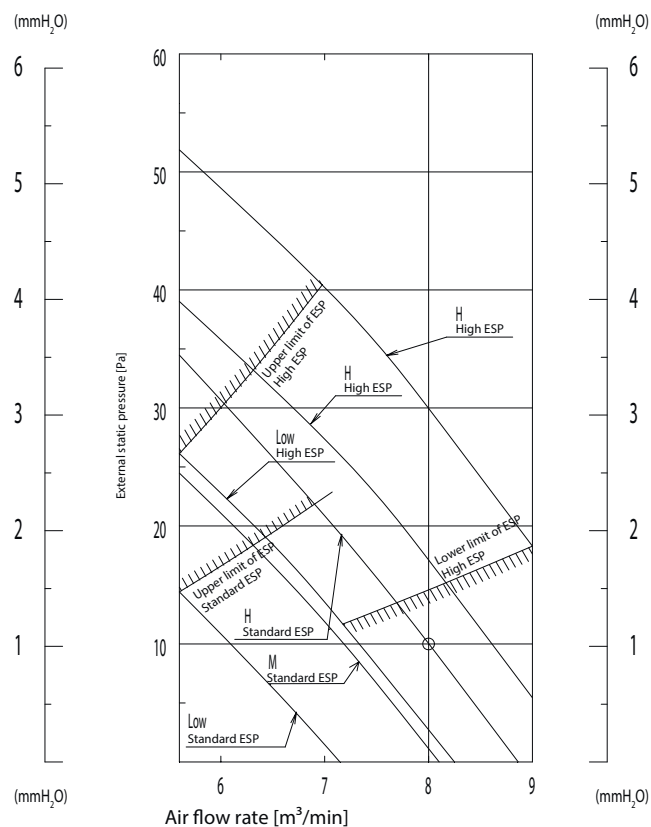
Bottom suction

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



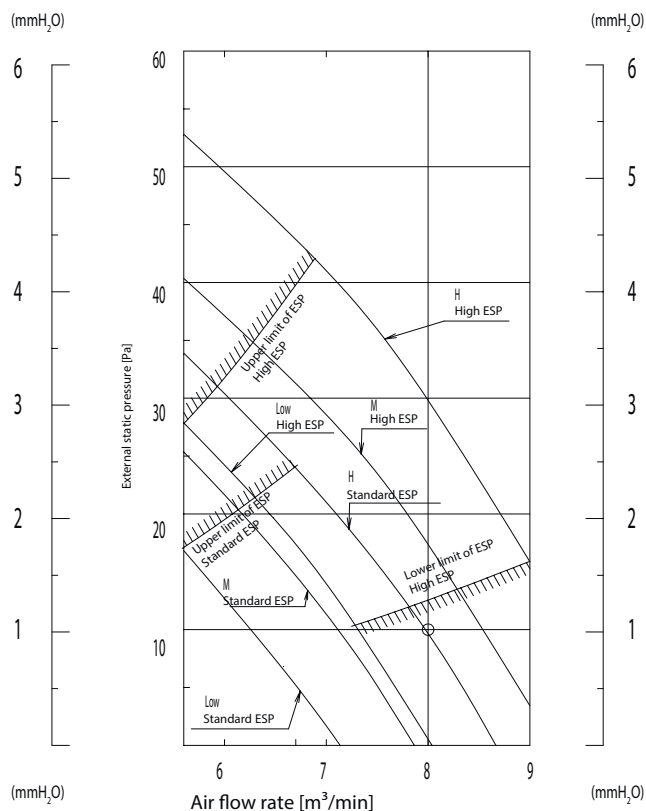
Notes

- 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



FXNQ32A



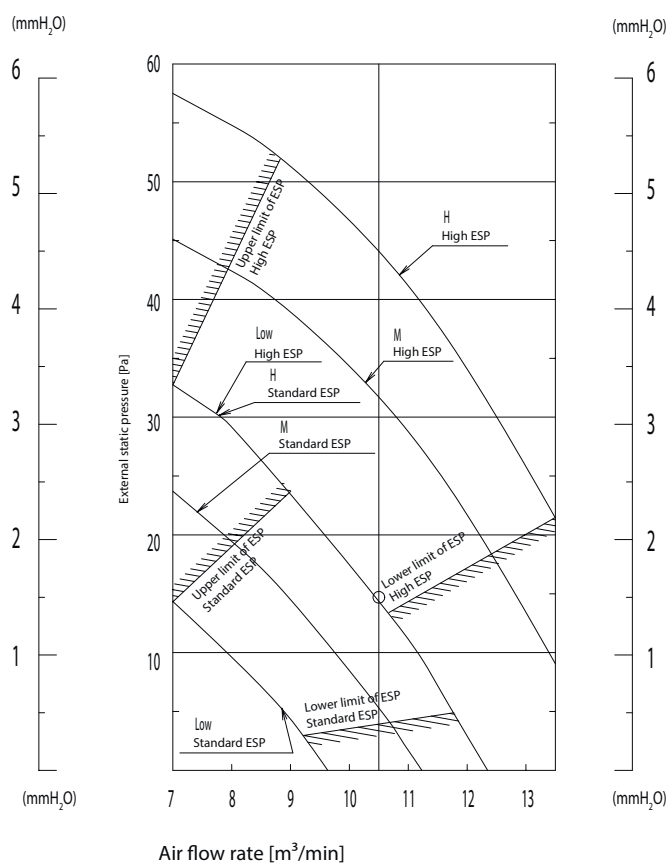
Notes

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



Notes

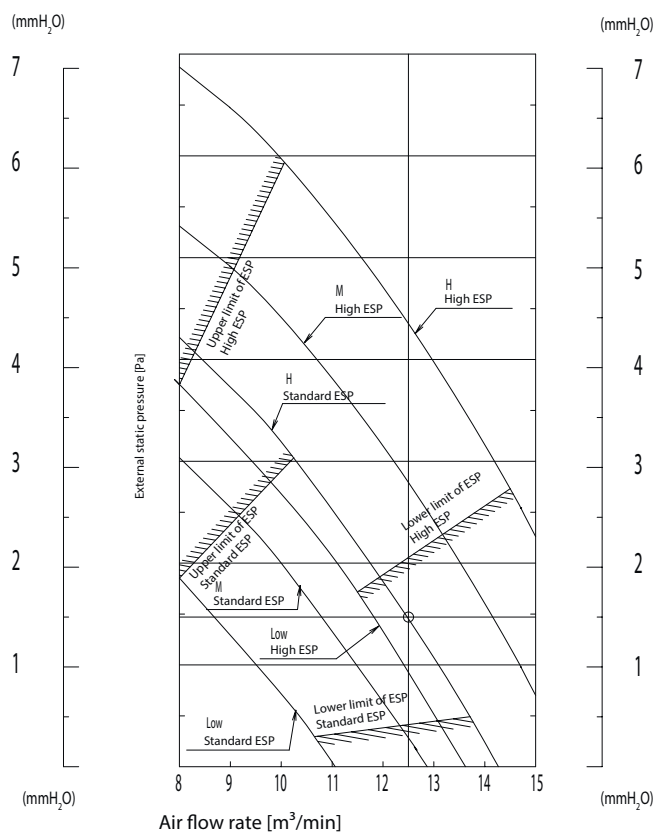
The remote controller can be used to switch between 'high' and 'low'.

The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081426C



FXNQ50A

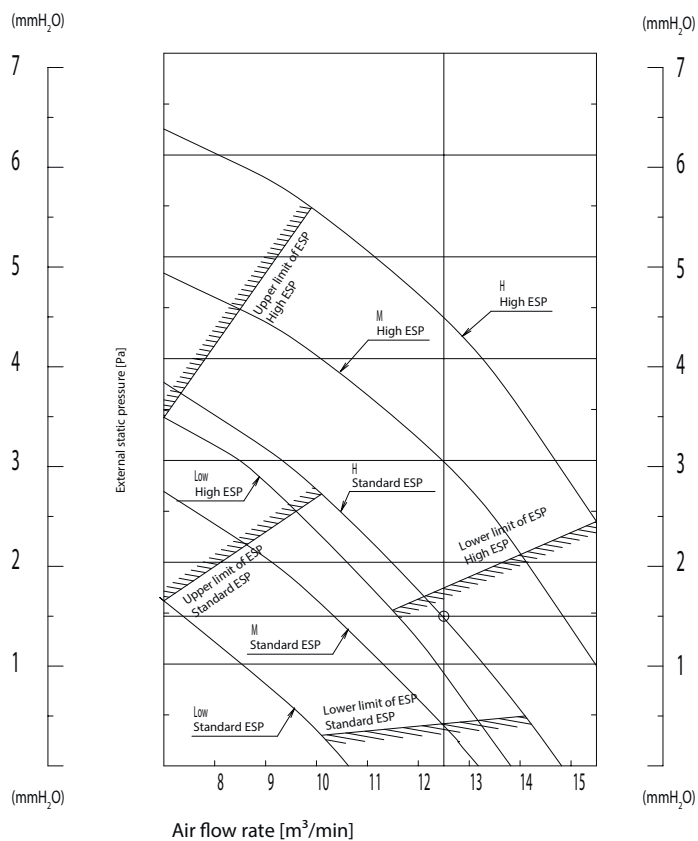


Notes

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



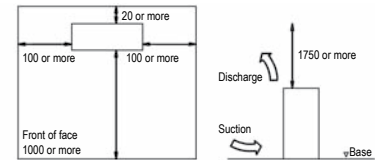
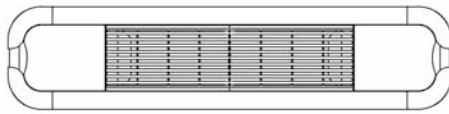
Notes

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.

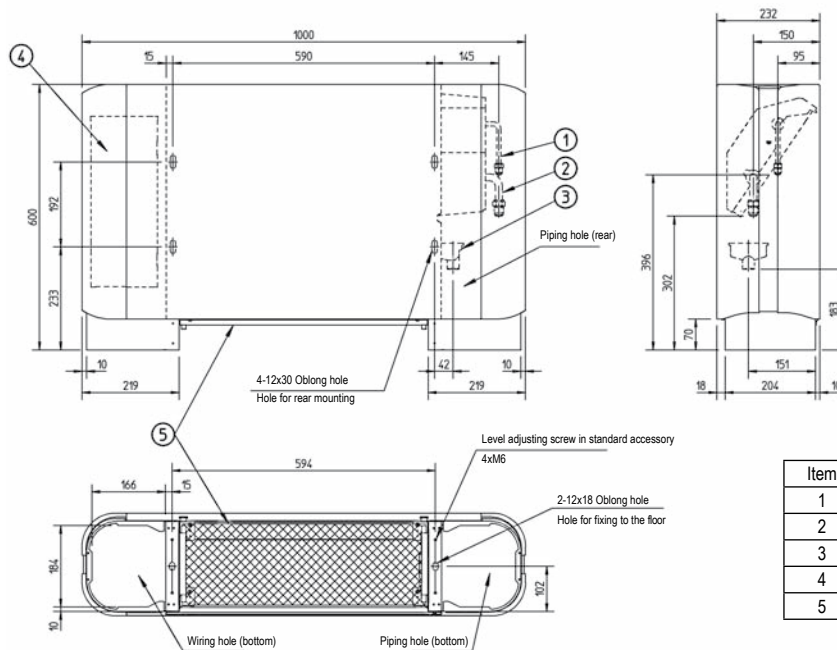
3D081429C



FXLQ20-25P



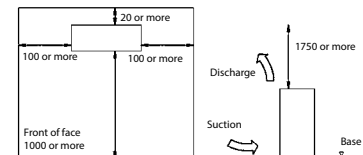
Required installation space



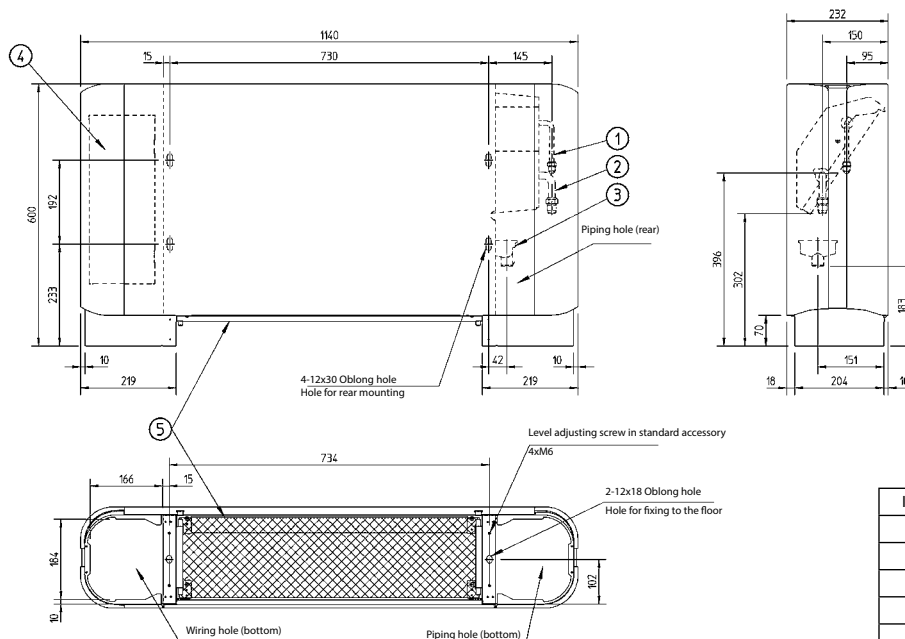
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D. Ø21
4	Switch box	
5	Air filter	

3TW32294-1

FXLQ32-40P



Required installation space

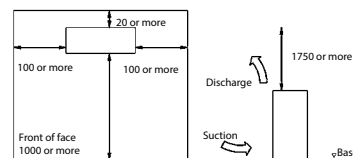


Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D. Ø21
4	Switch box	
5	Air filter	

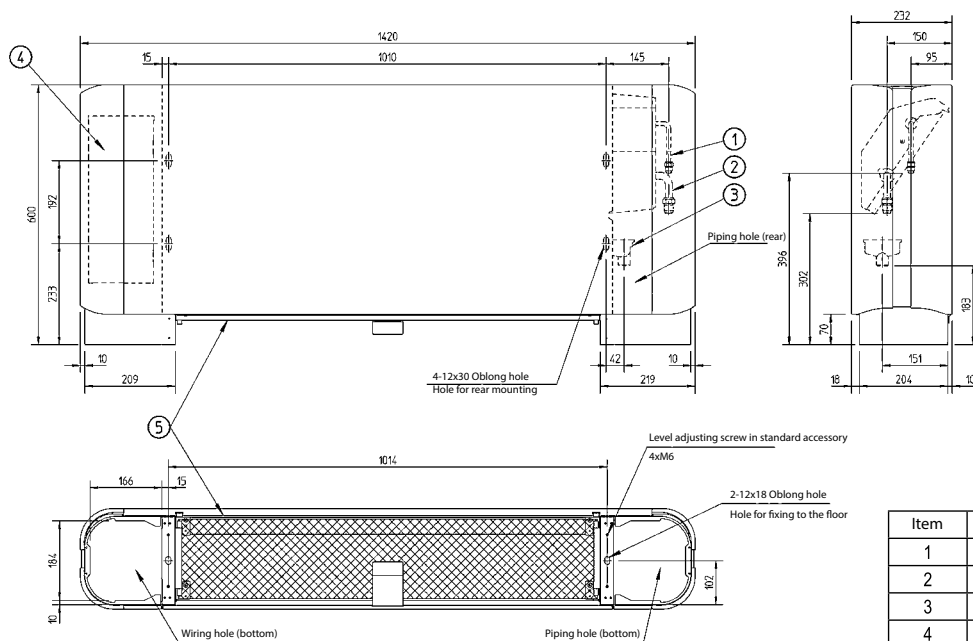
3TW32314-1



FXLQ50-63P



Required installation space



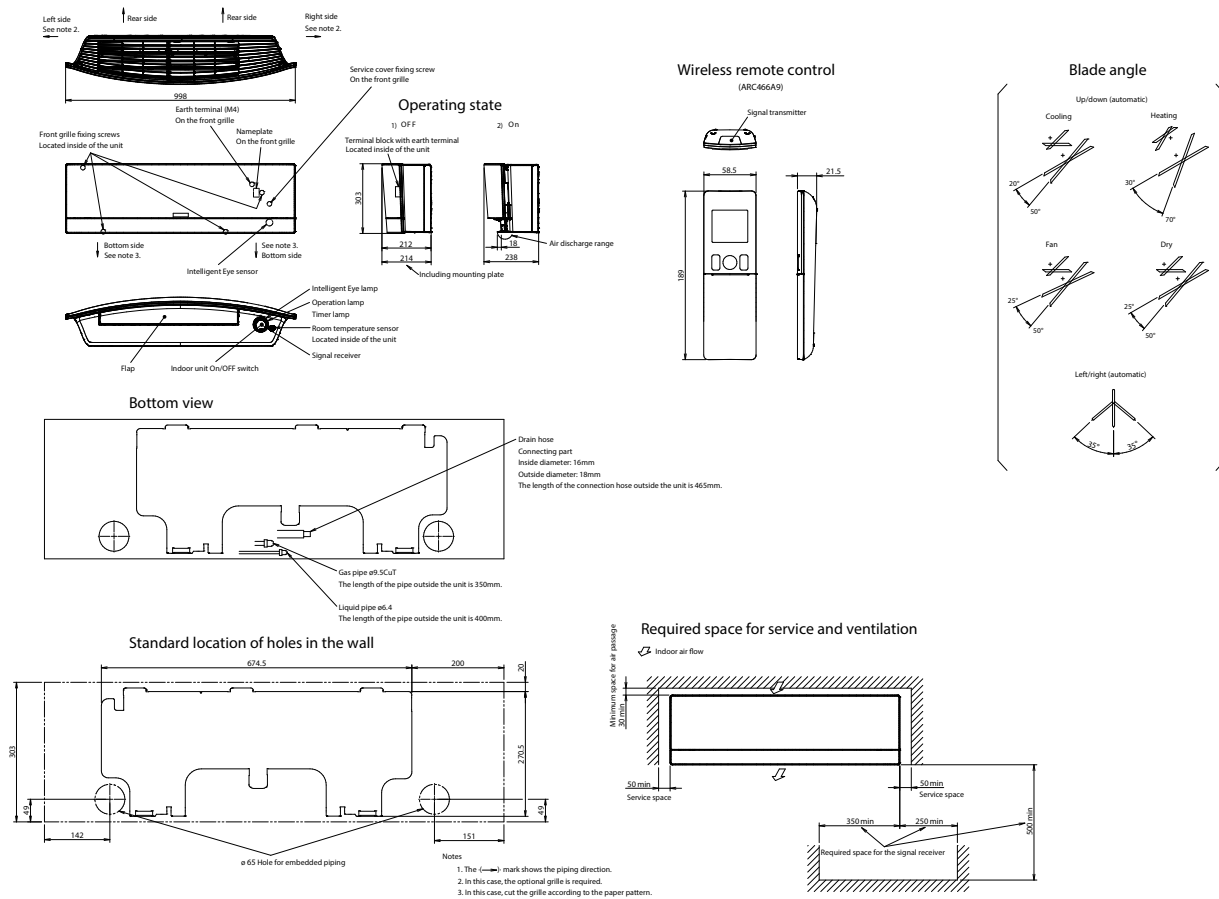
Model	A	B
FXL050	Ø6.4	Ø12.7
FXL063	Ø9.5	Ø15.9

Item	Name	Description
1	Liquid pipe connection	ØA Flare connection
2	Gas pipe connection	ØB Flare connection
3	Drain pipe connection	O.D. Ø21
4	Switch box	
5	Air filter	

3TW32334-1

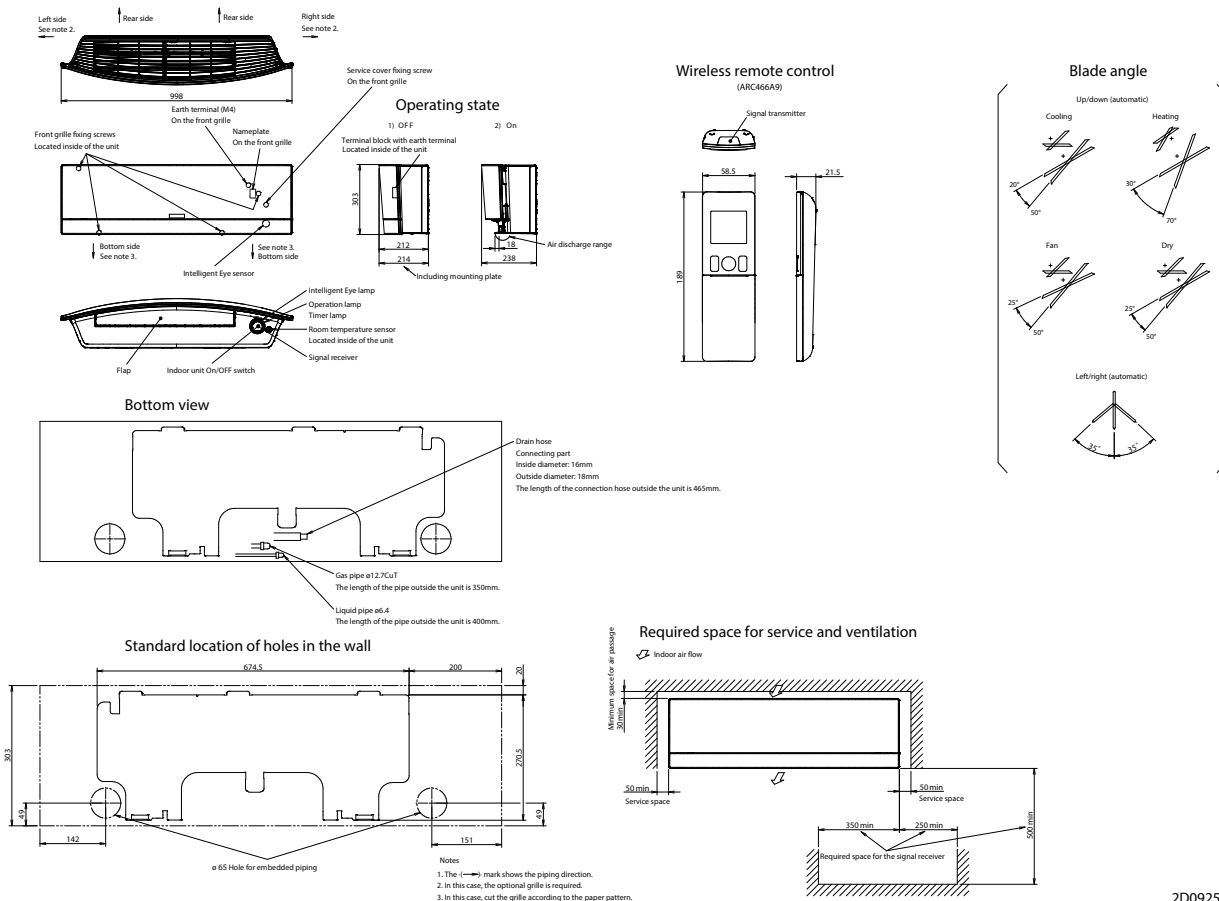


FTXJ20-35MW - FTXJ20-35MS



2D092462A

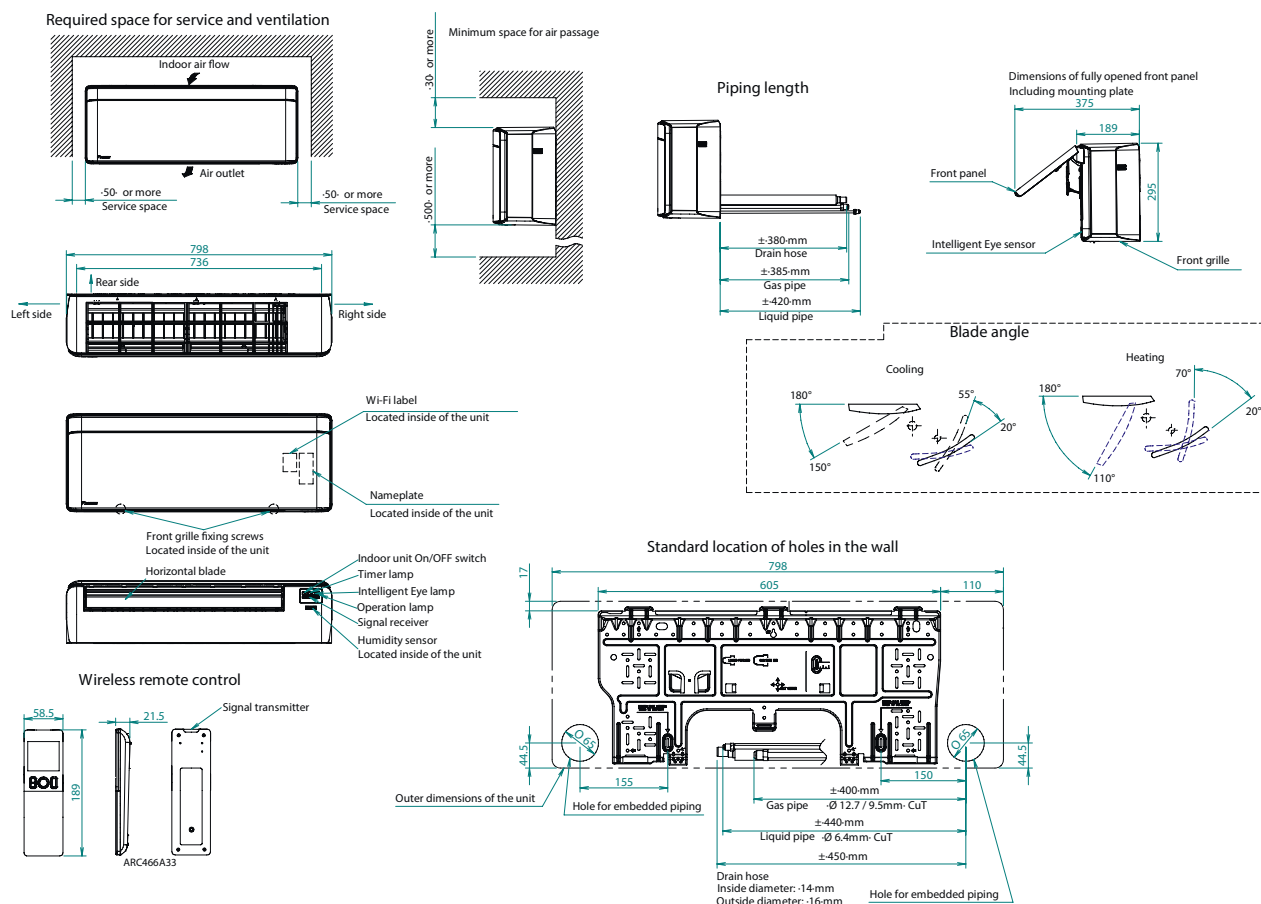
FTXJ50MW - FTXJ50MS



2D092503A



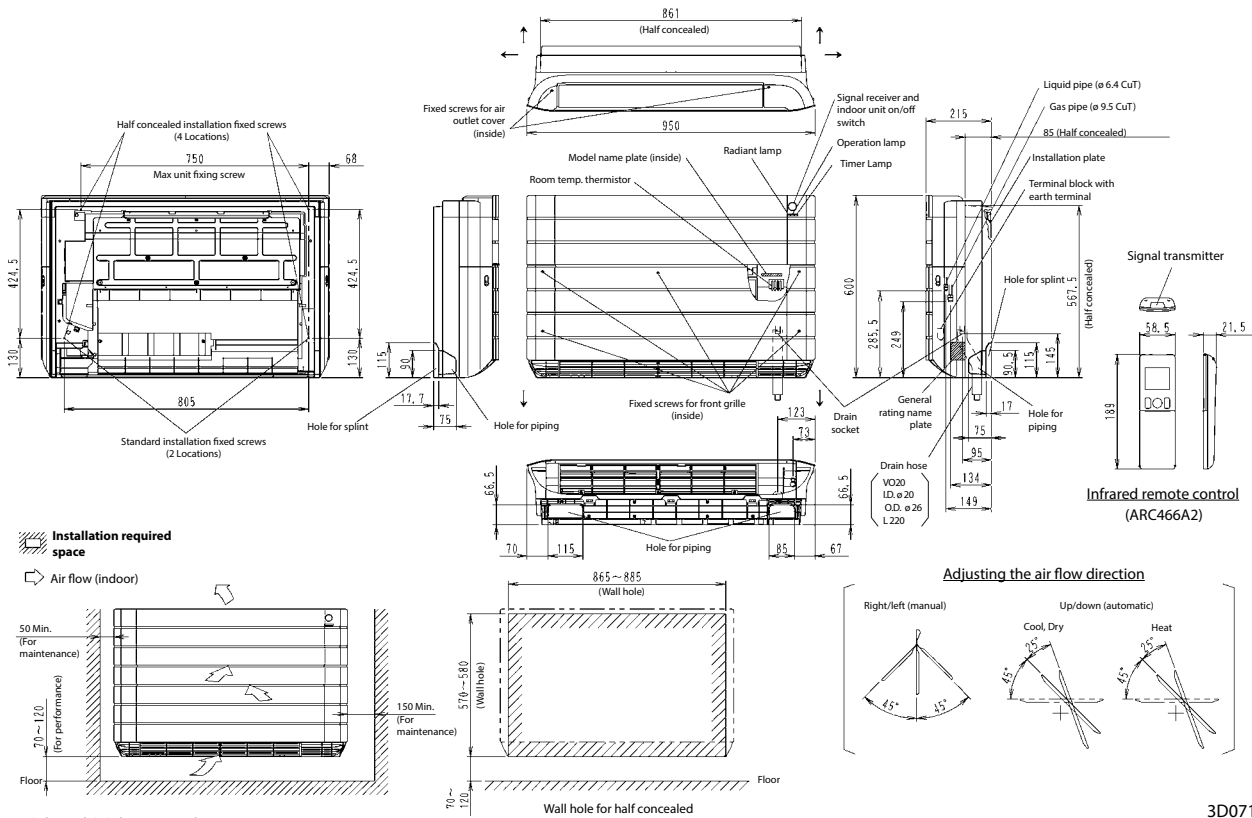
CTXA-AW/AS/AT - FTXA-AW/AS/AT



3D113513B

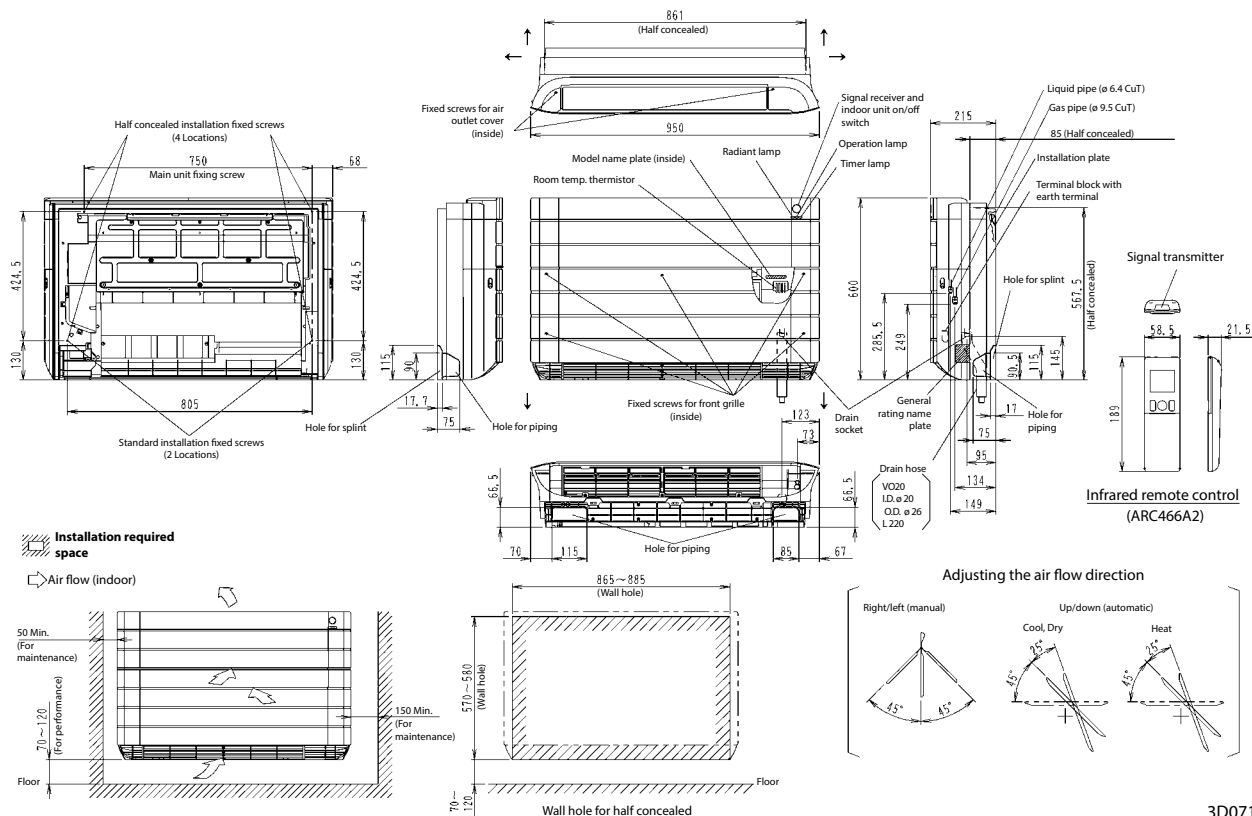


FVXG25-35K



3D071595

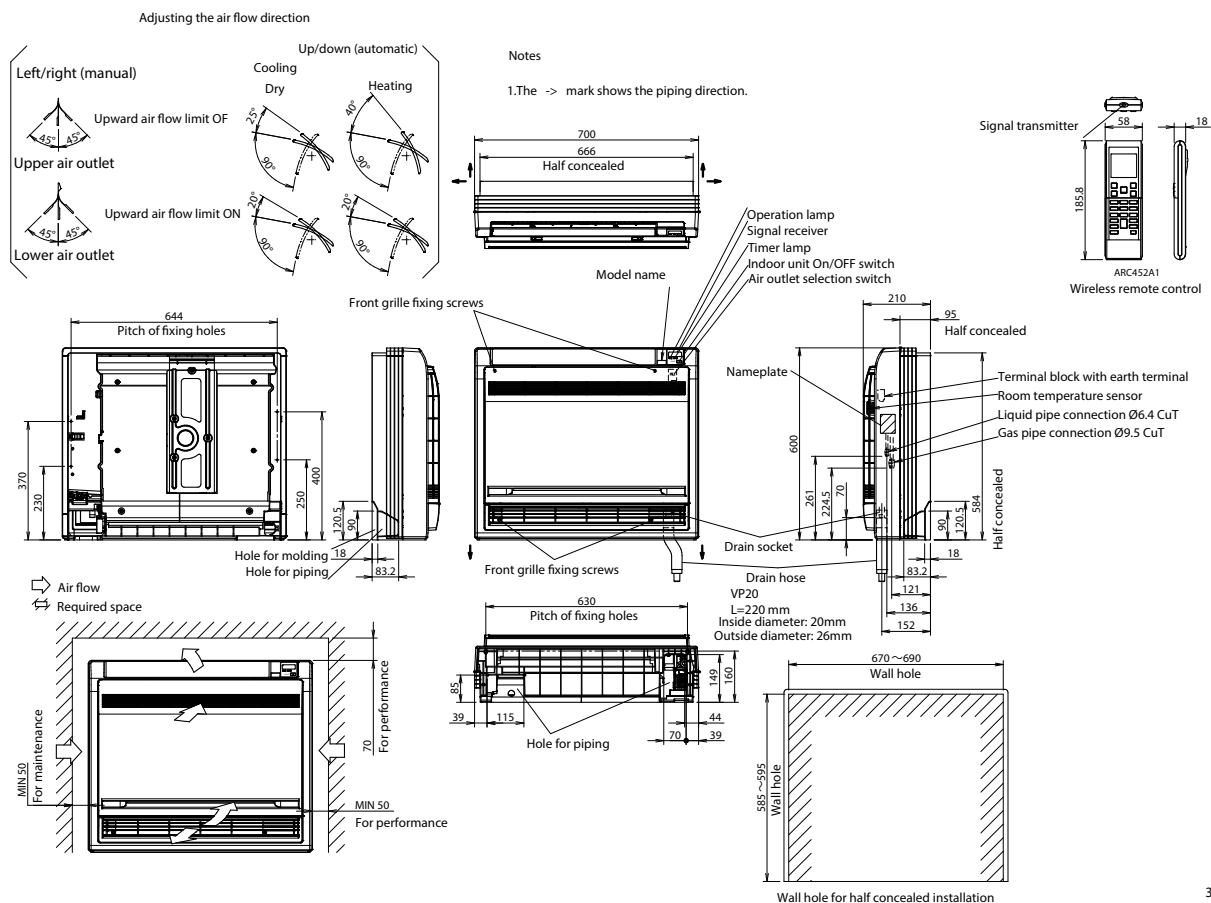
FVXG50K



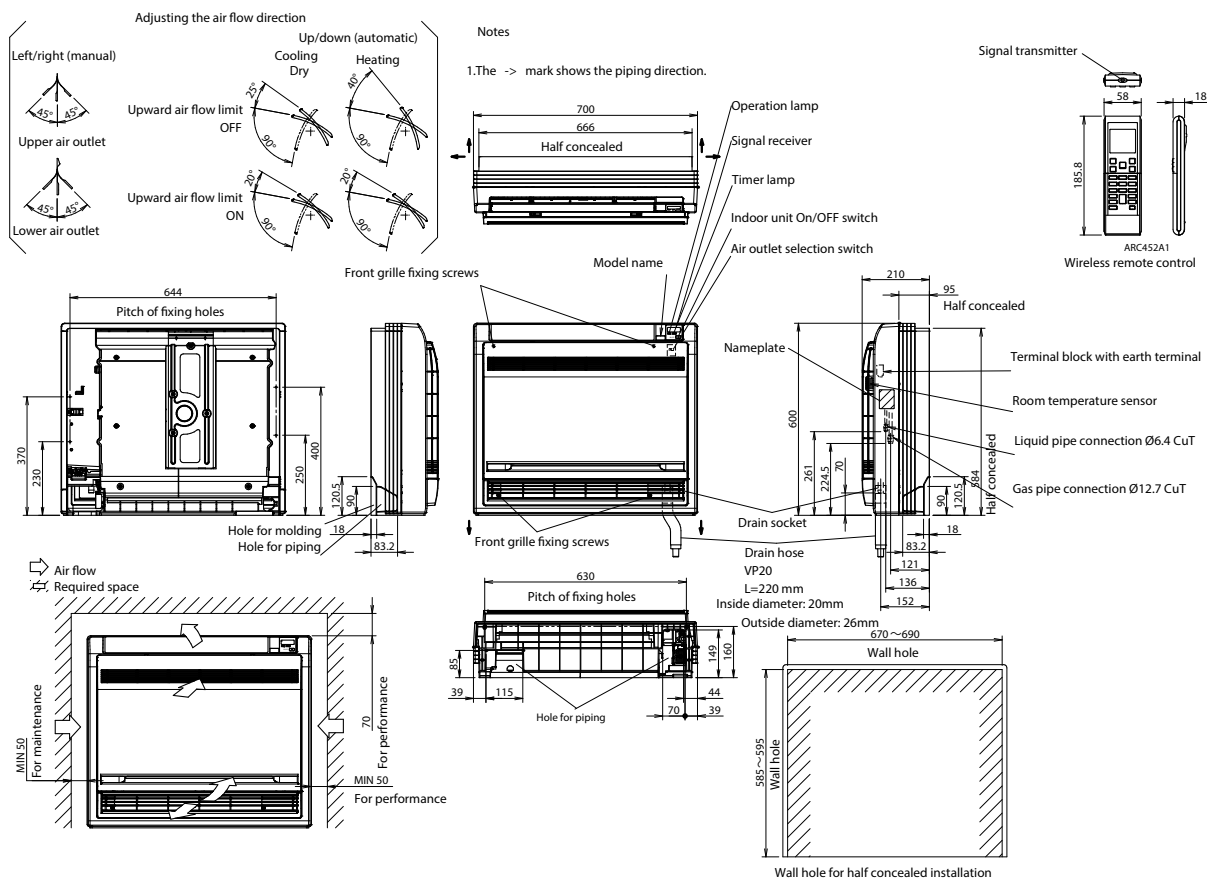
3D071596



FVXM25-35F



FVXM50F





Technical drawings

Hot water

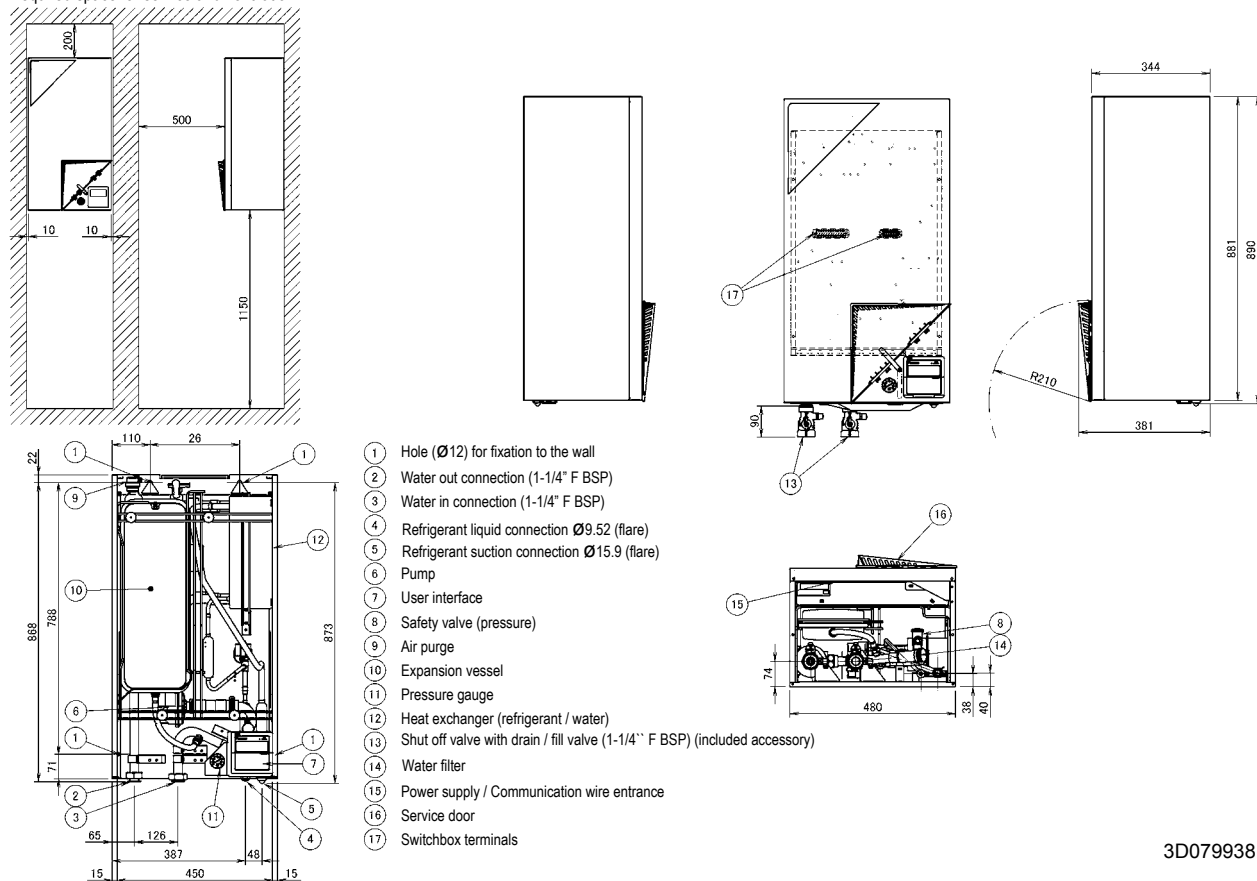
HXY-A8 287

HXHD-A8 288



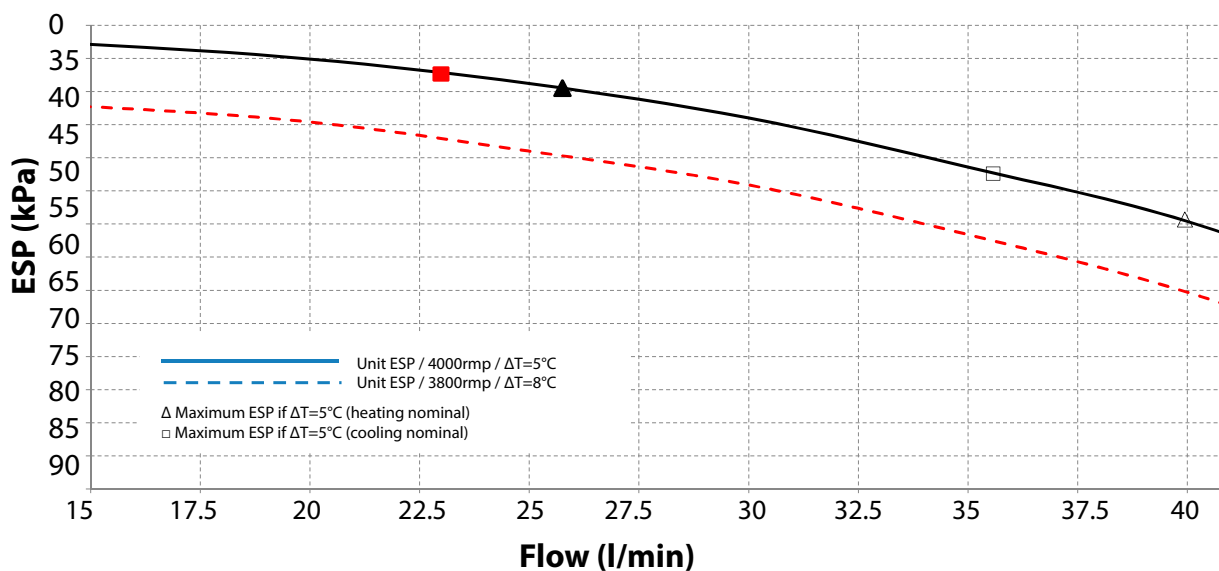
HXY-A8

Required space for service and ventilation



3D079938

HXY-A8



ESP: External Static Pressure
Flow: Water flow through the unit

Notes

- 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 specifications.
- Water quality must be according to EU directive 98/83 EC.

3D097625

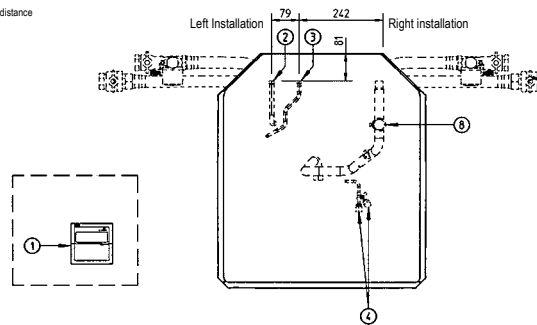
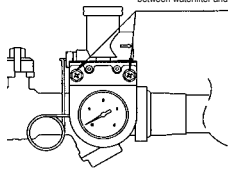


Detailed technical drawings

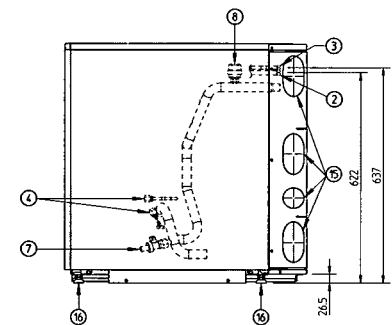
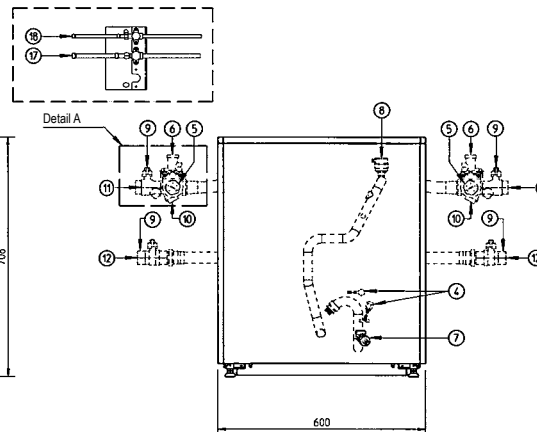
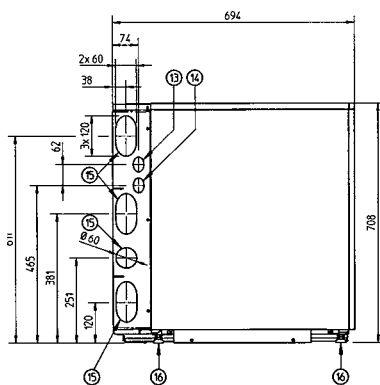
HXHD125A8

Detail A
Scale 1/3

If required (e.g. Wall fixation)
Pressure gauge can be removed from waterfilter, maximum distance
between waterfilter and pressure gauge ± 600 mm

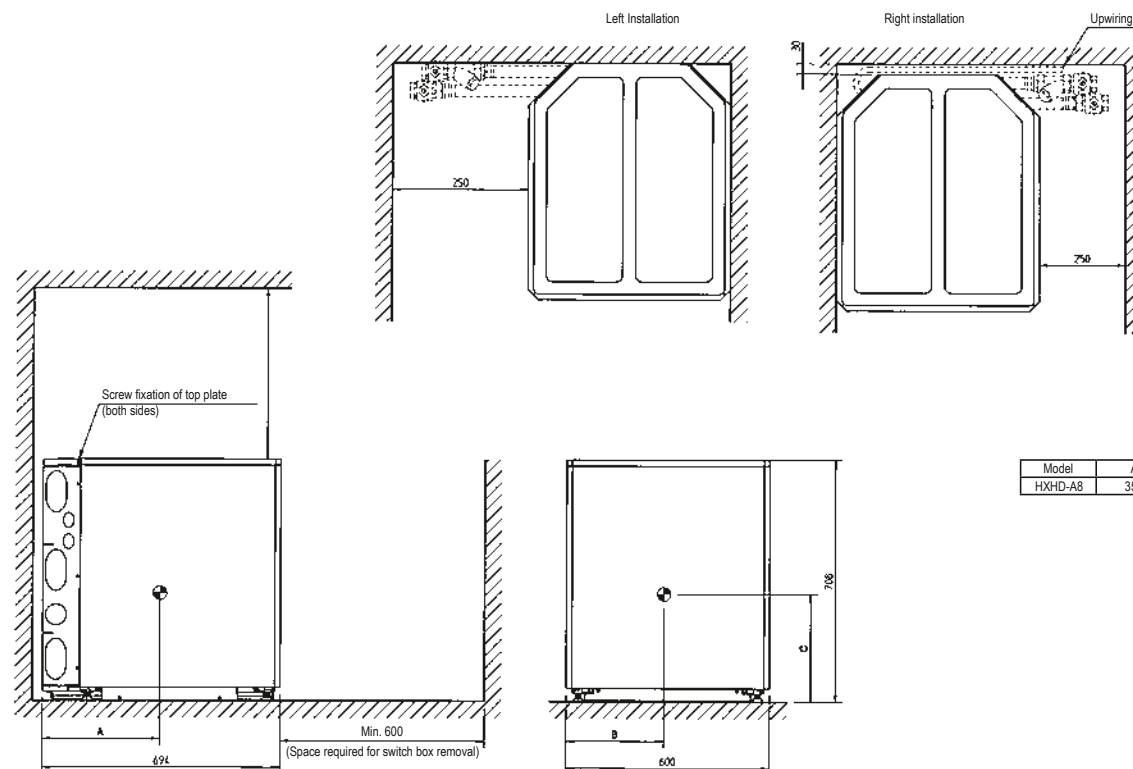


1	Remote control (delivered as accessory) Installation location is outside the unit
2	Discharge pipe connection $\phi 12.7$ solder (R410a)
3	Liquid pipe connection $\phi 9.5$ solder (R410a)
4	R134a Service ports 5/16" are (2x)
5	Pressure gauge
6	Blow off valve
7	Drain valve water circuit
8	Air purge
9	Shut-off valves (2x)
10	Water filter
11	Water in connection G 1" (female)
12	Water out connection G 1" (female)
13	Control wiring intake (knock-out hole $\phi 37$)
14	Power supply wiring intake (knock-out hole $\phi 37$)
15	Knock-out holes for refrigerant piping and water piping
16	Levelling feet
17	Discharge stop valve $\phi 12.7$ solder (R410a)
18	Liquid stop valve $\phi 9.5$ solder (R410a)



3TW59914-1B(1)

HXHD125A8



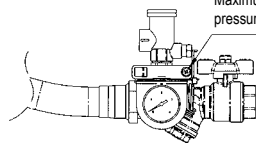
Model	A	B	C
HXHD-A8	355	270	300

3TW59914-1B(2)



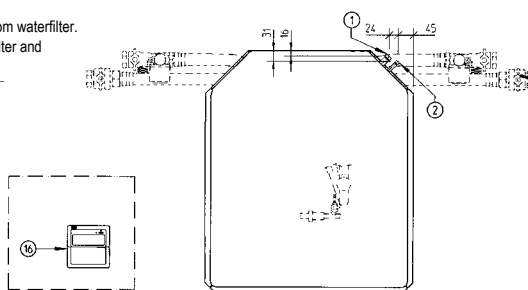
HXHD200A8

Detail A
Scale 1/3



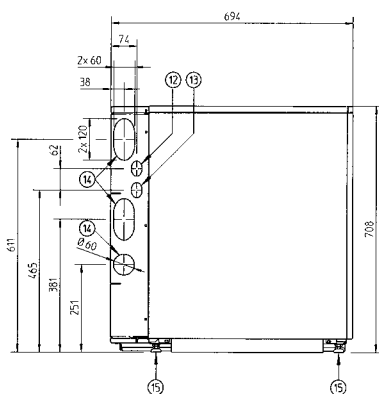
If required (e.g. wall fixation)
Pressure gauge can be removed from waterfilter.
Maximum distance between waterfilter and
pressure gauge: +/- 600mm.

Left installation

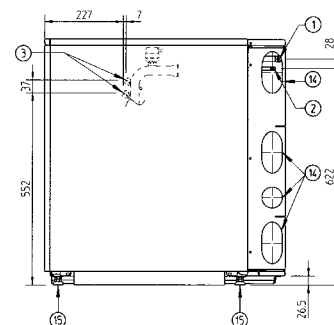
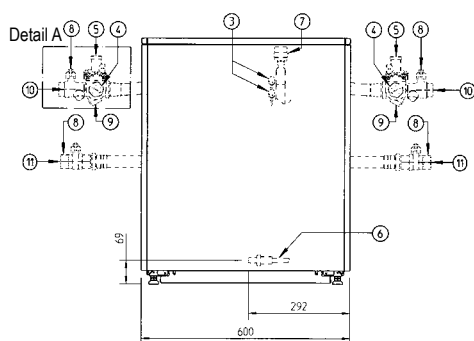


Right installation

1	Gas pipe connection ø15.9 solder (R410A)
2	Liquid pipe connection ø9.5 solder (R410A)
3	R134a service ports ø12.7 flare
4	Pressure gauge
5	Blow off valve
6	Drain valve water circuit
7	Air purge
8	Shut-off valves
9	Water filter
10	Water in connecting G 1" (female)
11	Water out connecting G 1" (female)
12	Control wiring intake (knock-out hole ø37)
13	Power supply wiring intake (knock-out hole ø37)
14	Knock-out holes for refrigerant piping and water piping
15	Levelling feet
16	Remote controller (delivered as accessory) installation location is outside the unit



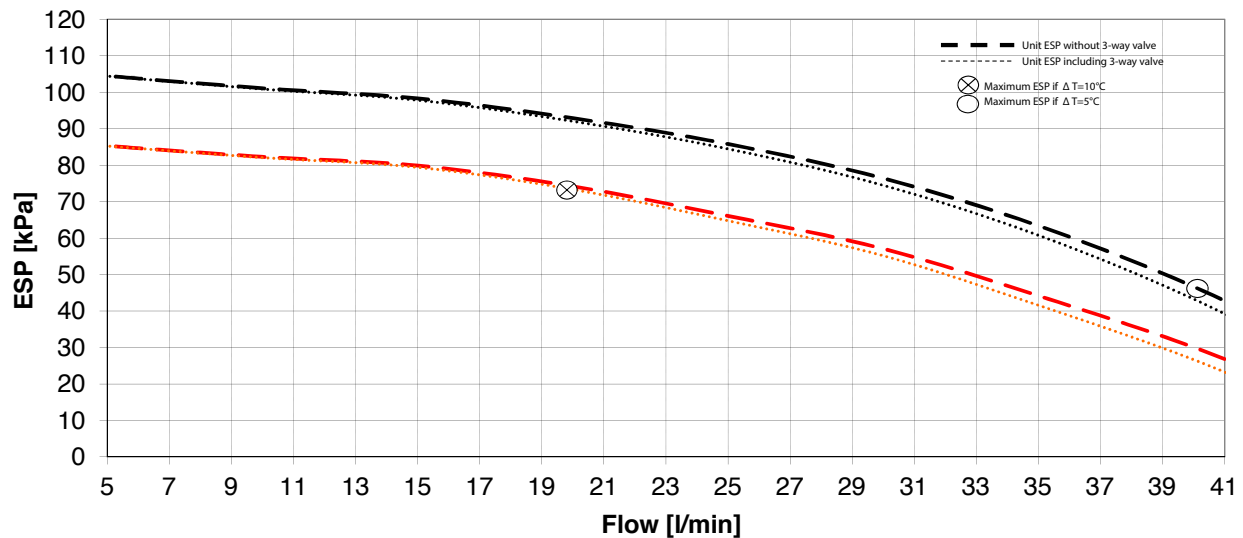
Detail A



3TW59854-1



HXHD125A8



Notes

1. 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).
2. 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

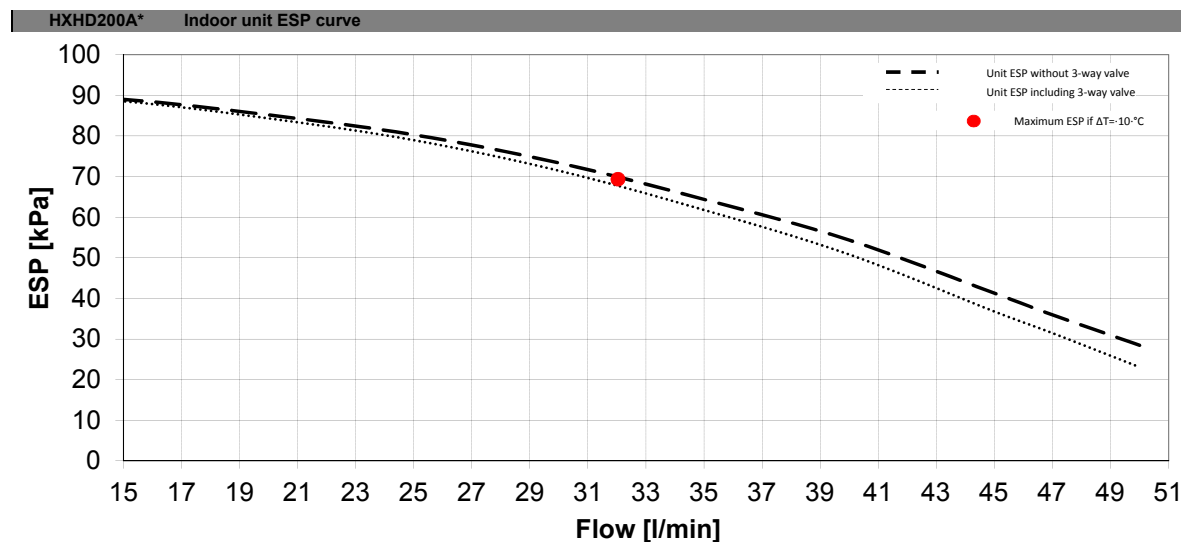
Flow: water flow through the unit

Warning

1. 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 specifications.
2. Water quality must be according to EU directive 98/83 EC.

3D097621

HXHD200A8



Notes

1. 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 temperature.
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

1. 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 specifications.
2. Water quality must be according to EU directive 98/83 EC.

3D113718



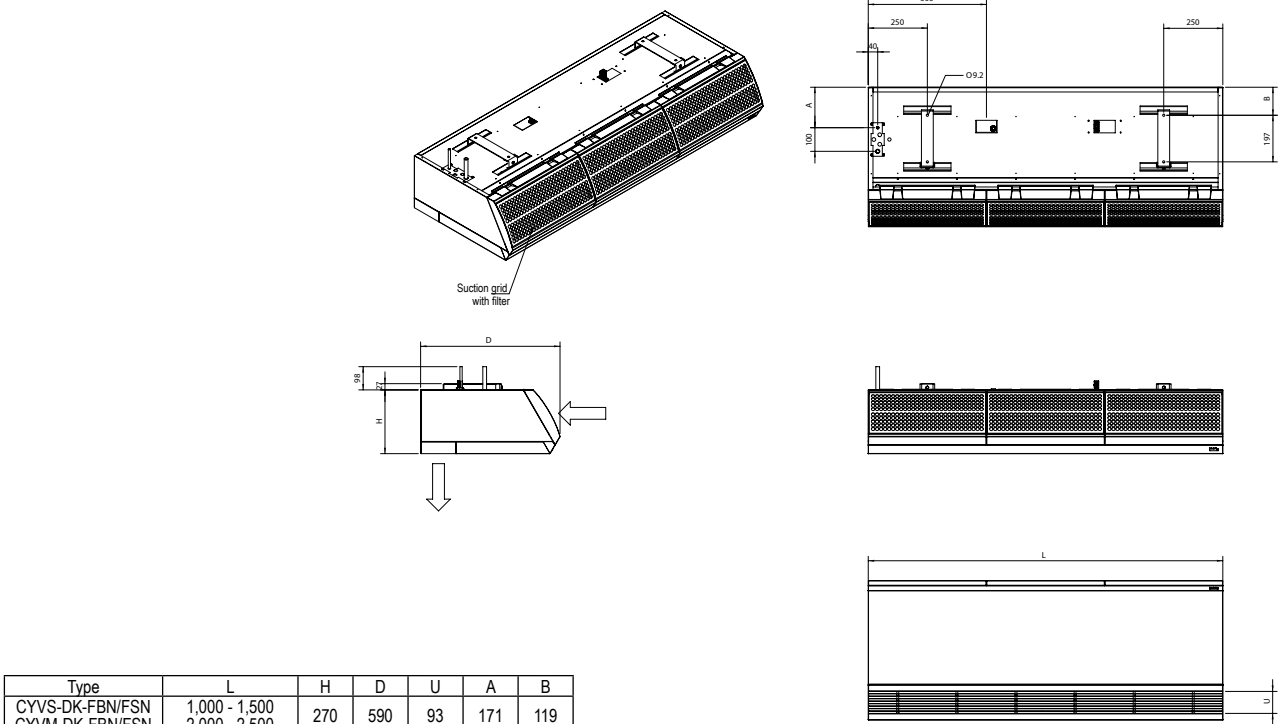
Technical drawings

Biddle air curtains

CYVS_DK / CYVM_DK / CYVL_DK

292

CYVS_DK_FBN/FSN / CYVM_DK_FBN/FSN / CYVL_DK_FBN/FSN



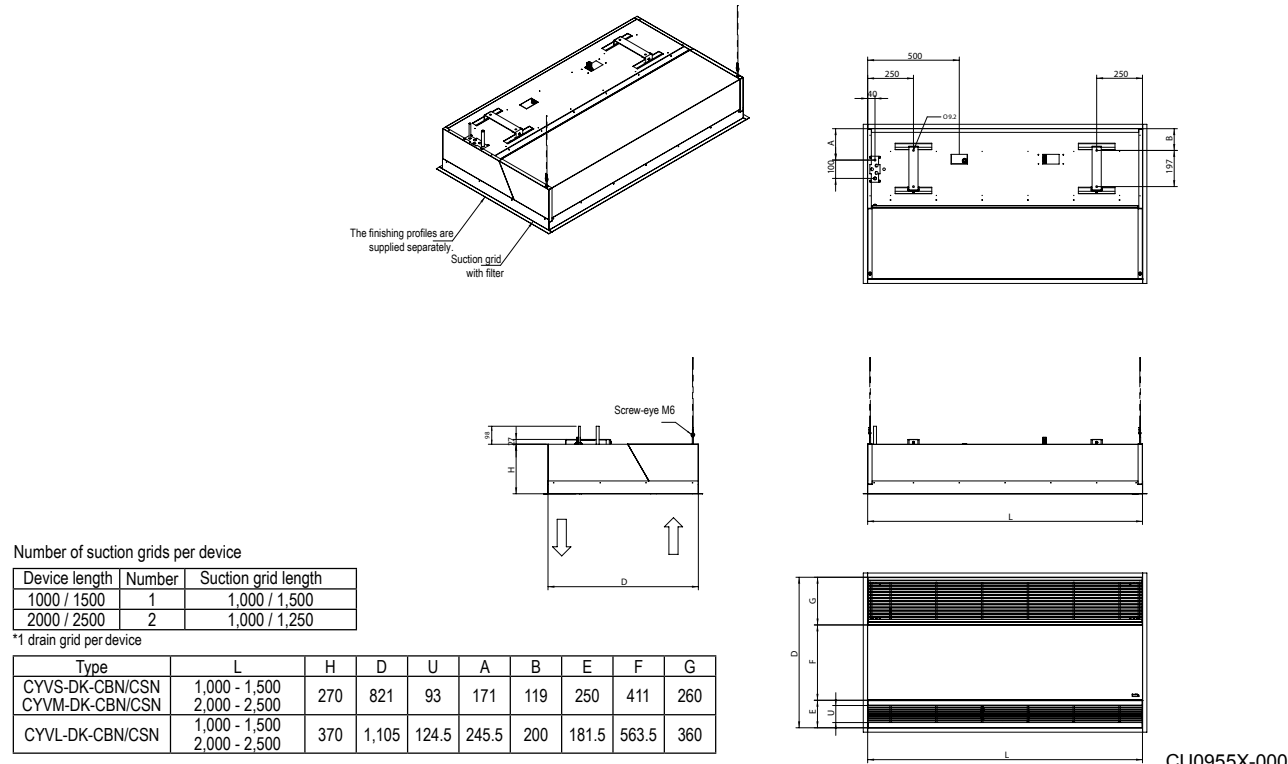
Type	L	H	D	U	A	B
CYVS-DK-FBN/FSN	1,000 - 1,500	270	590	93	171	119
CYVM-DK-FBN/FSN	2,000 - 2,500					
CYVL-DK-FBN/FSN	1,000 - 1,500	370	774	124.5	245.5	200
	2,000 - 2,500					

CU0954X-000

REMARKS

- 1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

CYVS_DK_CBN/CSN / CYVM_DK_CBN/CSN / CYVL_DK_CBN/CSN



Number of suction grids per device

Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

*1 drain grid per device

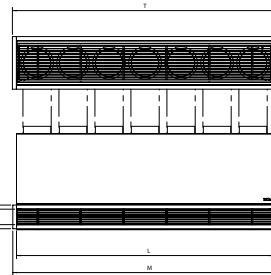
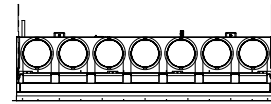
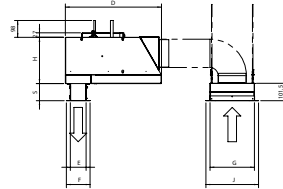
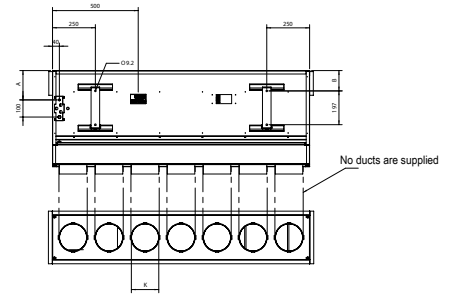
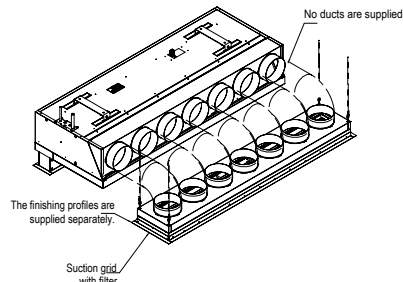
Type	L	H	D	U	A	B	E	F	G
CYVS-DK-CBN/CSN	1,000 - 1,500	270	821	93	171	119	250	411	260
CYVM-DK-CBN/CSN	2,000 - 2,500								
CYVL-DK-CBN/CSN	1,000 - 1,500	370	1,105	124.5	245.5	200	181.5	563.5	360
	2,000 - 2,500								

CU0955X-000

REMARKS

- 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



CU0956X-000

Number of ducts per device

Type	1000	1500	2000	2500
CYVS-DK-RBN/RSN	5	7	10	12
CYVM-DK-RBN/RSN				
CYVL-DK-RBN/RSN	3	5	6	8

Number of suction grids per device

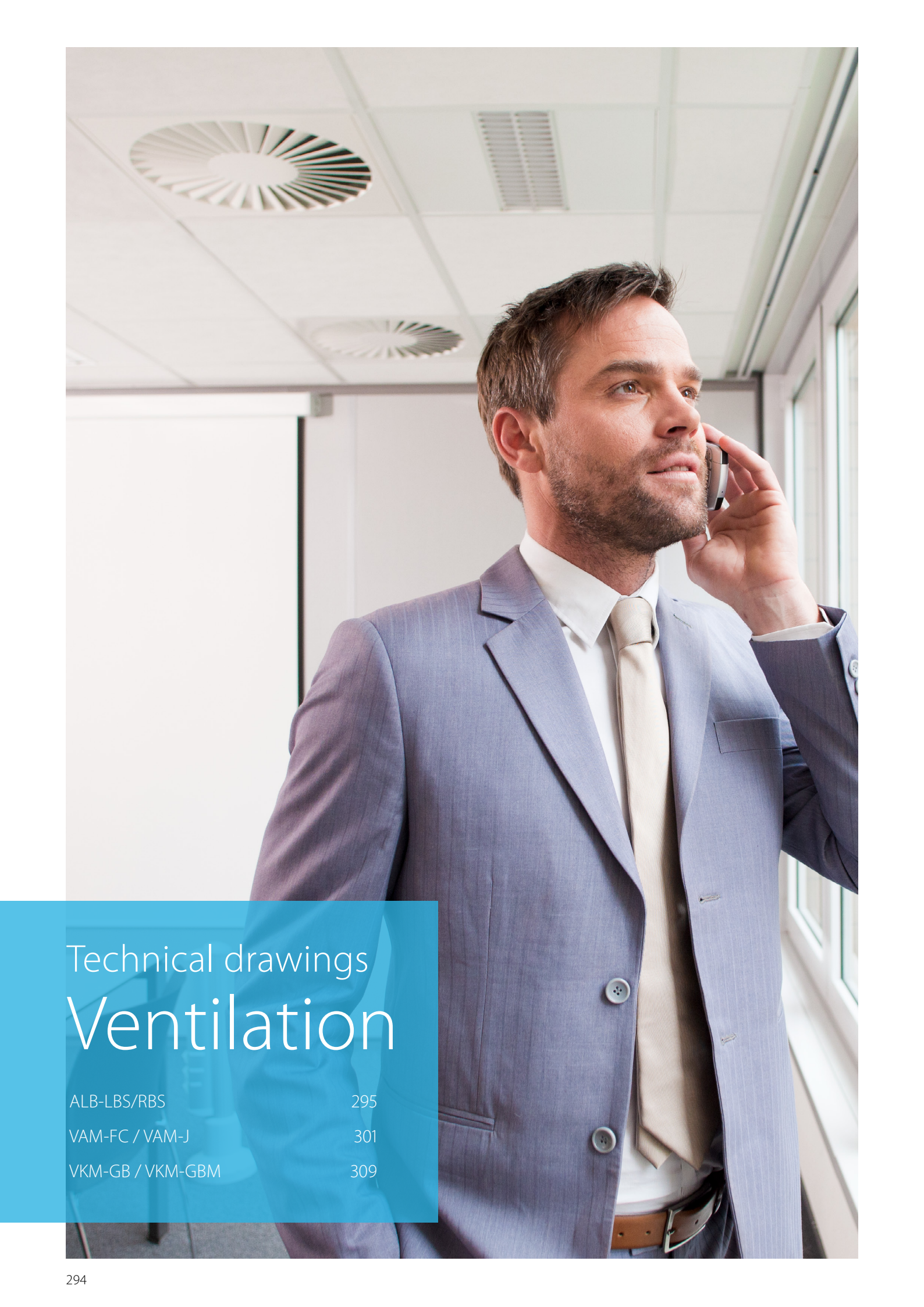
Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

*1 drain grid per device

Type	L	H	D	S	U	A	B	E	F	G	J	K	M	T
CYVS-DK-RBN/RSN CYVM-DK-RBN/RSN	1,000 - 1,500 2,000 - 2,500	270	561	80-125	90	171	119	92	139	260	308	Ø160	1044-1544 2044-2544	1048-1548 2048-2548
CYVL-DK-RBN/RSN	1,000 - 1,500 2,000 - 2,500	370	745	80-125	121.5	245.5	200	123.5	170	360	408	Ø250	1044-1544 2044-2544	1048-1548 2048-2548

REMARKS

- 2 Holes (for finishing profiles) - drain (L+8) x (E+8) mm - suction (L+8) x (G+8) mm.

A man with a beard, wearing a blue suit, white shirt, and light-colored tie, is talking on a mobile phone. He is standing in an office environment, looking out a window. The ceiling features circular ventilation grilles. A blue semi-transparent box is overlaid on the bottom left of the image, containing text.

Technical drawings Ventilation

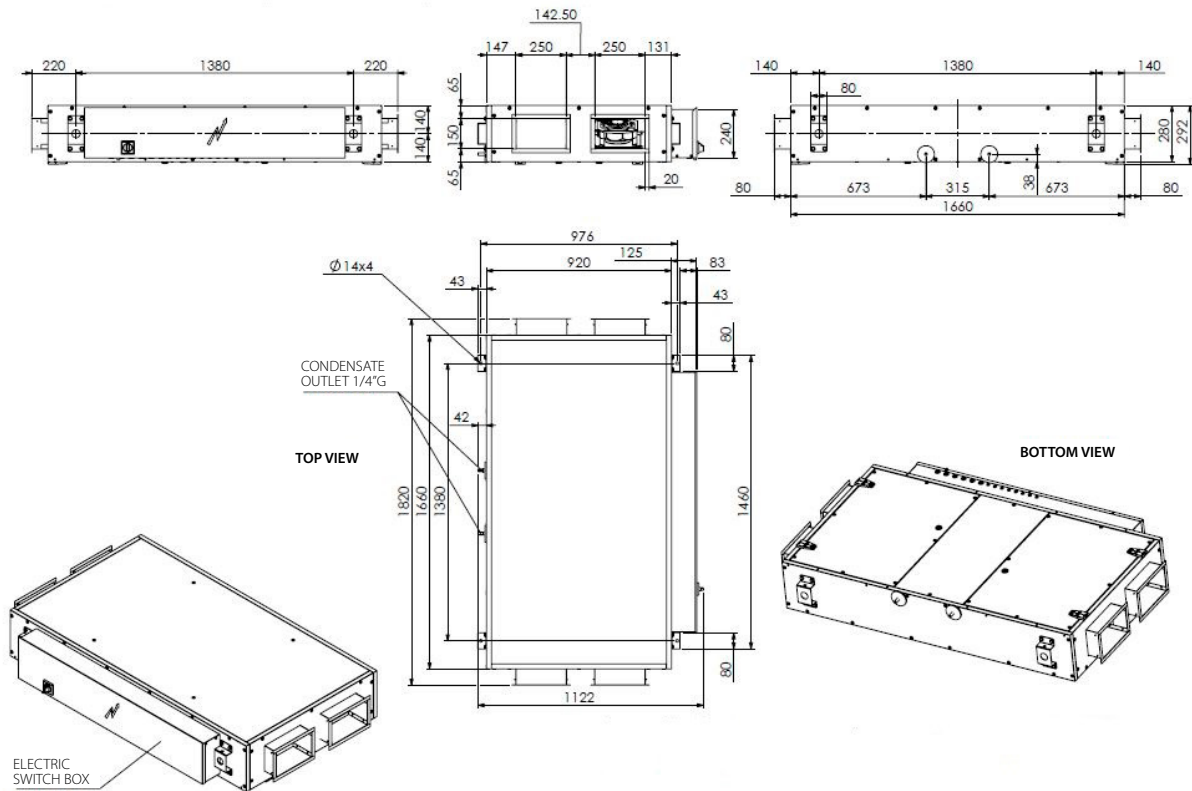
ALB-LBS/RBS 295

VAM-FC / VAM-J 301

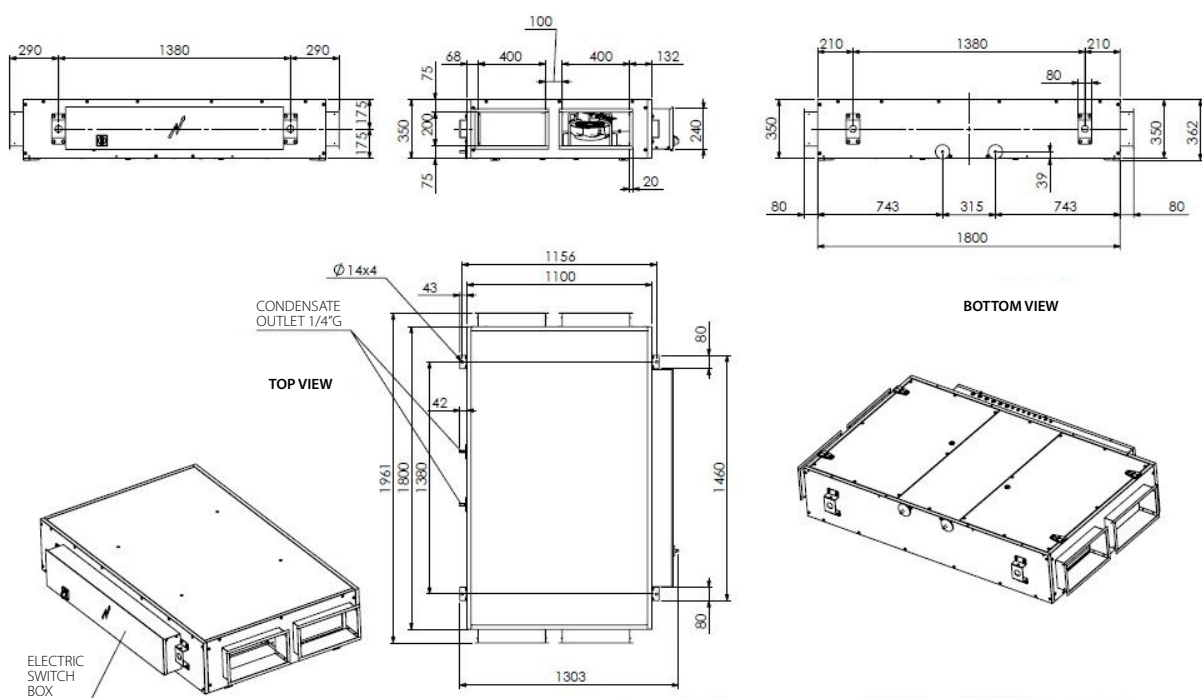
VKM-GB / VKM-GBM 309



ALB02RBS/LBS

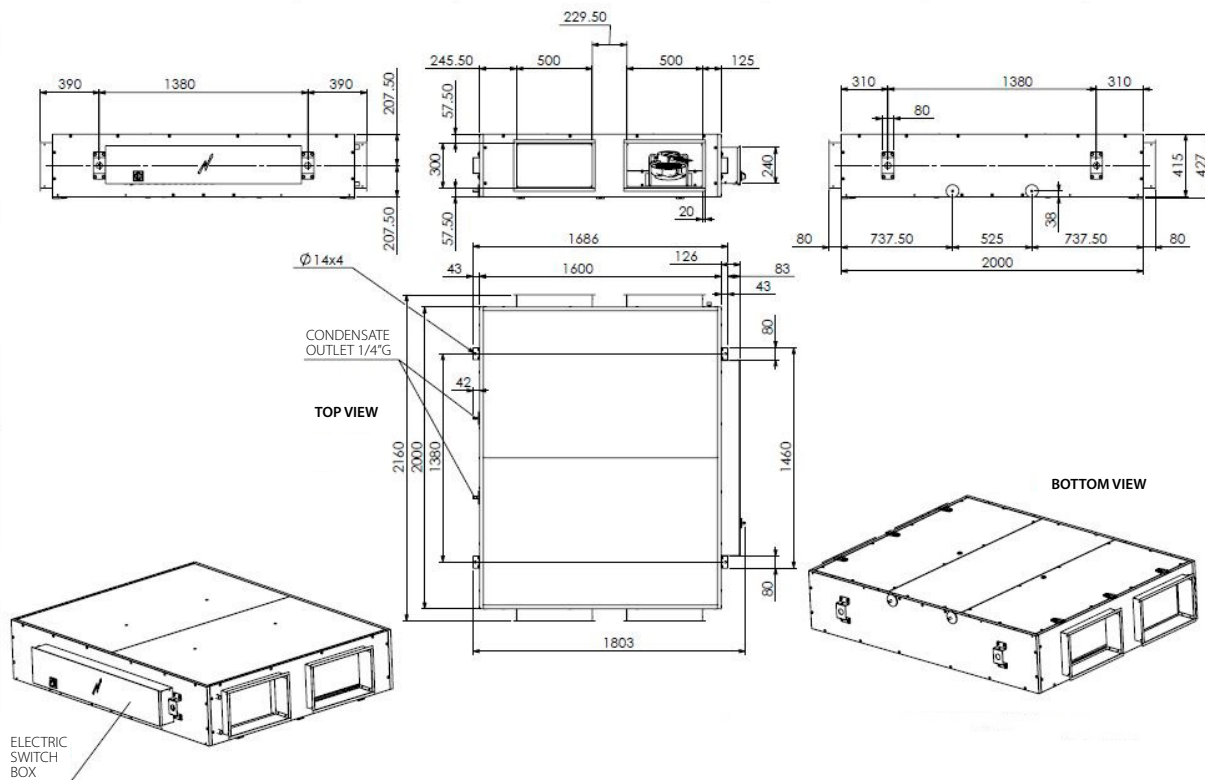


ALB03RBS/LBS

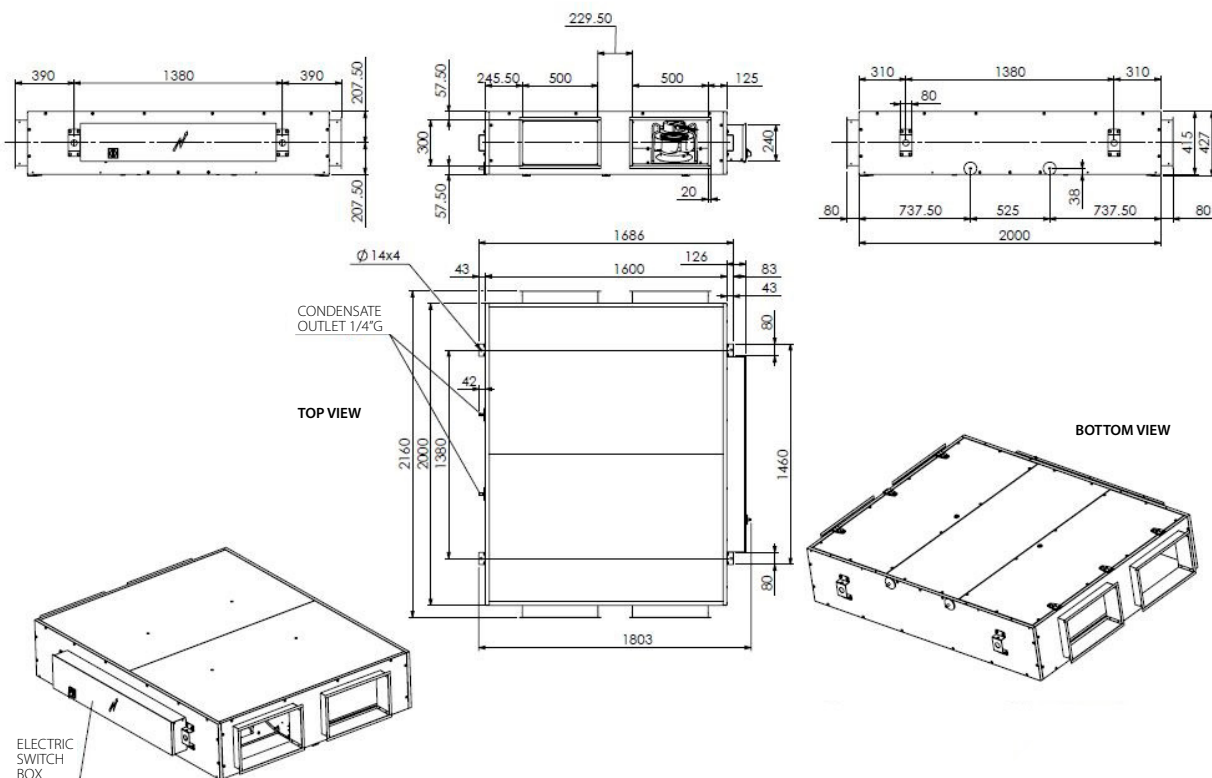




ALB04RBS/LBS

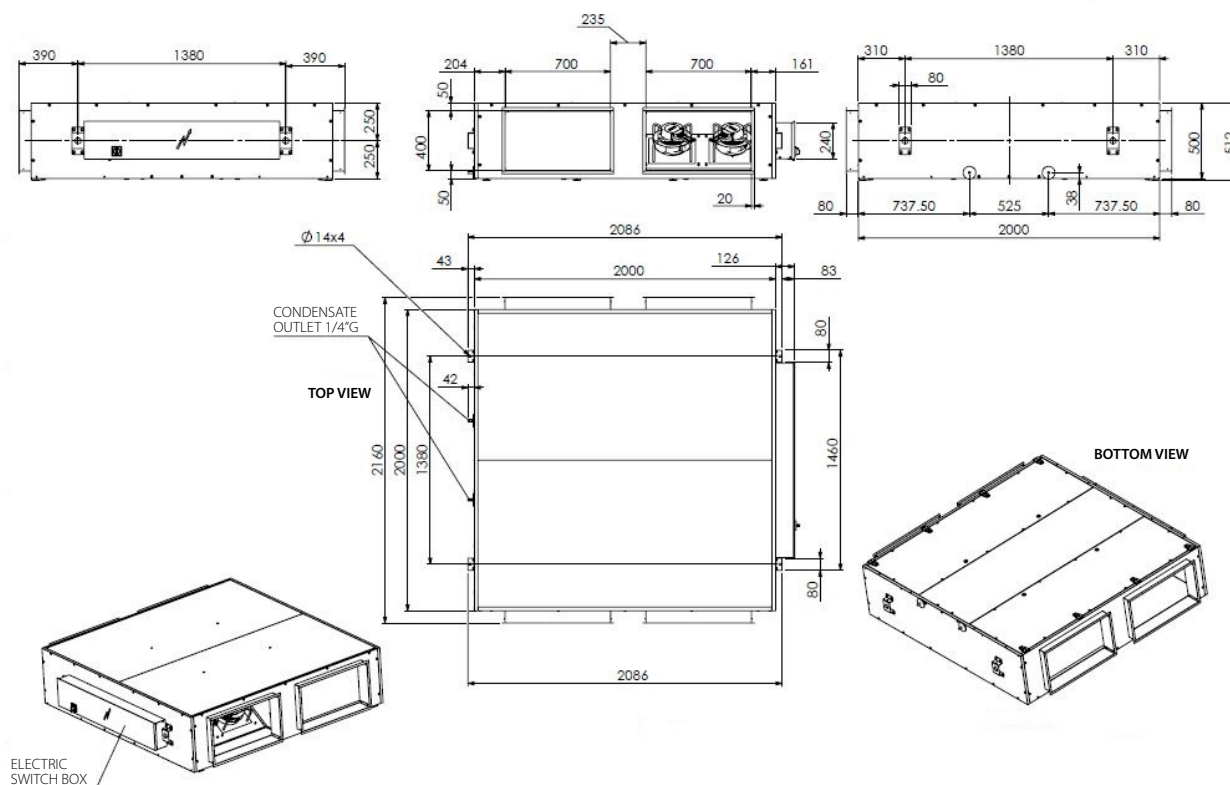


ALB05RBS/LBS

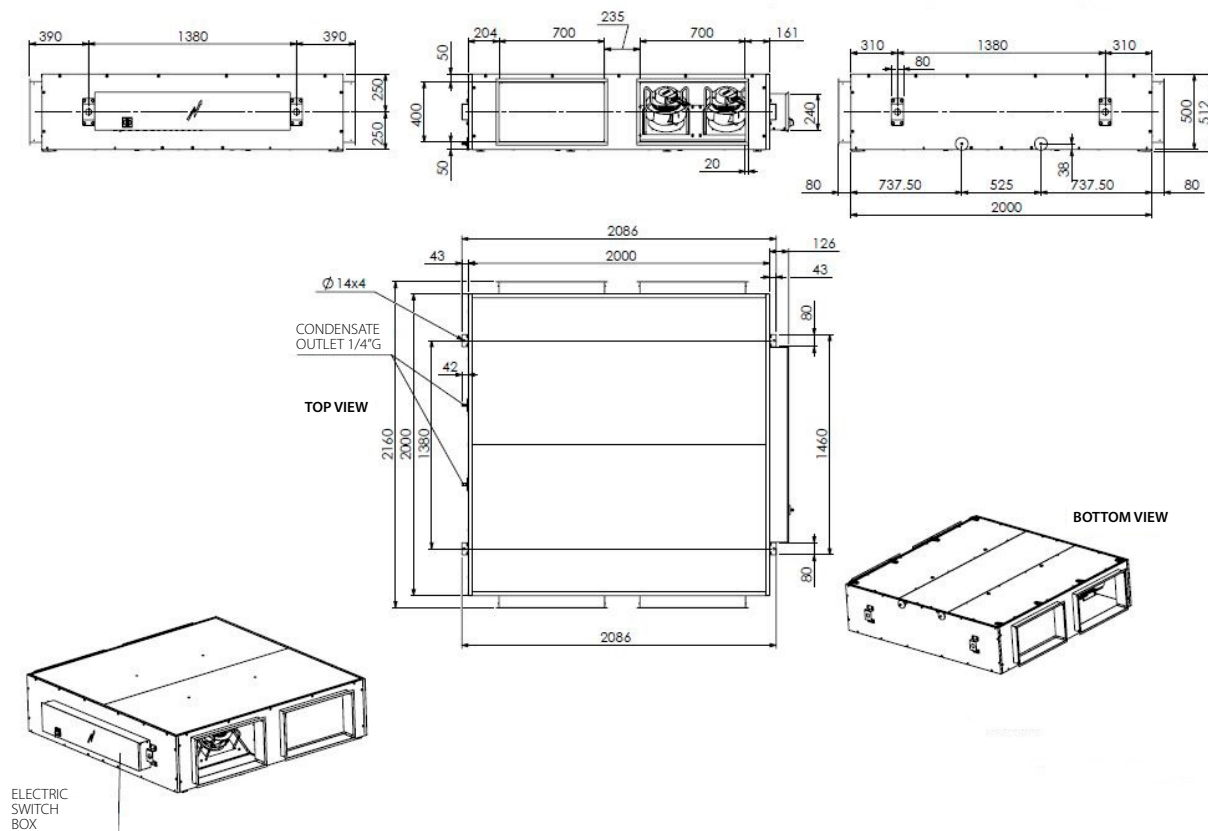




ALB06RBS/LBS

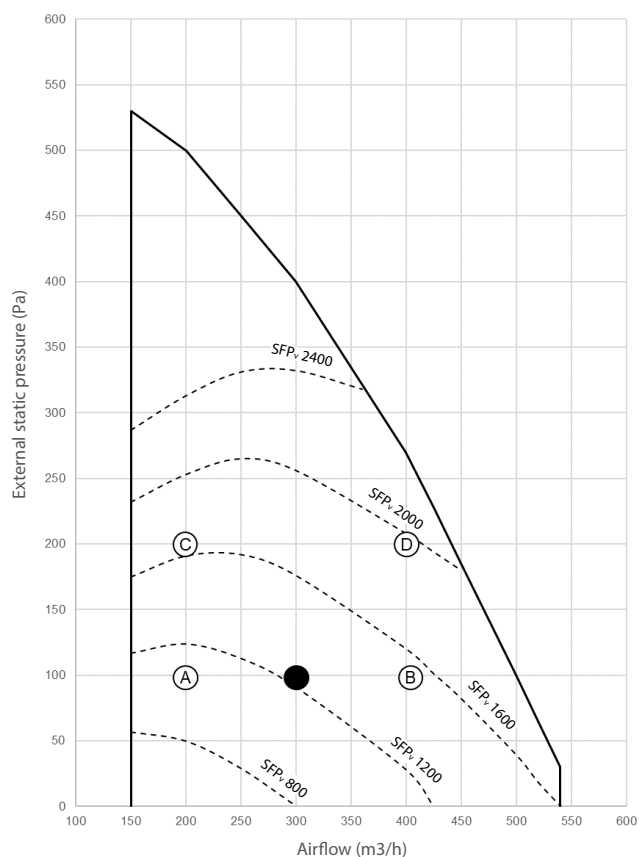


ALB07RBS/LBS





ALB02RBS/LBS



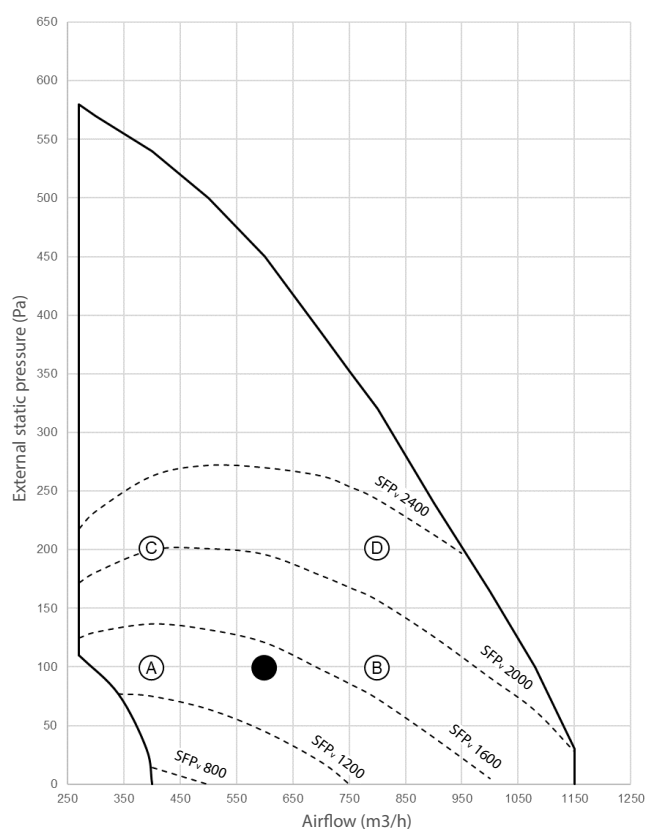
The diagram shows the available external pressure for the duct system given an airflow.

SFP_v = Specific Fan Power (W/m³/s)

The SFP_v 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.

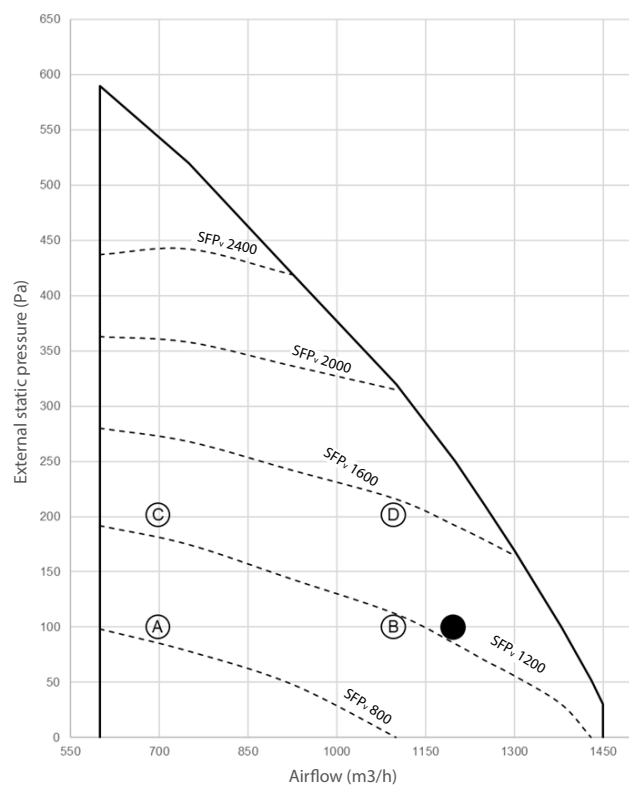
SFP_v = Specific Fan Power (W/m³/s)

The SFP_v 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



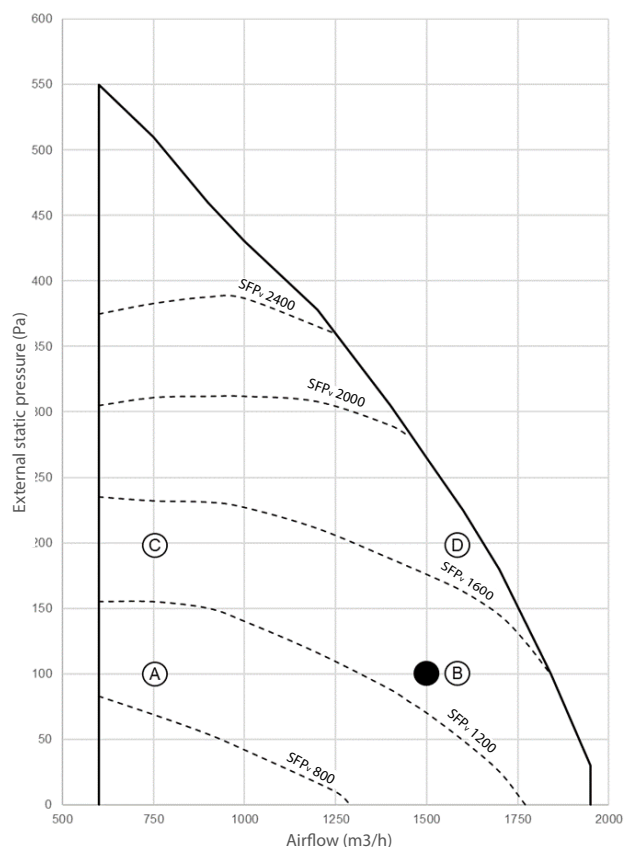
The diagram shows the available external pressure for the duct system given an airflow.

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.

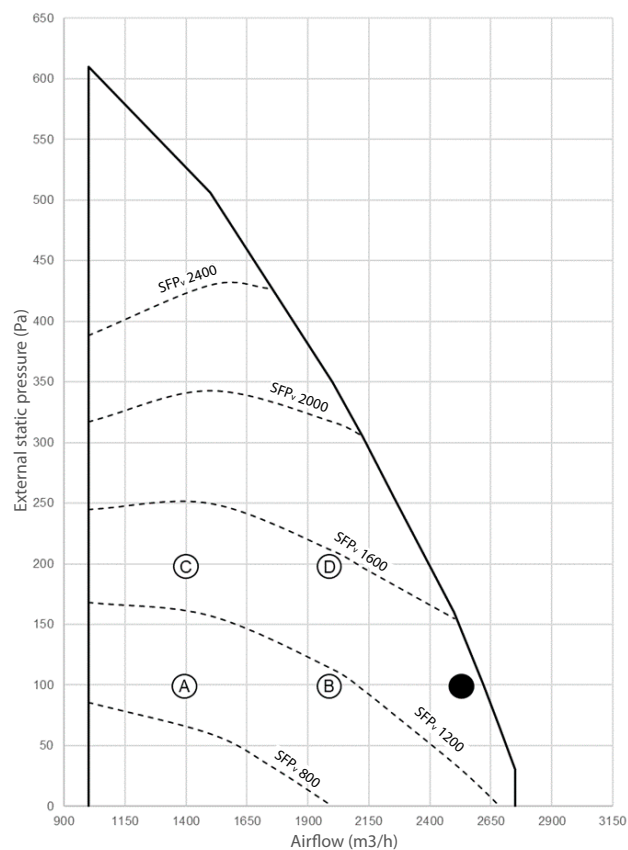
SFPv = Specific Fan Power (W/m3/s)

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



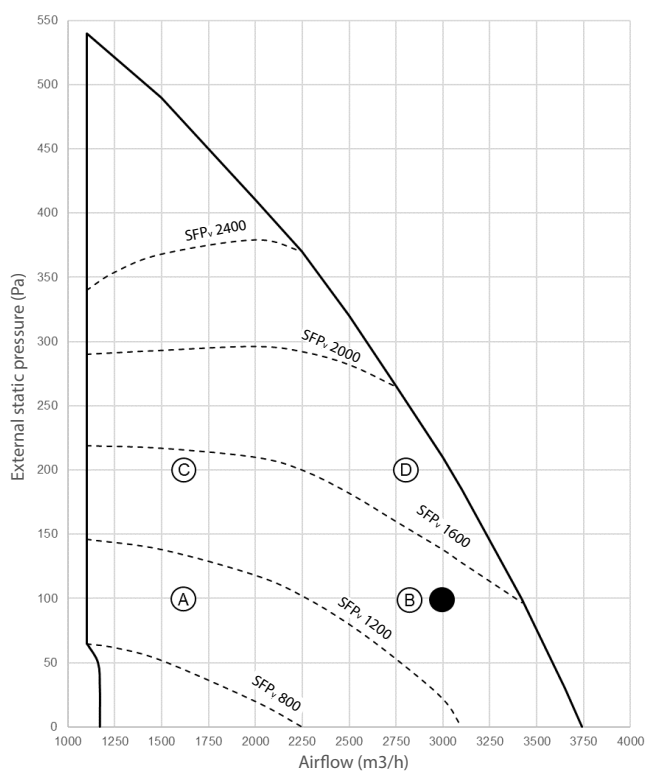
The diagram shows the available external pressure for the duct system given an airflow.

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.

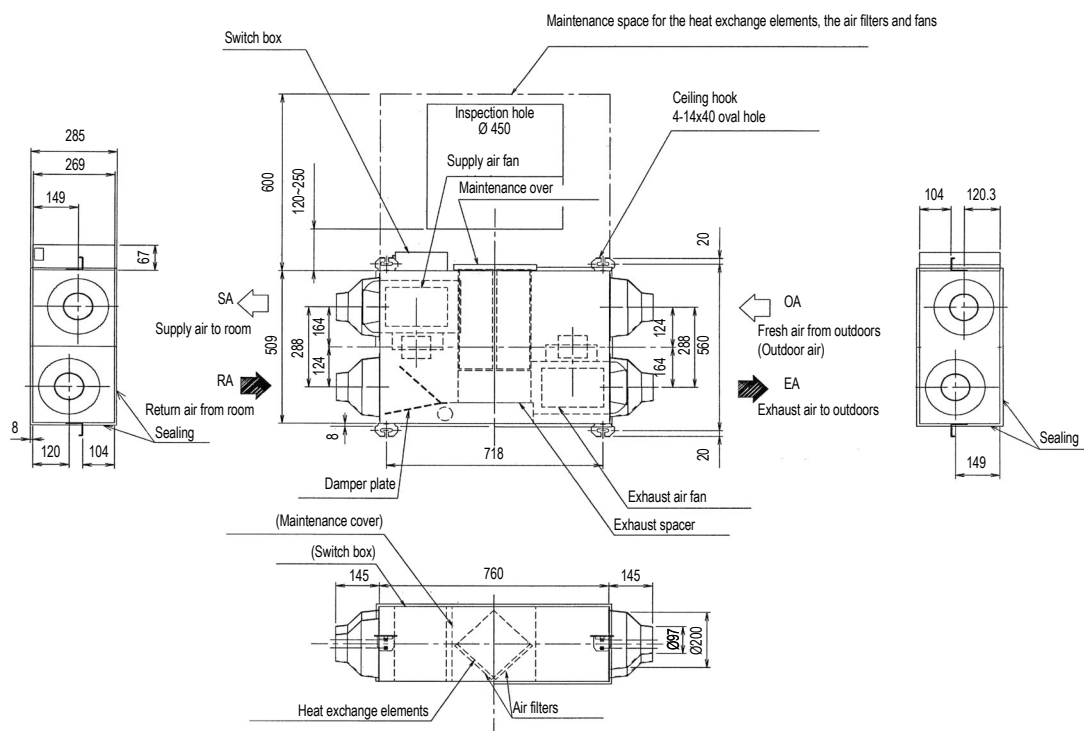
SFPv = Specific Fan Power (W/m³/s)

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

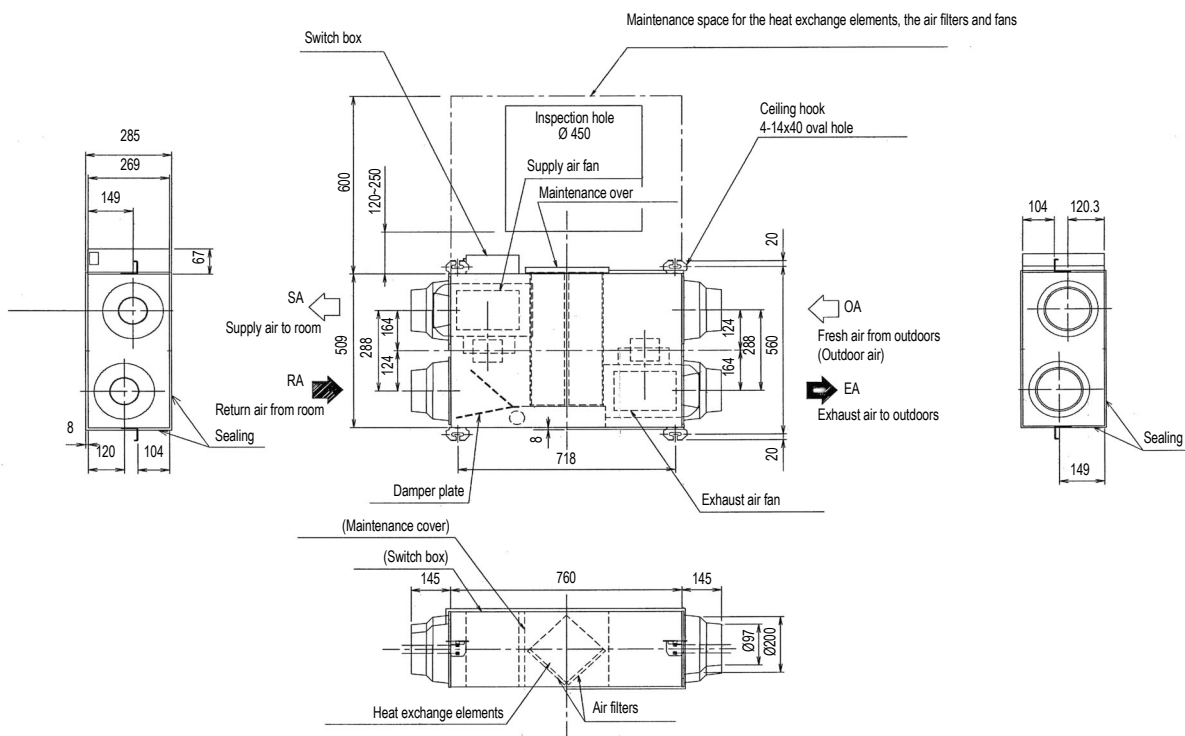


NOTE

- 1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27874-1

VAM250FC9



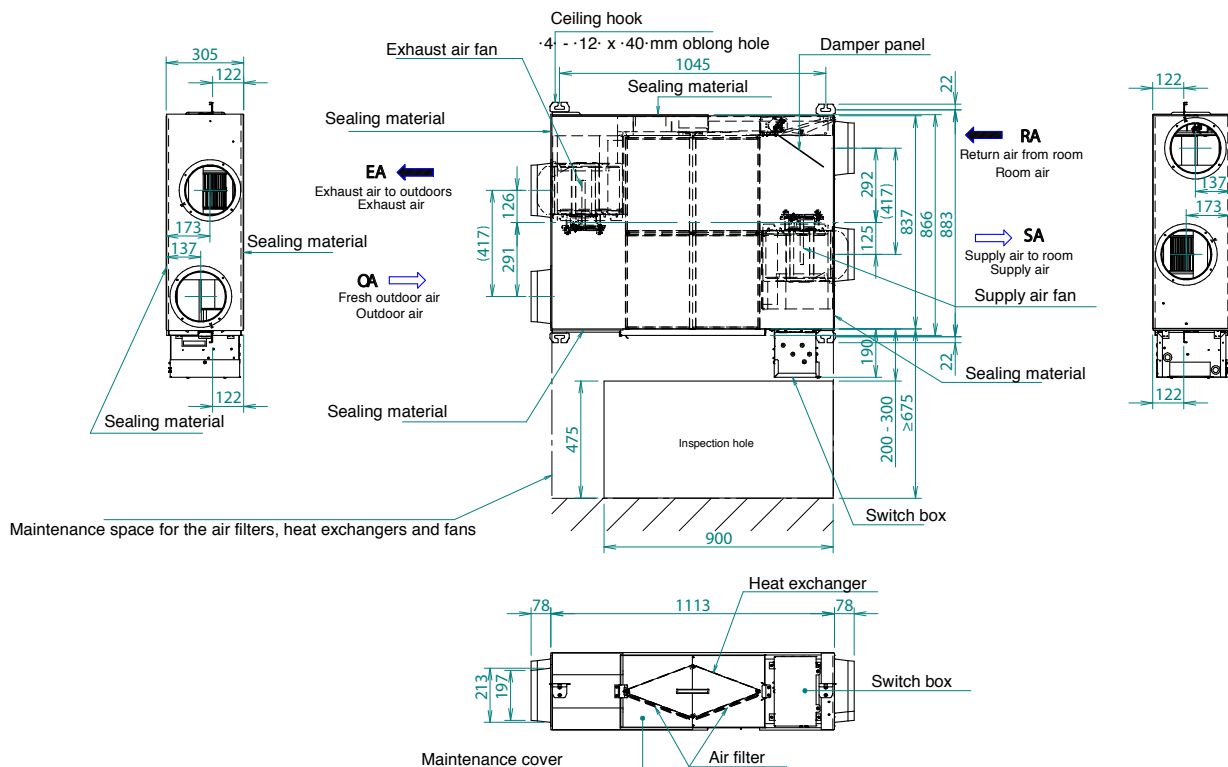
NOTE

- 1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27884-1

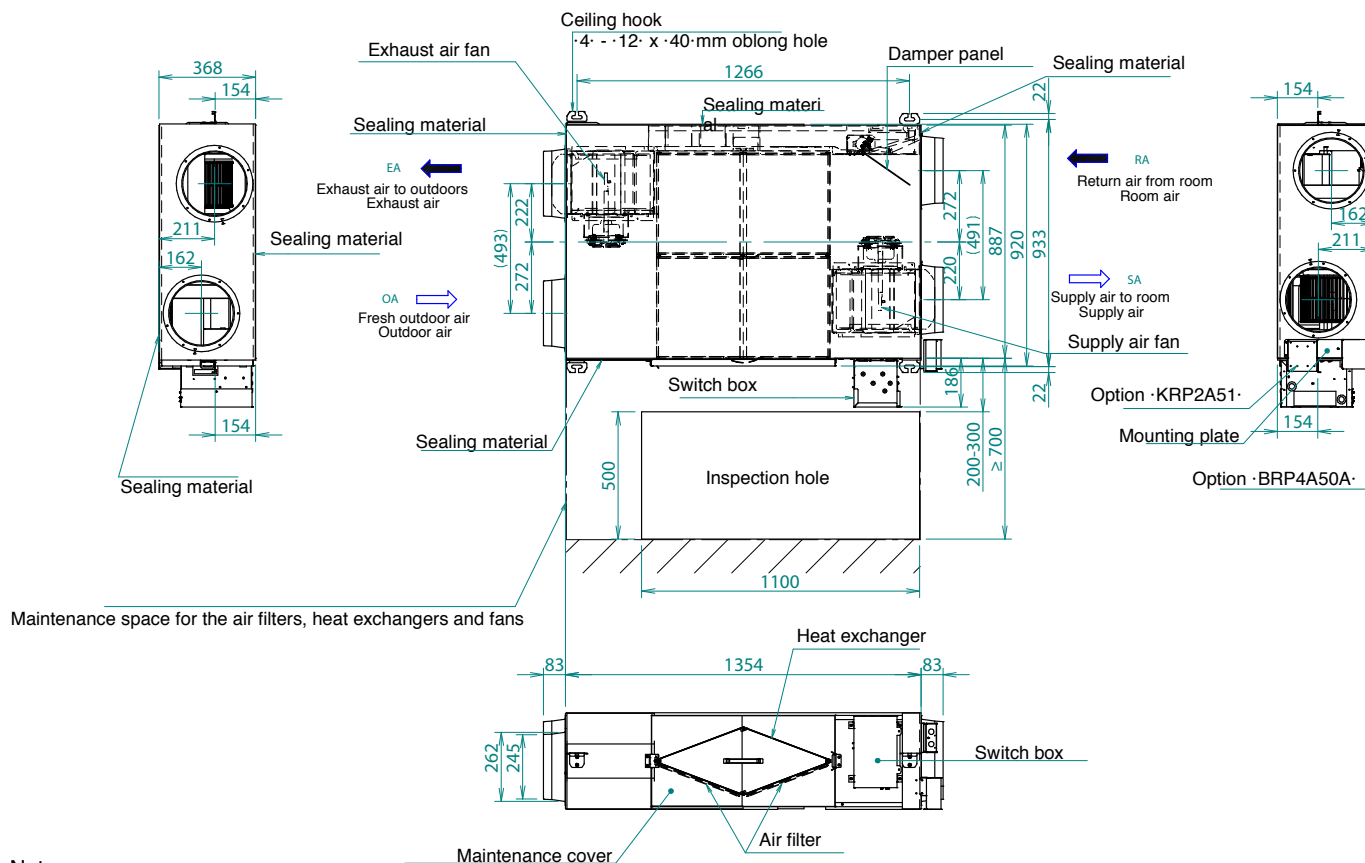


VAM350-500J



3D112815C

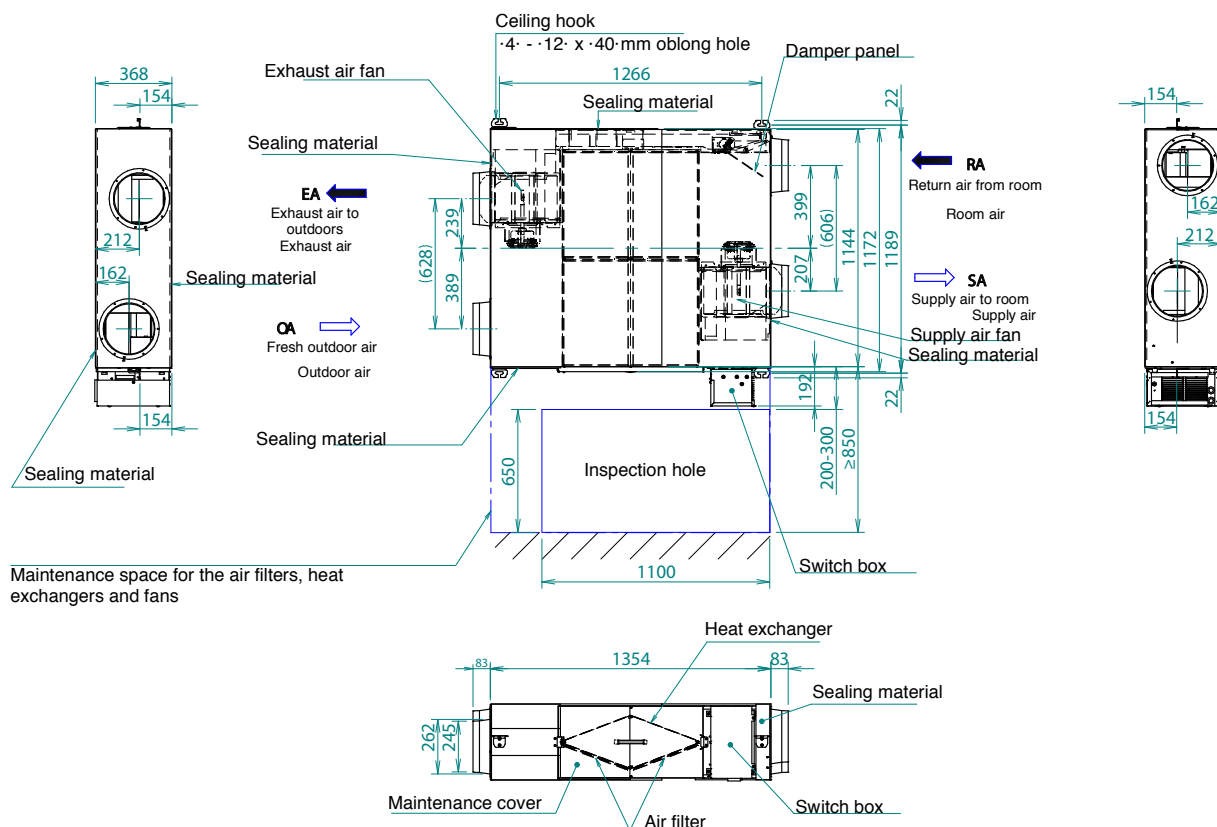
VAM650J



3D113502A



VAM800-1000J

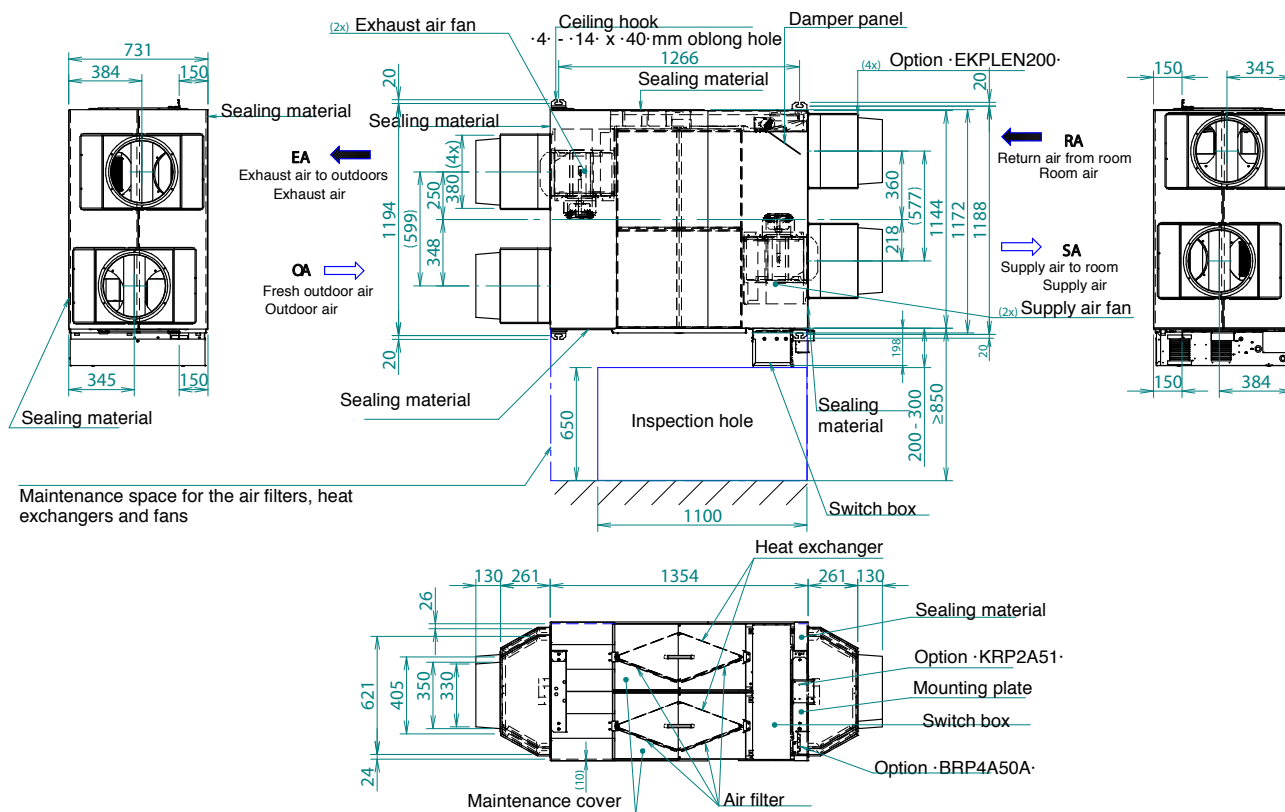


Notes:

1. To perform maintenance on the air filter, it is required to provide a service access panel.

3D112817D

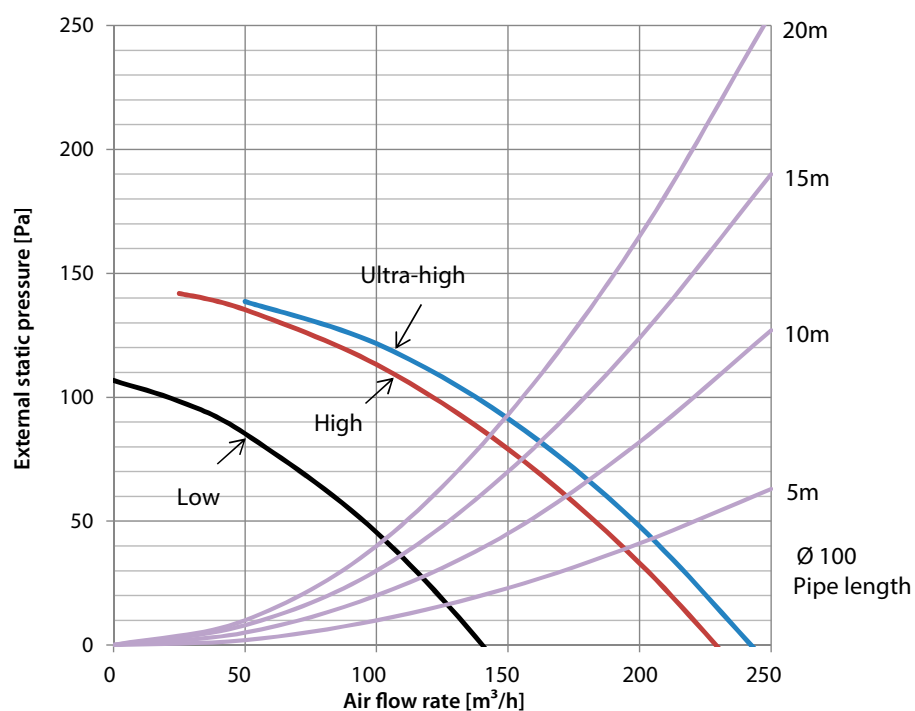
VAM1500-2000J



Notes:

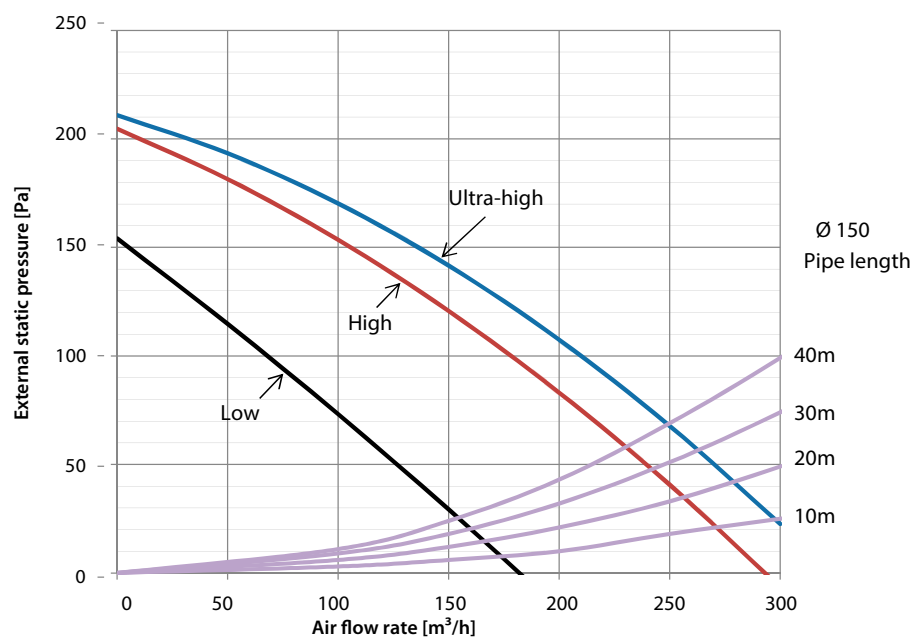
1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112818C

**VAM150FC9**

Notes

1. The fan speeds are valid for ~230-V, ~50-Hz power supply.

4D100379**VAM250FC**

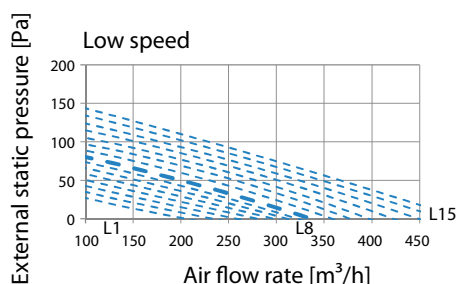
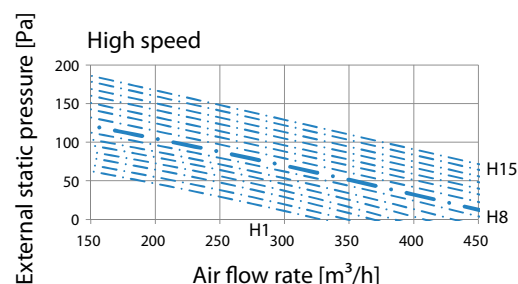
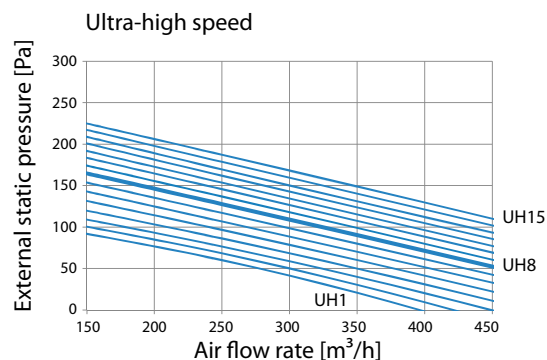
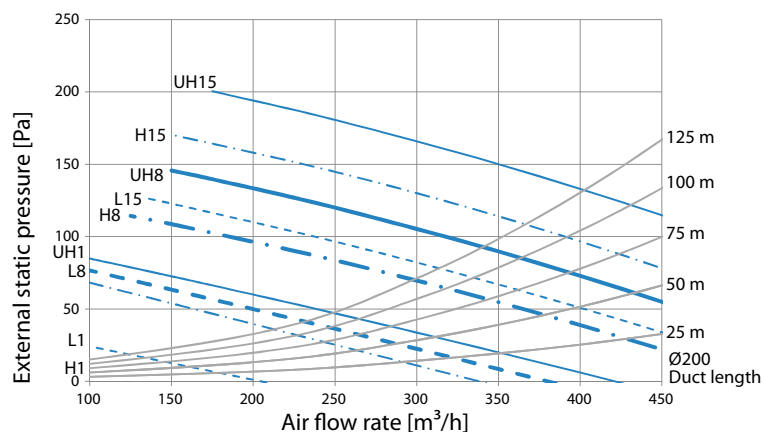
Notes

1. The fan speeds are valid for ~230-V, ~50-Hz power supply.

4D100380



VAM350J



— Ultra-high speed
- - - High speed
- - - Low speed

Notes

- The fan curves are determined with $\cdot 1/3$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- Measured according to JIS B 8628 - 2003.

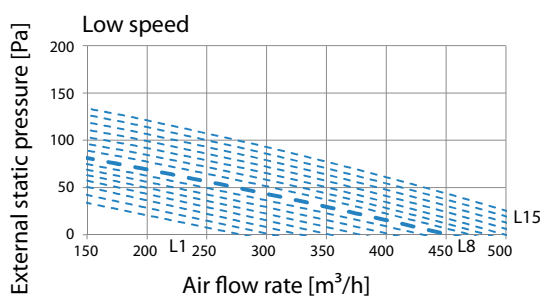
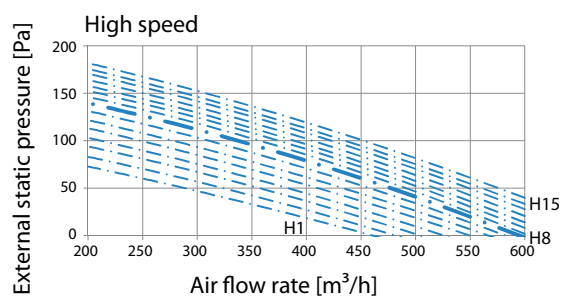
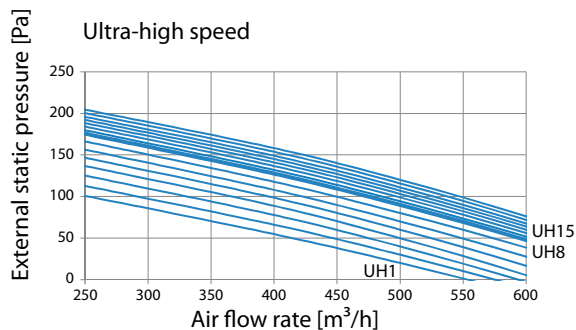
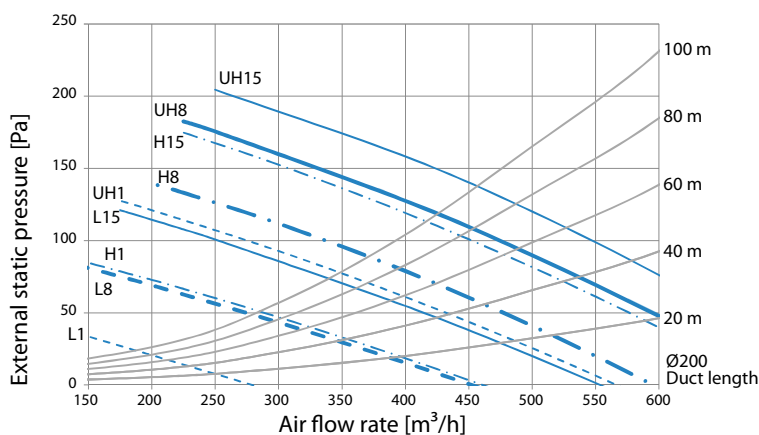
Legend

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

3D113493A

VAM500J



— Ultra-high speed
- - - High speed
- - - Low speed

Notes

- The fan curves are determined with $\cdot 1/3$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- Measured according to JIS B 8628 - 2003.

Legend

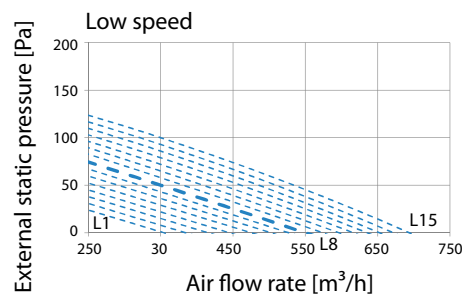
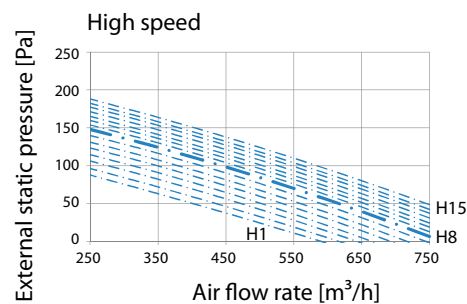
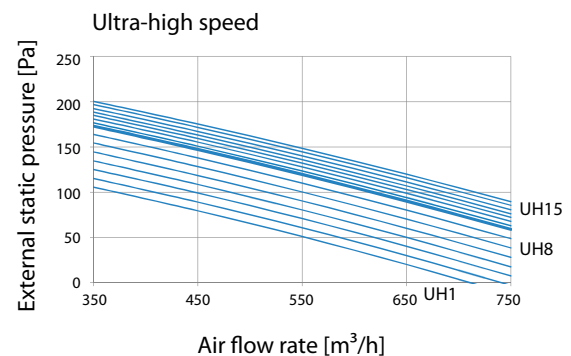
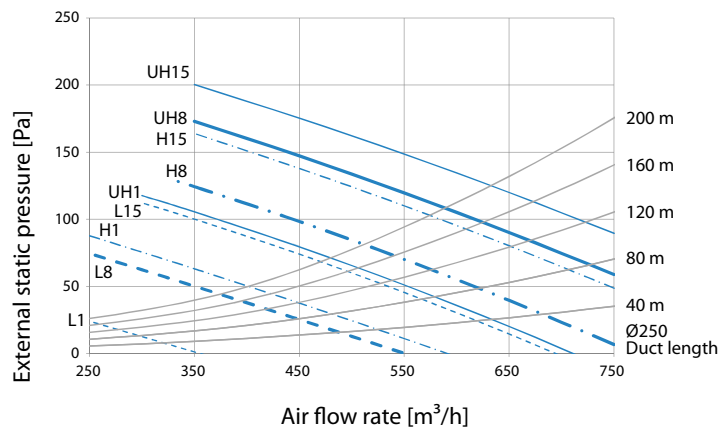
L1 = Low speed lower limit
L8 = Low speed factory setting
L15 = Low speed upper limit
H1 = High speed lower limit
H8 = High speed factory setting
H15 = High speed upper limit

H15 = High speed upper limit
UH1 = Ultra-high speed lower limit
UH8 = Ultra-high speed factory setting
UH15 = Ultra-high speed upper limit

3D113494A



VAM650J



— Ultra-high speed
- - - High speed
- - - Low speed

Notes

- 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
- Measured according to JIS B 8628 - 2003.

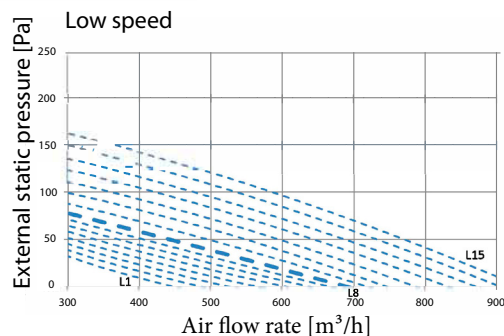
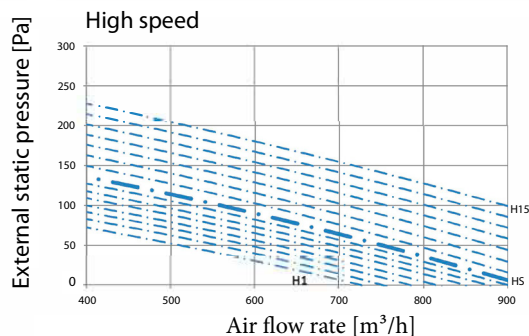
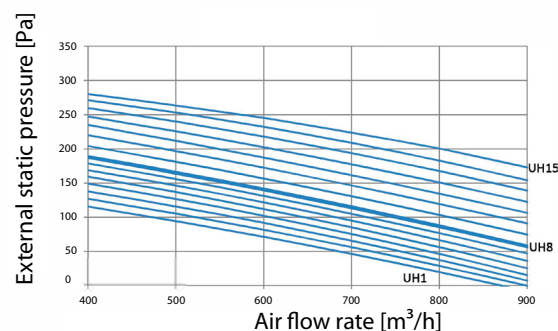
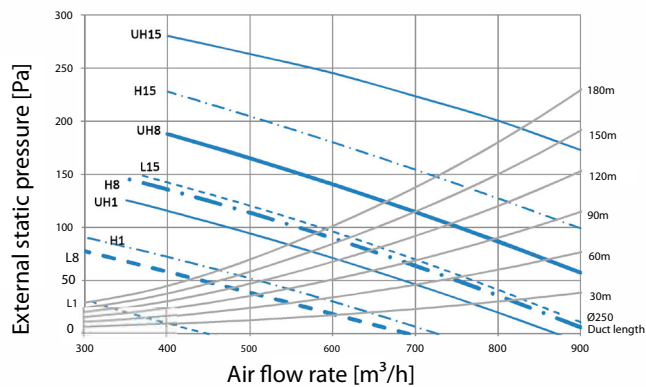
Legend

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

3D113495A

VAM800J



— Ultra-high speed
- - - High speed
- - - Low speed

Notes

- 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
- Measured according to JIS B 8628 - 2003.

Legend

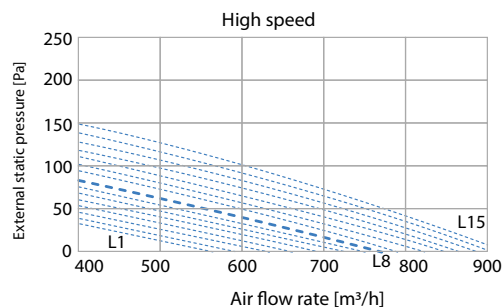
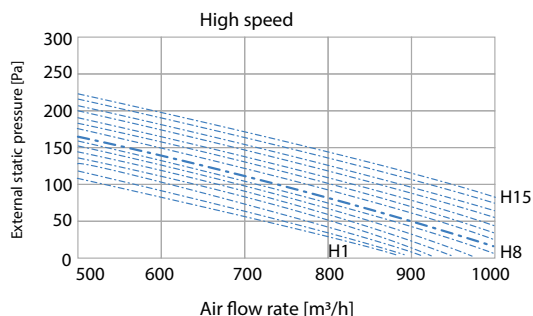
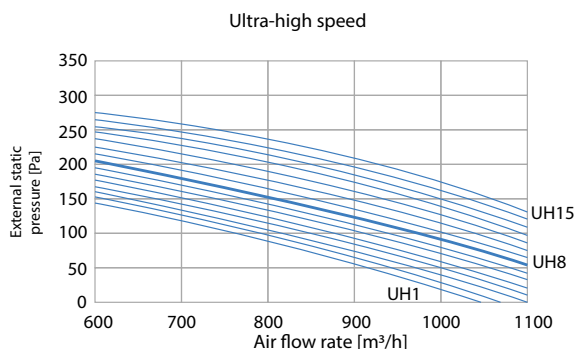
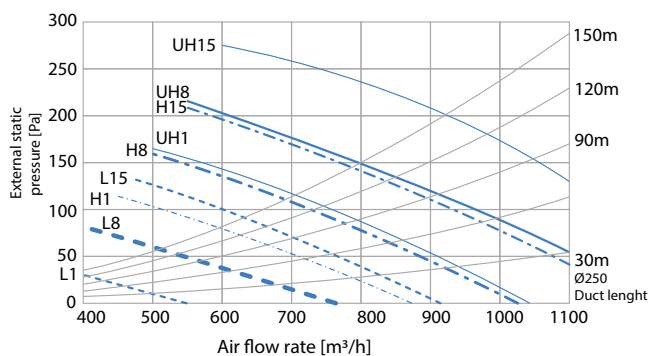
L1 = Low speed lower limit
L8 = Low speed factory setting
L15 = Low speed upper limit
H1 = High speed lower limit
H8 = High speed factory setting

H15 = High speed upper limit
UH1 = Ultra-high speed lower limit
UH8 = Ultra-high speed factory setting
UH15 = Ultra-high speed upper limit

3D112837



VAM1000J



Notes

- The fan curves are determined with $\cdot 1/3$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3$ of the ESP on the indoor side (-RA & SA).

EA= Exhaust air
OA = Outdoor air
RA= Room air
SA= Supply air

— Ultra-high speed
- - - High speed
- - - Low speed

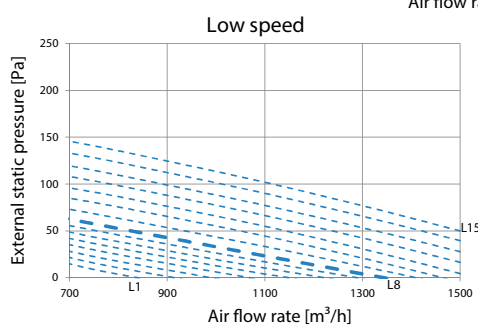
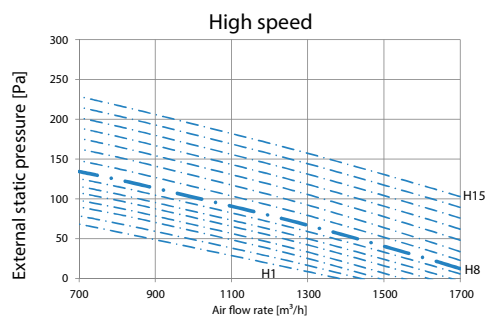
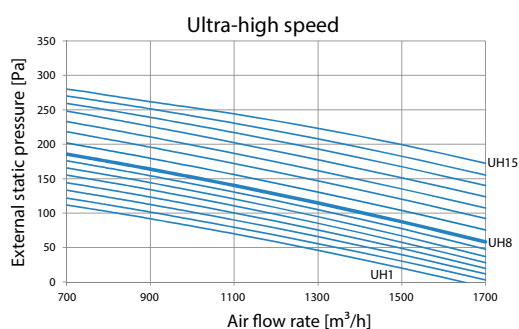
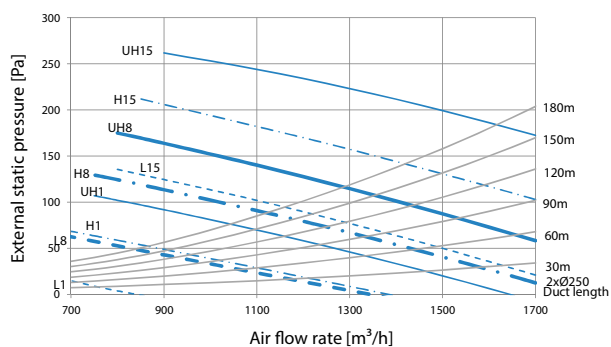
Legend

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

- Measured according to JIS B 8628 - 2003.

D112832

VAM1500J



Notes

- The fan curves are determined with $\cdot 1/3$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3$ of the ESP on the indoor side (-RA & SA).

EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air

- Measured according to JIS B 8628 - 2003.

— Ultra-high speed
- - - High speed
- - - Low speed

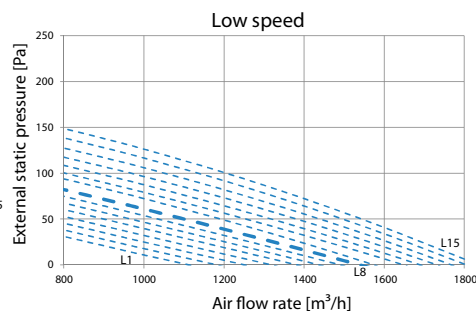
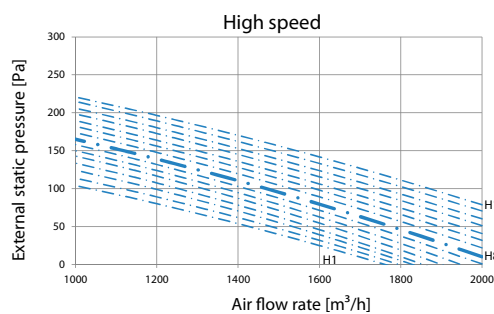
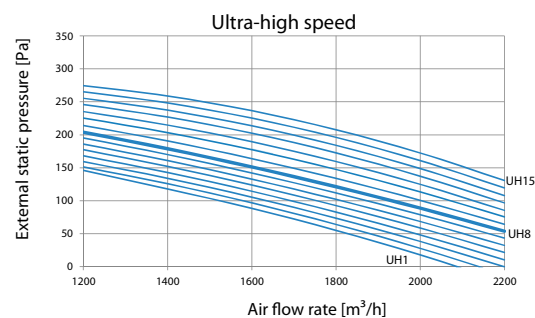
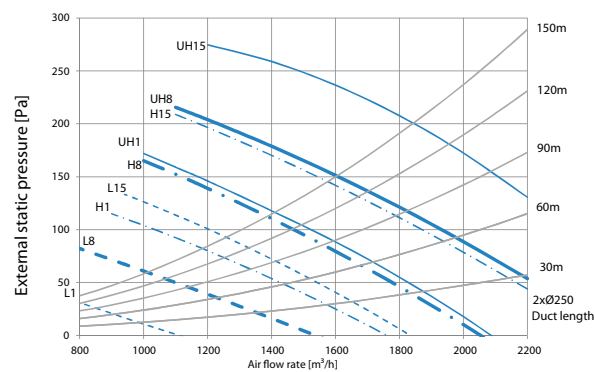
Legend

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

3D112838



VAM2000J



Notes

- The fan curves are determined with $\frac{1}{3}$ of the ESP on the outdoor side (EA & OA), and $\frac{2}{3}$ of the ESP on the indoorside (RA & SA).
EA = Exhaust air
OA = Outdoorair
RA = Room air
SA = Supplyair
- Measured according to JIS B 8628 - 2003.

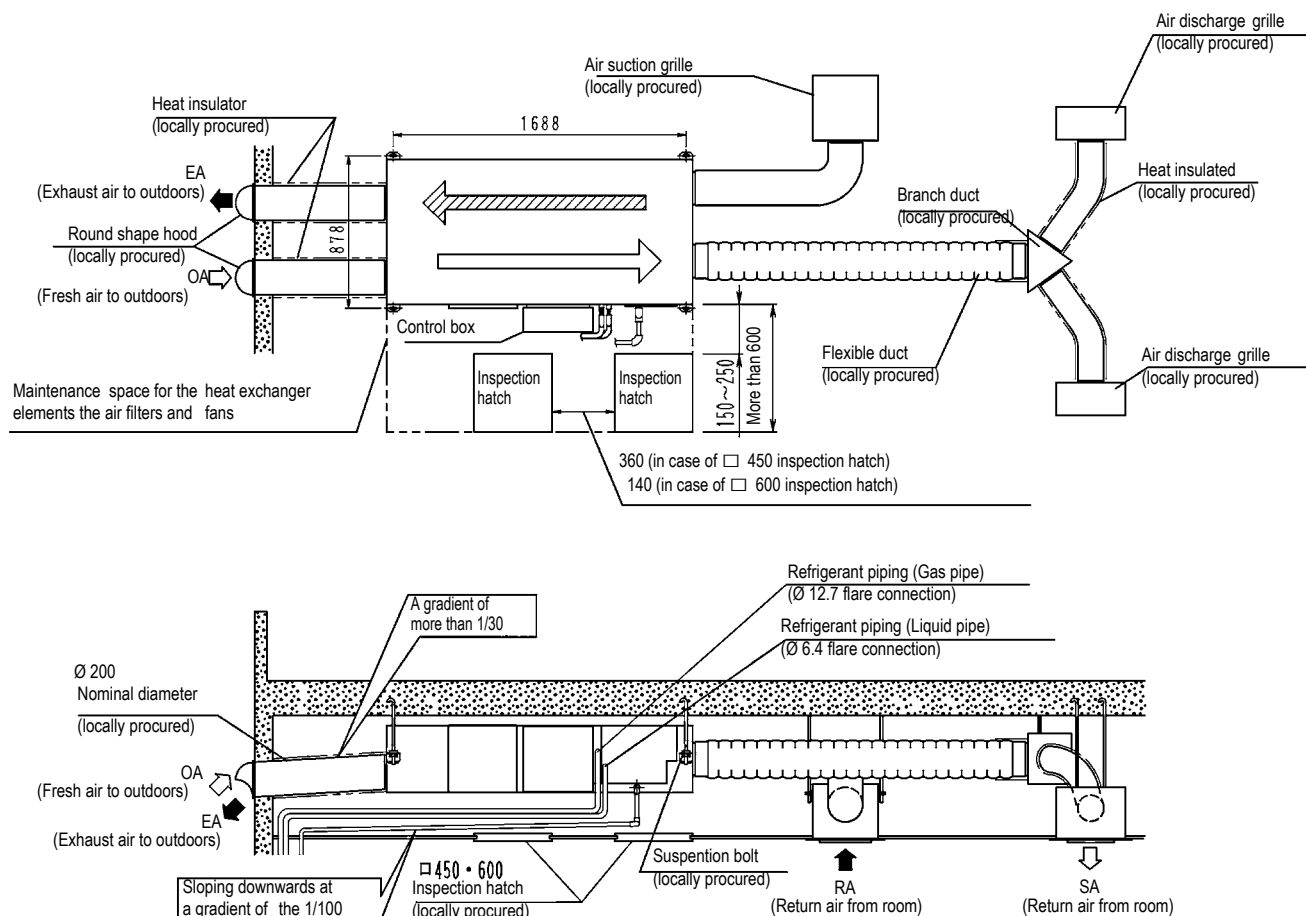
Legend

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

— Ultra-high speed
- - - High speed
- - - Low speed

3D112839

VKM50GB

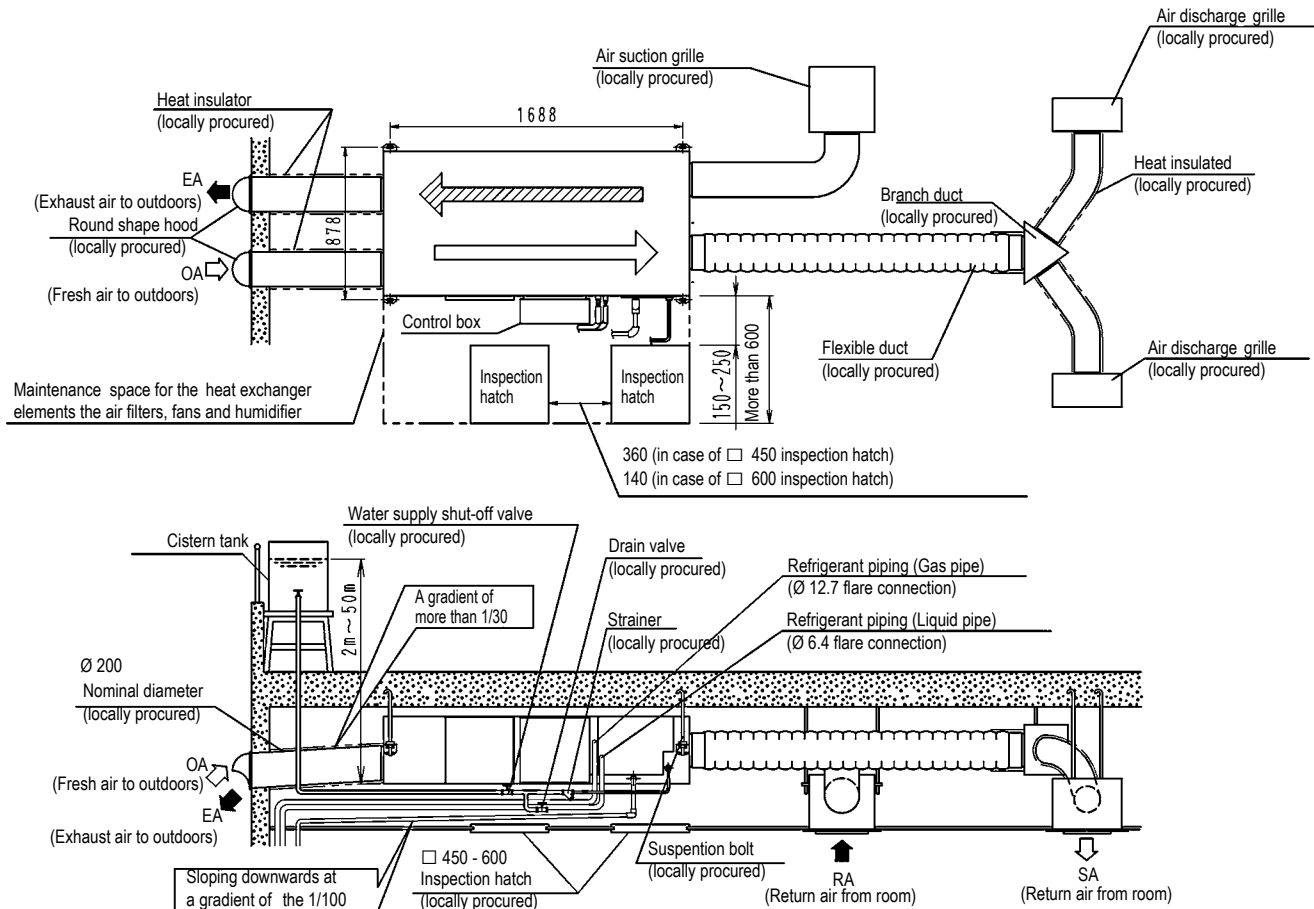


NOTES

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).
7. 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.

3D083014

VKM50GBM

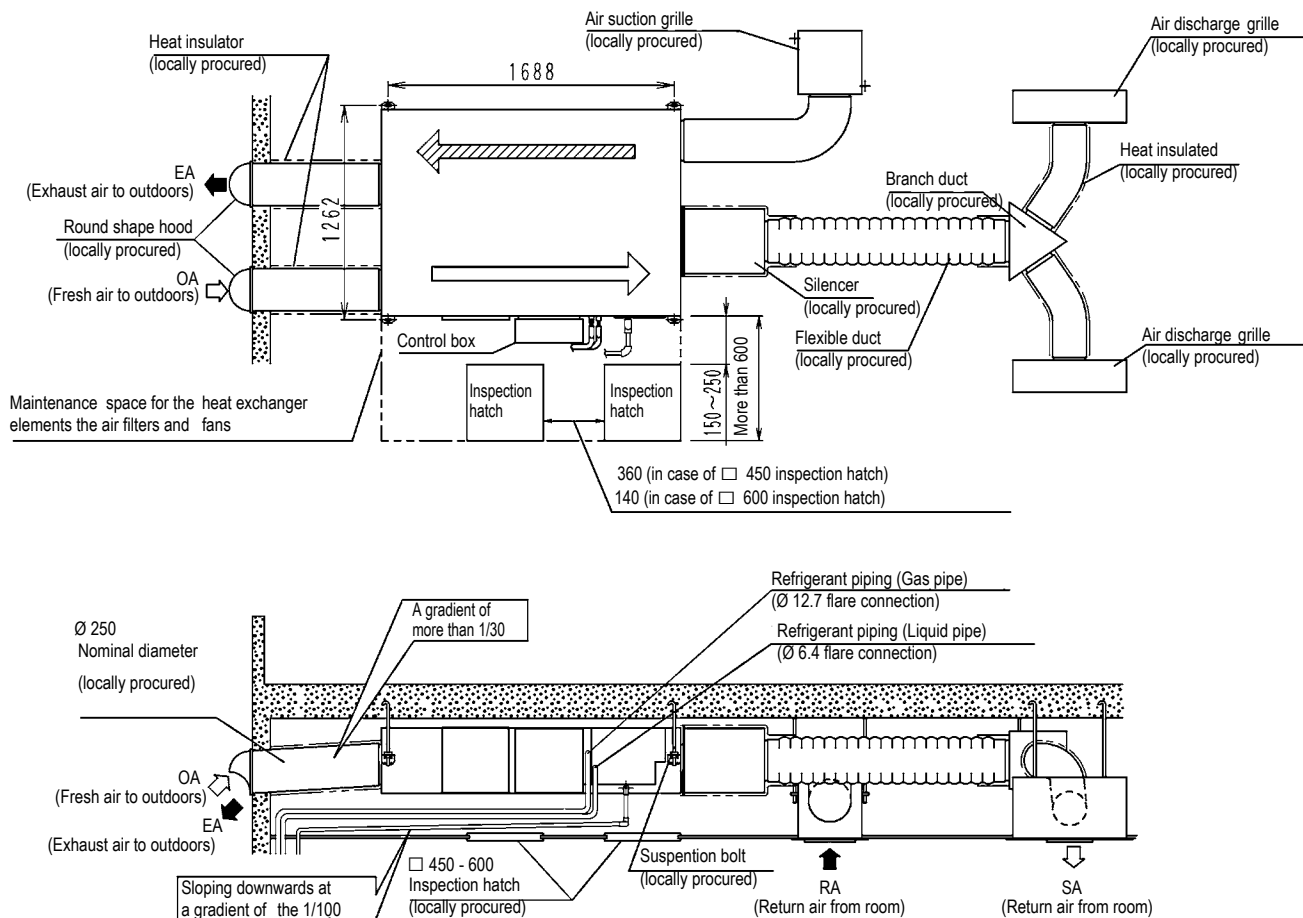


NOTES

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 humidifier 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.)

3D083011

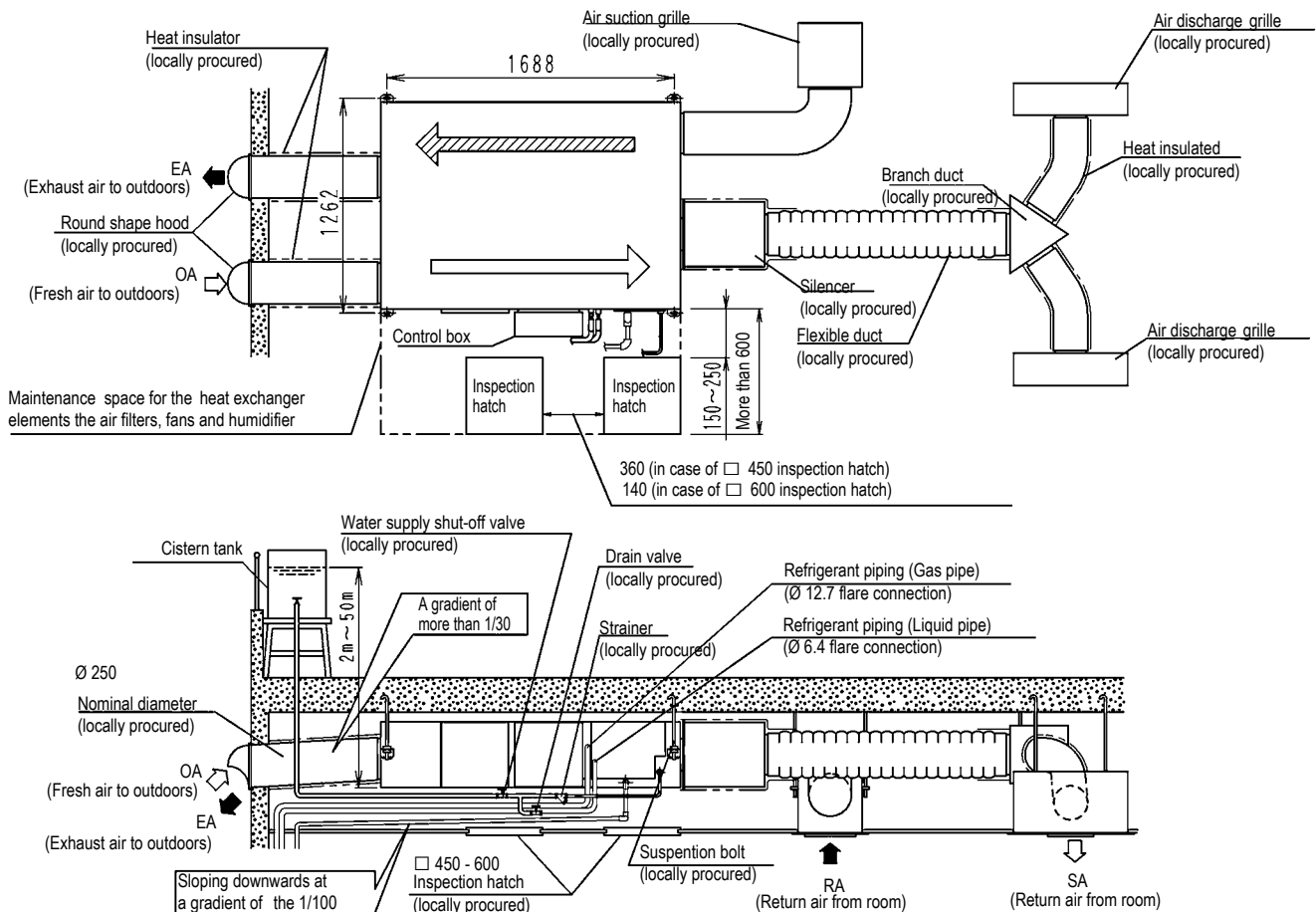
VKM80GB



NOTES

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).
7. 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.

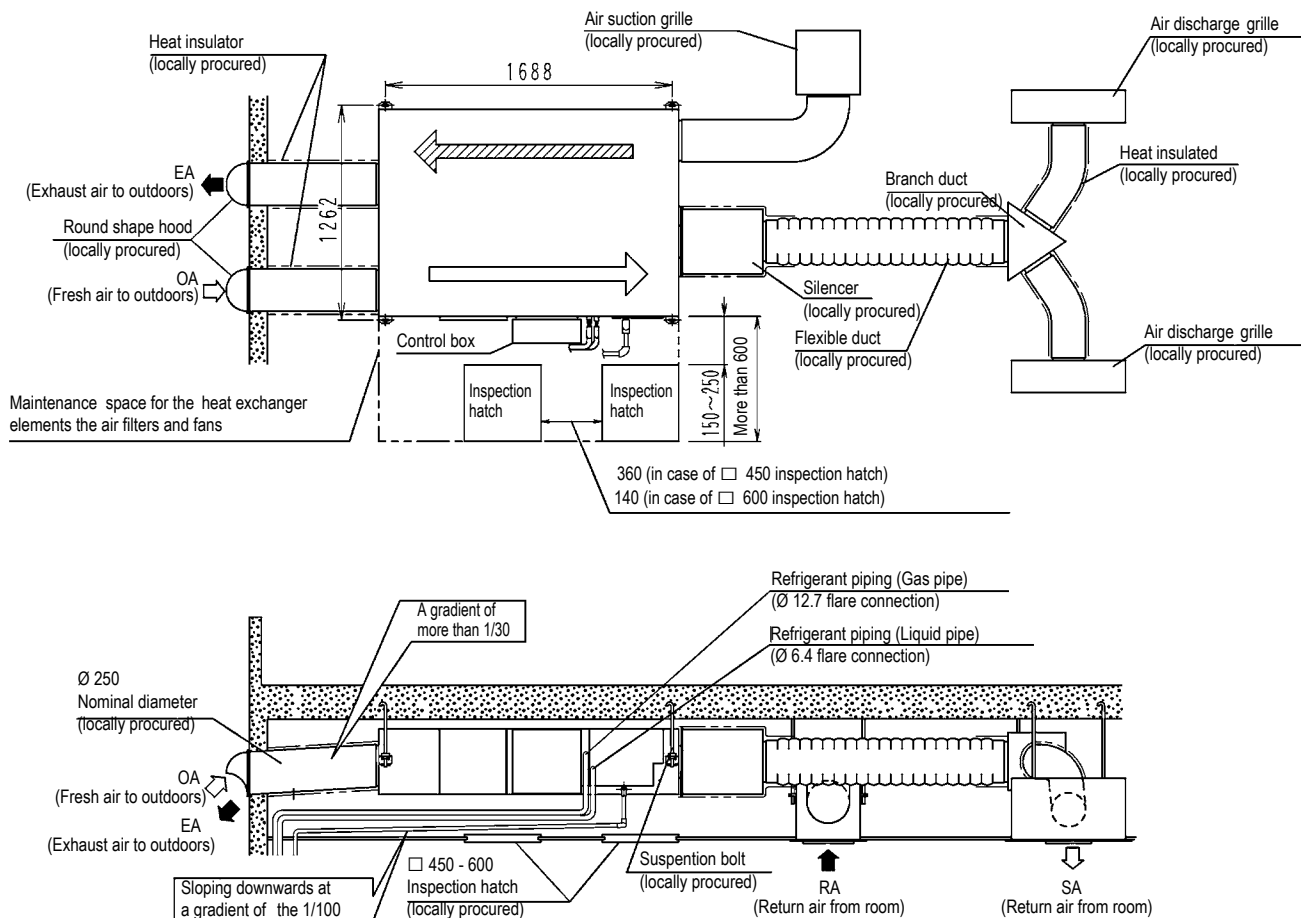
VKM80GBM



NOTES

- 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.)
- 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)
- Do not turn the unit upside down.
- 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
- 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.
- Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- Make sure the supply water is between 5°C and 40°C in temperature.
- Insulate the water supply piping to prevent condensation from forming.
- Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- Install in a location where the air around the unit or taken into the humidifier will not drop below 0°C.
- 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.
- 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.
- 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

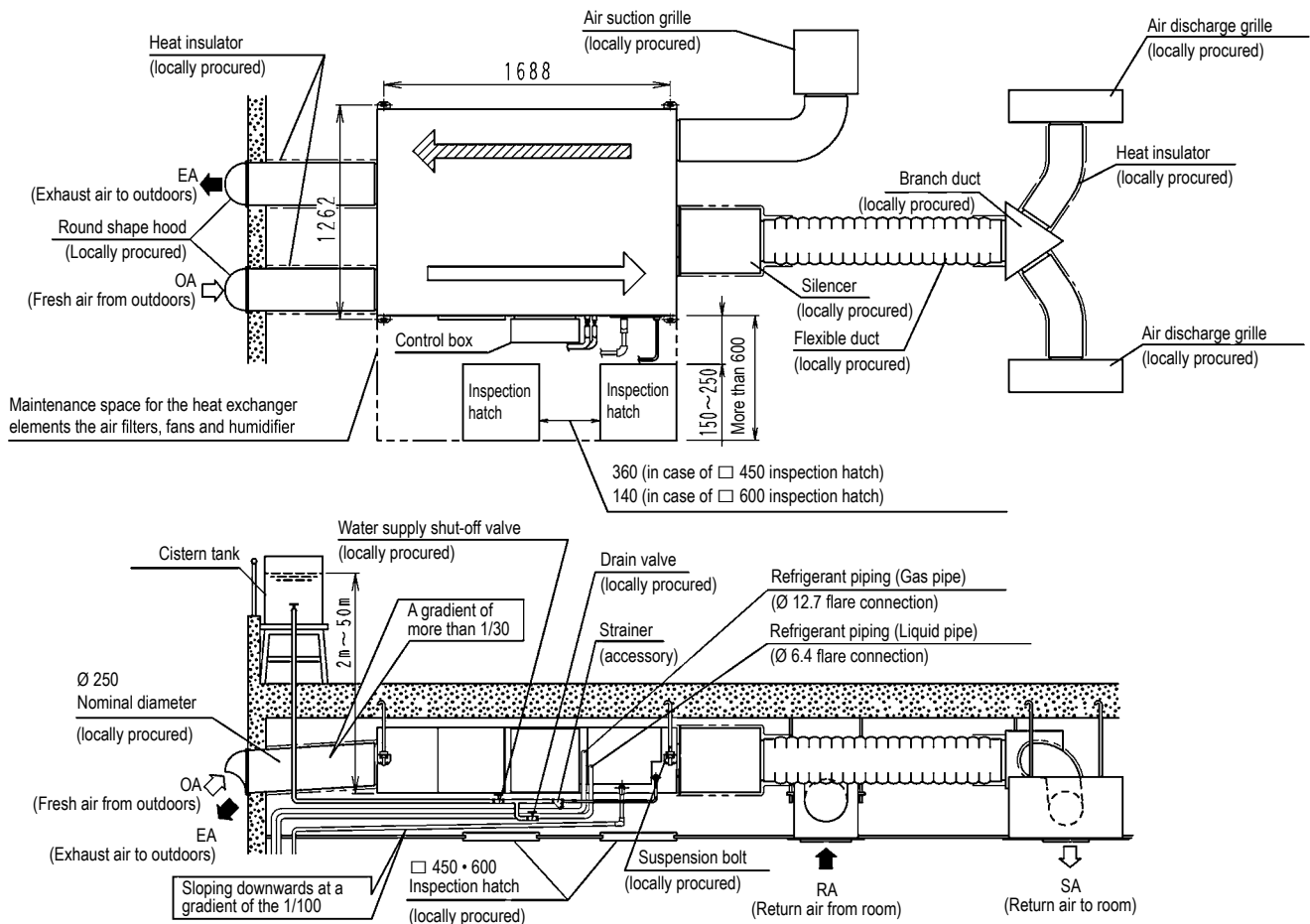


NOTES

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).
7. 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.

3D083016

VKM100GBM



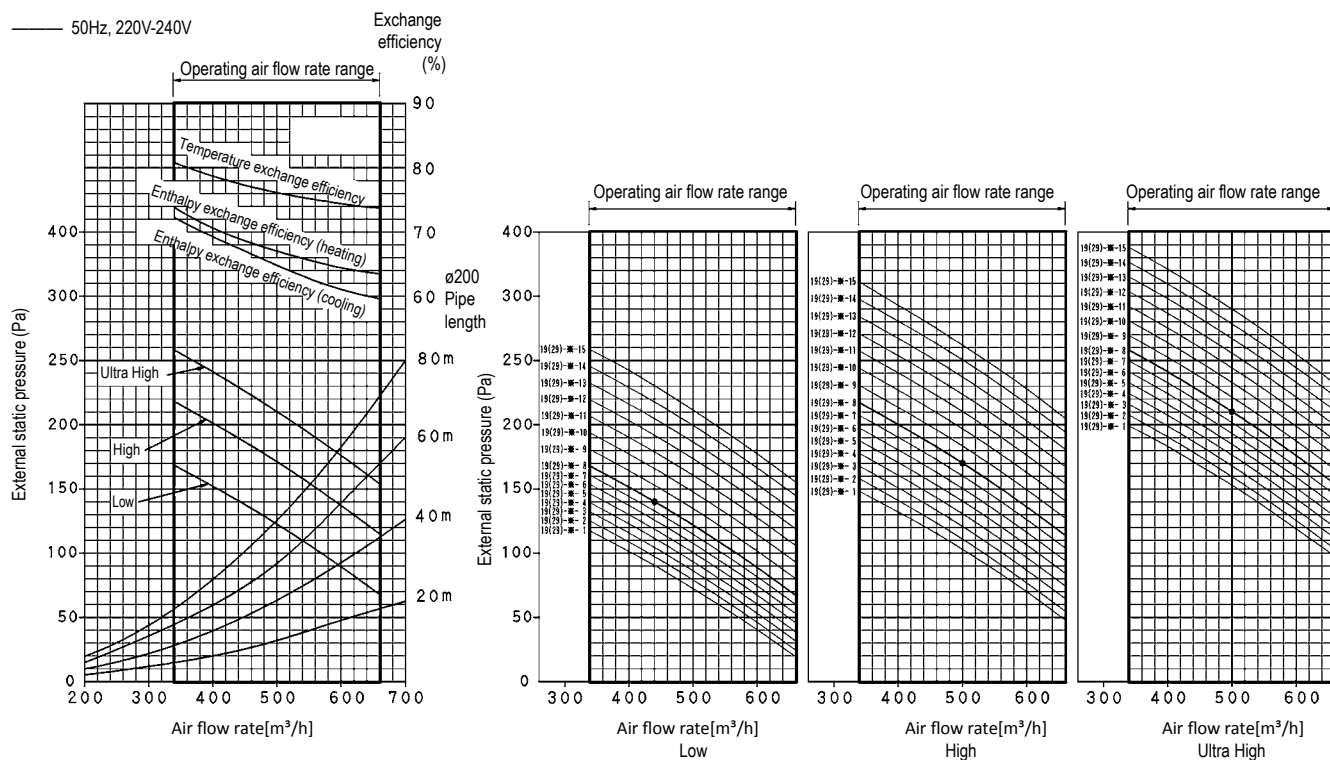
NOTES

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 humidifier 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.)

3D083013



VKM50GB



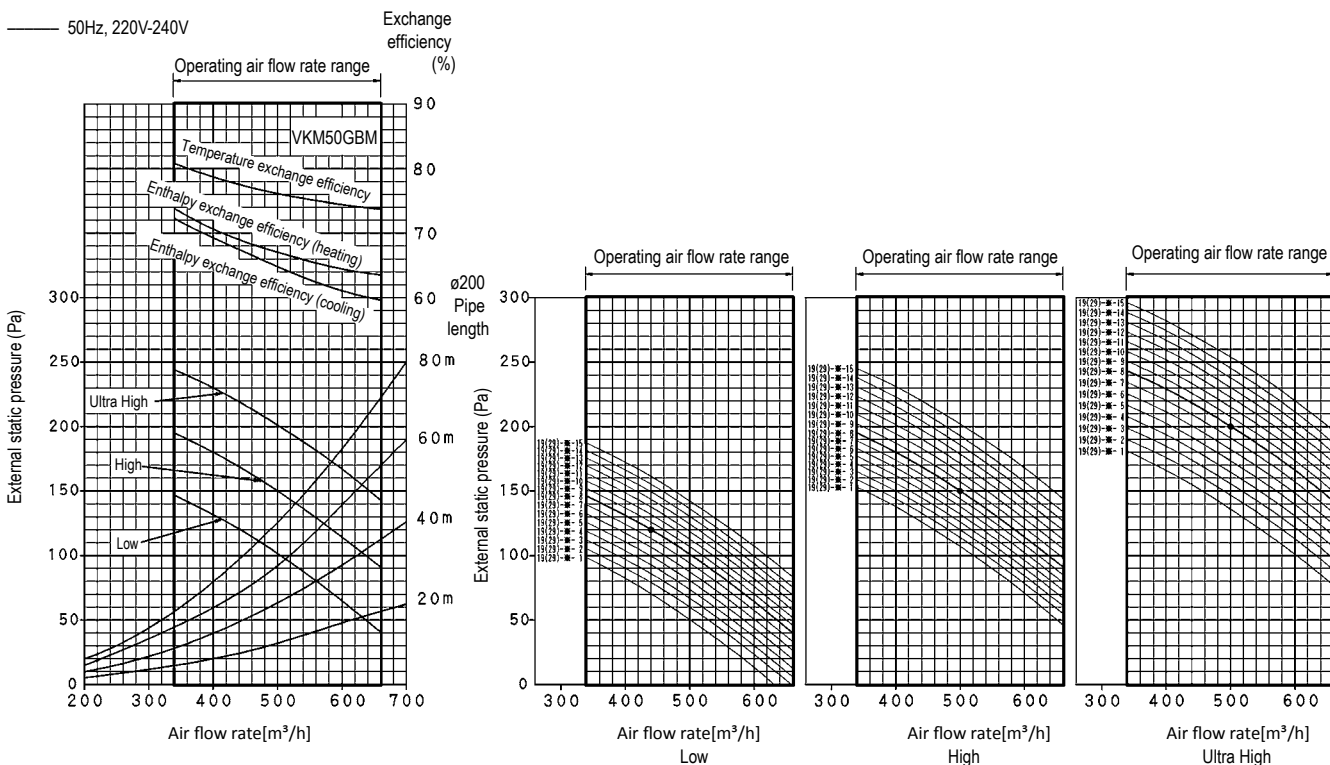
[Reading of Performance Characteristics]

- 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.

3D082904

VKM50GBM

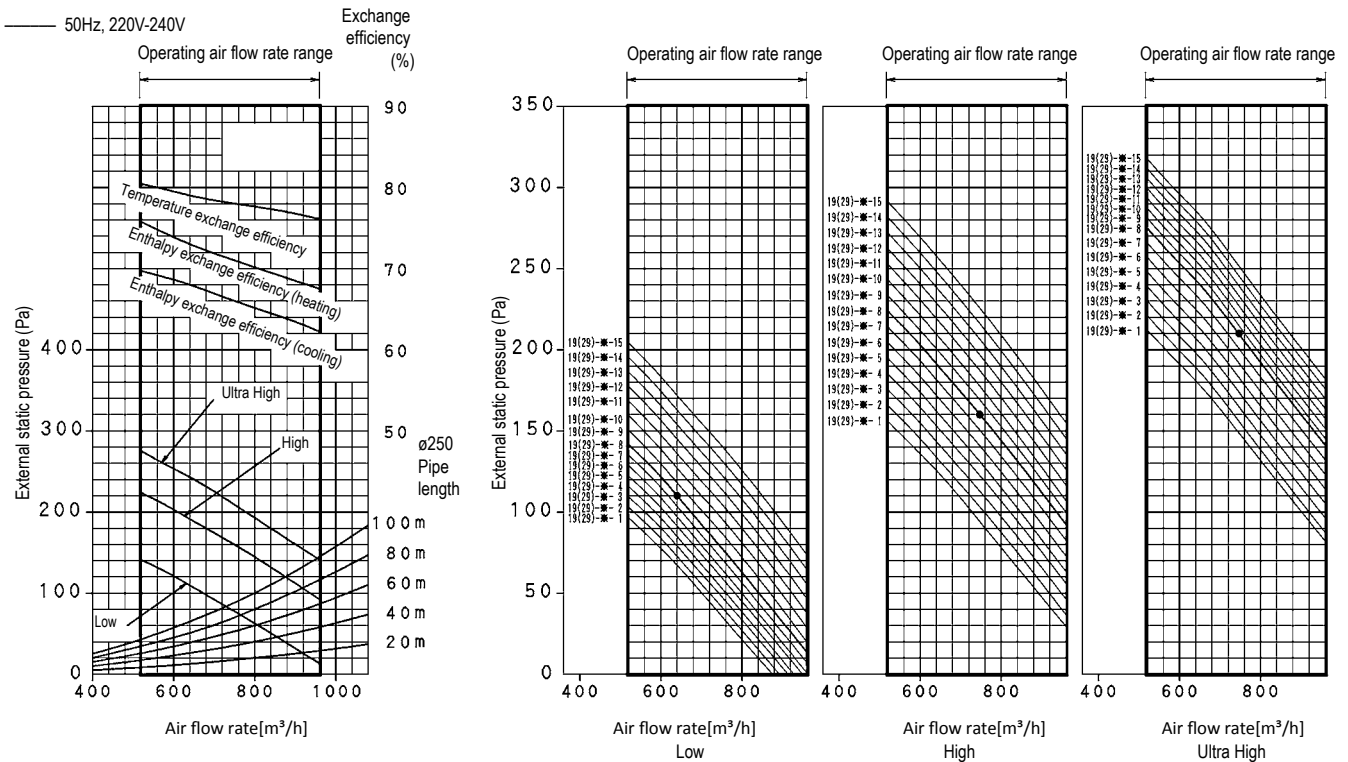


[Reading of Performance Characteristics]

- 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

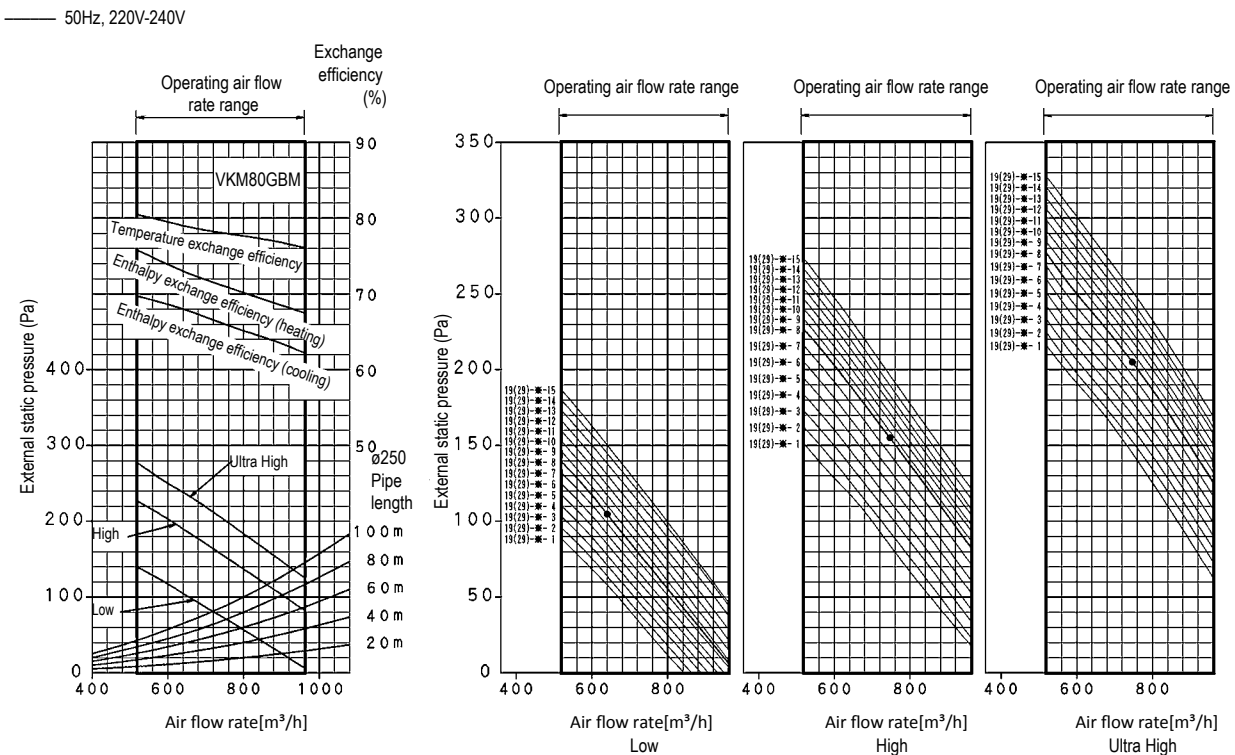
VKM80GB

[Reading of Performance Characteristics]

- 1) For example: 19(29)-~~★~~-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



[Reading of Performance Characteristics]

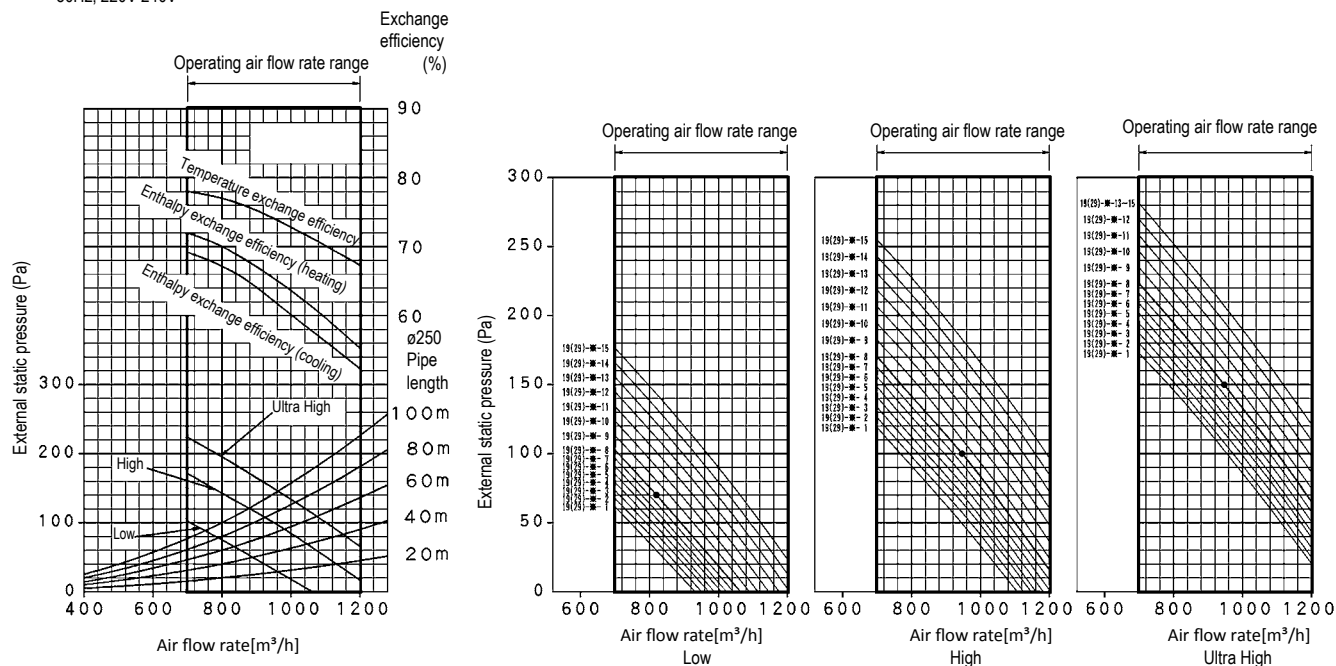
- 1) For example: 19(29)-~~✱~~-07
 Mode no.: 19(29)
 First code: ~~✱~~ (Supply 「2」 Exhaust 「3」)
 Second code no.: 07
- 2) Rated point: ●
- 3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082902



VKM100GB

— 50Hz, 220V-240V



[Reading of Performance Characteristics]

1) For example: 19(29)-M-07

Mode no. : 19(29)

First code: M (Supply 「2」 Exhaust 「3」)

Second code no. : 07

2) Rated point: ●

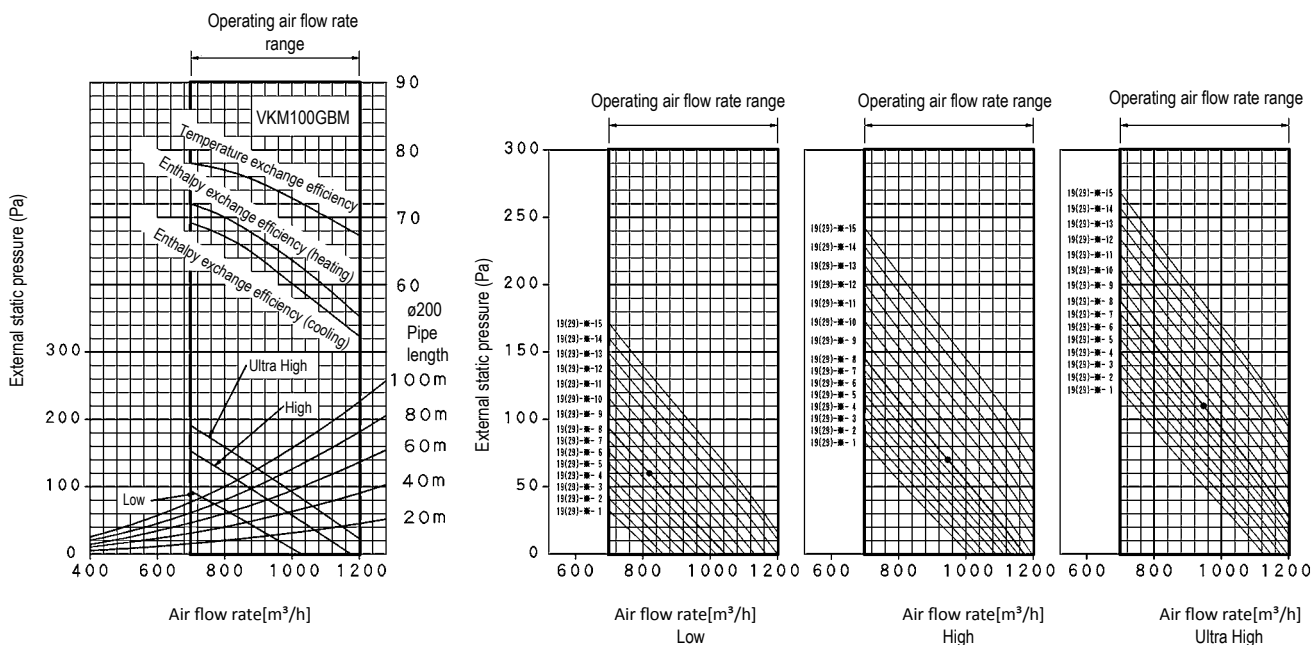
3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082906

VKM100GBM

— 50Hz, 220V-240V

Exchange efficiency (%)



[Reading of Performance Characteristics]

1) For example: 19(29)-M-07

Mode no. : 19(29)

First code: M (Supply 「2」 Exhaust 「3」)

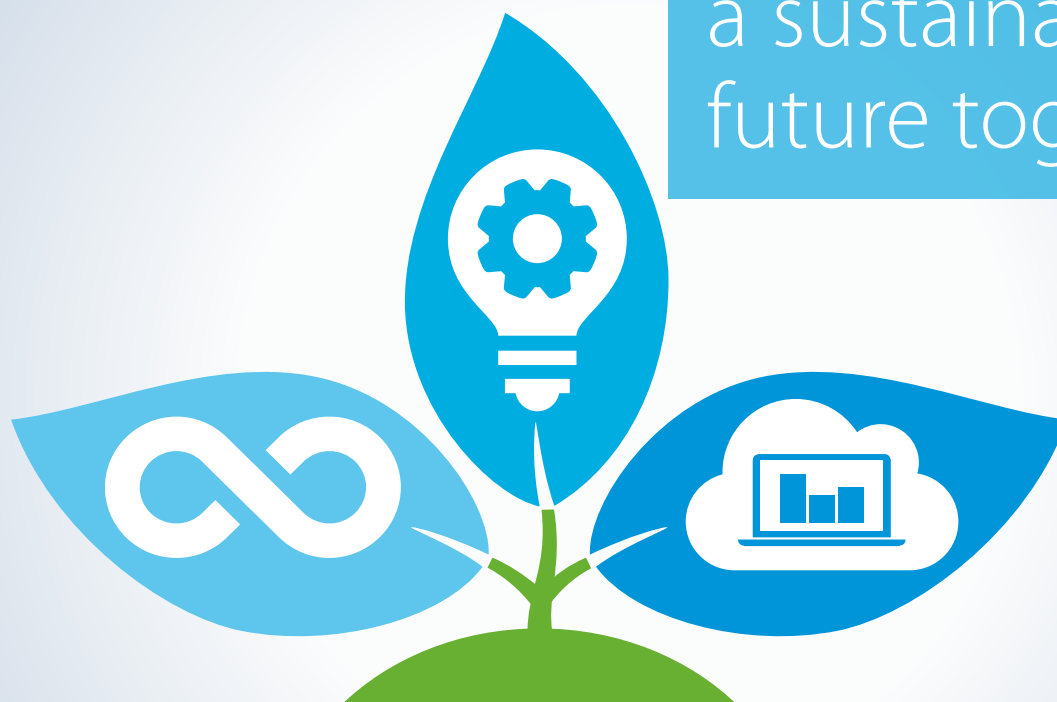
Second code no. : 07

2) Rated point: ●

3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082903

Creating a sustainable future together



Determined to reduce our environmental footprint, we aim to be CO₂-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

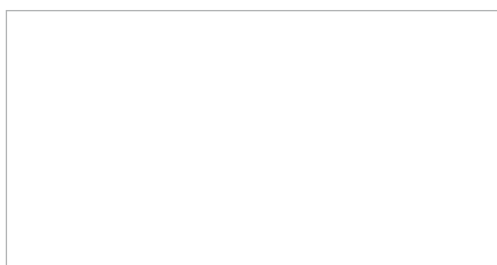


Through smart use

- › 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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