DAIKIN

VRV

VRV

Product Catalogue 2023

VRV: Purpose-built to support the decarbonisation of commerical buildings

Climate 360 NET

What's new?

Extending the VRV 5 total solution

p. 28
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NEW

Extending our market-leading portfolio

› Integration of AHUs via new extended range of expansion valve kits and control boxes
› Maximum design flexibility, thanks to Shîrudo Technology
› Top sustainability over the entire lifecycle

UV Streamer kit

BAEF125AWB

NEW

p. 48

› Purifies the air of pollutants such as viruses, bacteria, fine dust, odours and allergens
› Removes 99.90% of viruses in 30 minutes thanks to the Catch and Clean approach
  • Highly efficient F7 filter (ISO classification under testing)
  • UVC light and Streamer technology for cleaning and decompostion of pollutants
› Available in combination with standard and white Round Flow decoration panels
› Can be reftrofitted into existing installations

Extension of multi-zoning kits

AZEZ6DAIBS07

NEW

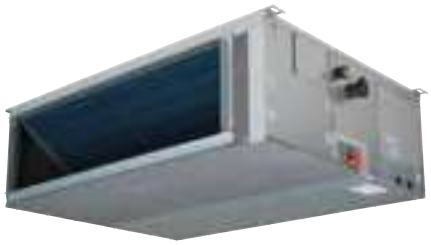
p.134

› New lower height range directly connectable to medium ESP concealed ceiling units
› The multi-zoning system is a room-by-room controller, fitted with motorised dampers
› Up to 8 individual zones can be served
› Time-saving as plenum comes fully pre-assembled with dampers and control boards

Concealed ceiling unit with high ESP

FXMQ-A

p. 137



NEW

- Ideal for large sized spaces, ESP up to 270Pa
- Large capacity up to 31.5 kW
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Drain pump available as option
- Pre-filters and high efficiency filter options

Modular T Smart

ATB-L/S

NEW

- Top connected Air Handling Unit, reducing the unit's footprint
- Superior IAQ level: filtration on supply side up to ePM1.0 90%
- Plug & Play control solution, for a quick and easy start-up
- DX coil integration to connect to VRV or ERQ

Intelligent Touch Manager

DCM601B51

p. 189

UPDATE

- New power cut off and quiet operation control
- Improved Touch Panel operability
- New Software version 1.31.00
- ITM plus adaptor replaced by DIII Plus adaptor and slot with new design

Tightfit – Fireless copper pipe connector

p. 206

NEW

- Non-brazed connection for refrigerant piping
- Can be used without any special tools or permits
- Extremely durable

Continuing our path to lower CO_2 equivalent solutions

VRV 5 S-series | VRV 5 Heat Recovery | VRV 5 Heat Pump

Innovation and adaptation are at the heart of Daikin's decarbonisation strategy. When it comes to refrigerant selection, we have a diversity of choice that we are constantly evaluating to determine the appropriate refrigerant for each application and convert our portfolio to lower GWP refrigerants.

For VRV heat pumps, Daikin has assessed various refrigerants based on four criteria: overall environmental impact, energy efficiency, safety and cost-effectiveness. R-32 was determined to be the most balanced for direct expansion heat pumps.

Since launching the VRV 5 S-series with R-32 in 2020, we continue to expand our VRV portfolio with the launch of the VRV 5 Heat Recovery system and a VRV 5 heat pump in the near future.

Benefits of R-32

R-32 refrigerant has a lower Global Warming Potential and higher efficiency compared to R-410A, making it the most effective sustainable solution for VRF systems today.

- **Lower Global Warming Potential** (GWP): only 1/3rd of R-410A
- **Lower refrigerant charge**: 15% less compared to R-410A
- **Higher energy efficiency**, greatly reducing the indirect CO_2 eq. impact
- **Single component refrigerant**, easy to handle and recycle

R-32 VRV 5

Benefits of VRV heat pumps

VRV systems offer commercial buildings maximum flexibility and peace of mind thanks to the advantages direct expansion (DX) systems have to offer:

- **More responsive:** Immediate reaction to changing conditions helps avoid overheating
- **Highly efficient:** Only two energy transfer steps are needed (from air to refrigerant, and from refrigerant to air)
- **Quick and easy to install:** All-in-one box solution without any requirement for field supplied equipment (e.g. gauges, pumps and valves)
- **Limited space requirements:** All components are integrated, and refrigerant piping is compact

VRV
Commercial air-to-air heat pumps

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Building a sustainable legacy together

Air surrounds us, and our very existence depends on it. At Daikin, the future of the world's indoor air is our greatest concern.

Daikin envisions a world with healthier indoor air while reducing our environmental impact. Driven by a dedication to achieve net zero CO_2 emissions by 2050, we provide **safe, healthy and comfortable spaces** throughout the building life cycle using **world-leading technology.**

Building on our **long-term partnerships**, let's all work together to achieve our goals, protecting the health and wellbeing of every individual.

Supporting decarbonization

We must act now to ensure we create a long-lasting legacy. As a company that values sustainability, we want to help to **decarbonize** buildings and create a **healthy** environment for generations to come.

Taking on the sustainable transformation, our solutions reduce the CO_2 footprint of buildings, whether they are new builds or renovations:

- Reusing existing refrigerant through **L∞P Daikin**, we reuse resources already available in the market, fully supporting the EU circular economy by reducing the carbon footprint
- Introducing any virgin refrigerant using **lower GWP refrigerants** such as R-32 reducing the direct CO2eq impact
- Maximizing sustainability over the entire life cycle, thanks to market-leading **real life seasonal efficiencies**
- Ensuring systems run efficiently 24/7 through **smart controls**

Building for the future

As market leaders in total solutions, we are constantly innovating to offer you a **comfortable, healthy and safe** environment, meeting your needs. Reliability, support and precision are characteristics of our future-proof products and services. We offer:

- A **wide range** of next-generation heat pumps to meet complex demands, including **easy upgrading extending the lifetime of our equipment.**
- Expert **indoor air quality solutions** through our ventilation and filtration systems to eliminate pollutants and balance humidity levels.

A journey we take together

Let's travel the sustainability journey together. We provide expert **support** throughout the building life cycle and give **peace of mind** by ensuring what we do is **future-proof** and is helping to build a better future.

- Our team of **experts** go beyond product support. Together, we will reach your green objectives.
- We are there for you **all the time**: via our local customer support teams and e-commerce solutions.
- We're in it for the **long term**. We deliver what we commit to, providing clear and trustworthy data.

9 reasons why VRV is unique in the market

1 Leaders in sustainability

NEW › VRV 5: dedicated R-32 VRV design
- Less refrigerant charge
- Higher efficiency
- Lower CO_2 equivalent

› L∞P by Daikin: the creation of a circular economy of refrigerants
- Saves over 400,000 kgs of virgin refrigerant being produced every year
- Greatly reduces the CO_2 foorprint of refrigerant production
- For all VRV units produced and sold in Europe*

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

VRV 5 BLUEVOLUTION

CO_2

LOOP BY DAIKIN

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®

ErP 2021 COMPLIANT

3 Comfort

› Provides high Indoor Air Quality though seamless integration of AHU's (For VRV IV models)
› Variable Refrigerant Temperature prevents cold draughts in cooling thanks to high outblow temperatures
› True continuous heating during defrost
› Presence and floor sensors direct the air flow away from occupants, while ensuring an even temperature distribution
› Auto cleaning filters ensure optimum air quality
NEW › UV Streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours and allergens

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, available in white, silver and black
› Fully flat cassette, fully integrated in the ceiling, choice of grey or white panel

6 Controls

› Voice control via Amazon Alexa and Google Assistant through BRP069C51 Onecta app (For VRV 5 models)
› 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 and 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

7-segment display

8 Inventor of VRV with over 40 years of history

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

VRV

Variable Refrigerant Temperature

9 A solution for every application

› 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 for settings where the outdoor unit needs to be compact and out of view
› Replacement solutions to replace existing systems in the most cost-effective way

Which VRV

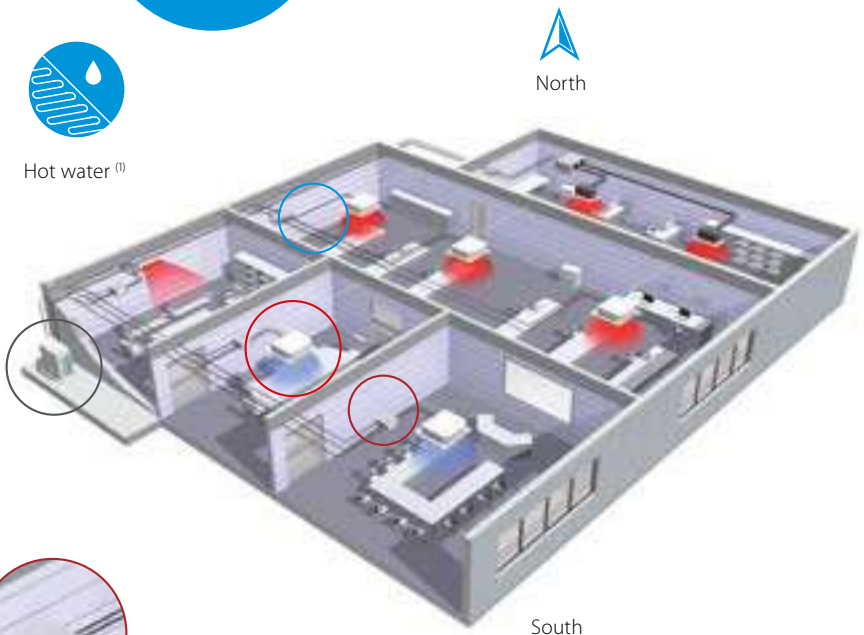
system offers me the best solution?

Heat recovery or heat pump?
VRV Heat Recovery

Additional credits for green building certificate

Extracted heat is used to deliver "free" heating and hot water [1]

Cooling + Heating + Hot water [1]



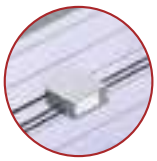
- Simultaneous heating **AND** cooling from one system
- "Free" heating and hot water production [1] by transferring heat from areas requiring cooling
- Maximum individual comfort in all areas
- Technical cooling down to -20°C
- Running costs of VRV heat recovery system can be 30 to 40% lower compared to water fan coil system [2]

Components:


Outdoor unit


Indoor unit


3-pipe refrigerant piping


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

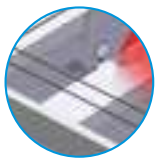
VRV Heat Pump

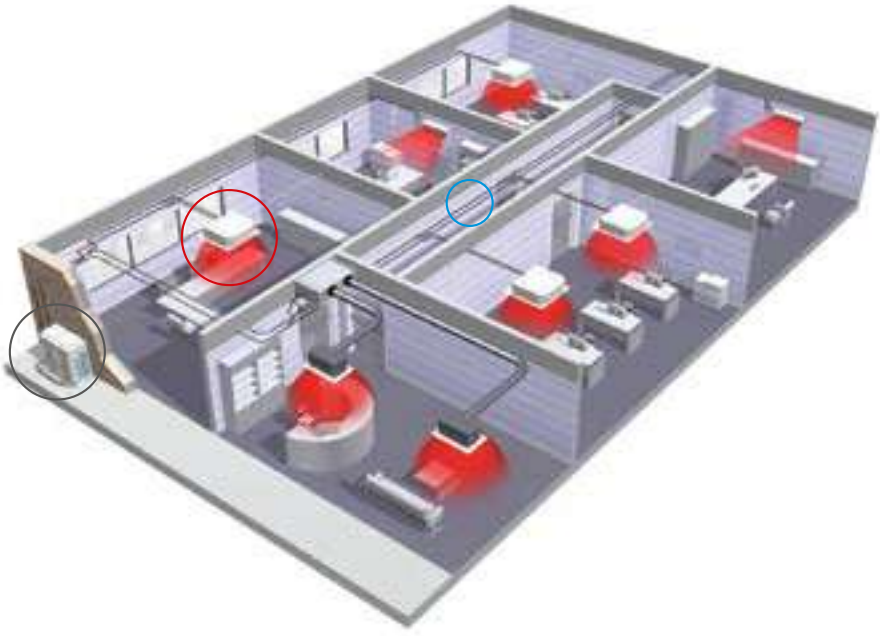
- For either heating **OR** cooling operation from one system

Components:


Outdoor unit


Indoor unit


2-pipe refrigerant piping



(1) Hot water hydrobox connection only in combination with VRV IV+ heat recovery
(2) 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
- Reduces CO_2 emmisions thanks to the use of geothermal energy as a renewable energy source
- Allows heat recovery in the entire building thanks to the storage of energy in the water circuit
- Lower refrigerant levels thanks to the limited distance between outdoor and indoor units

Additional credits for green building certificate

Components:


Outdoor unit


Indoor unit


Refrigerant piping


(Geothermal) water loop


Geothermal application

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

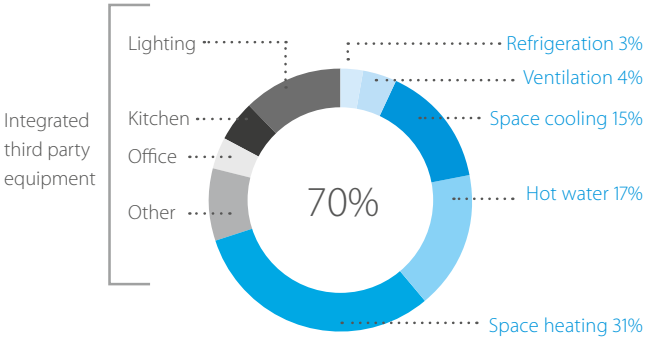
a total solution managing up to

70%

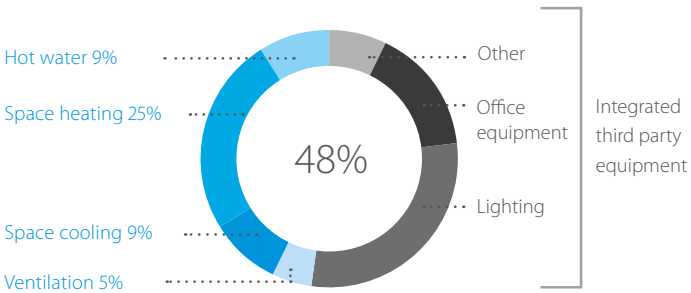
of a buildings energy consumption

- **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

Hotels
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 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

Homes
Cost-effective comfort

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

VRV benefits & technologies

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

VRV benefits & technologies

Drastically reducing your running costs 16
Top reliability 20
Comfort guaranteed at all times 22
Great design flexibility 24
Fast installation and commissioning, easy servicing 26

Benefits of direct expansion (DX) systems

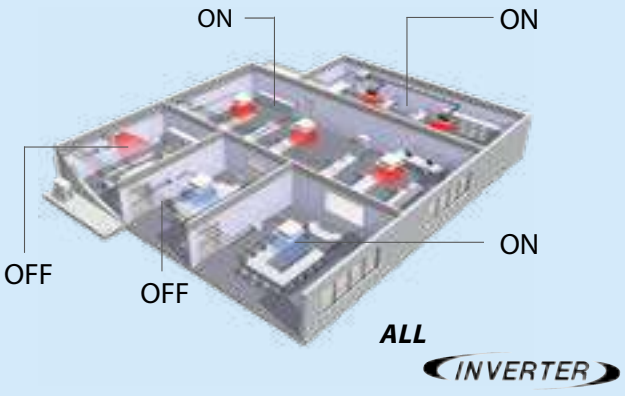
Highly efficient

› Only two energy transfer steps maximise efficiency. Running costs of a water-based fan coil unit can be 40 to 72% higher compared to a VRV heat recovery system

Air → Refrigerant → Air

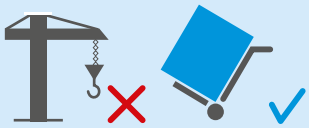
Precise zone control

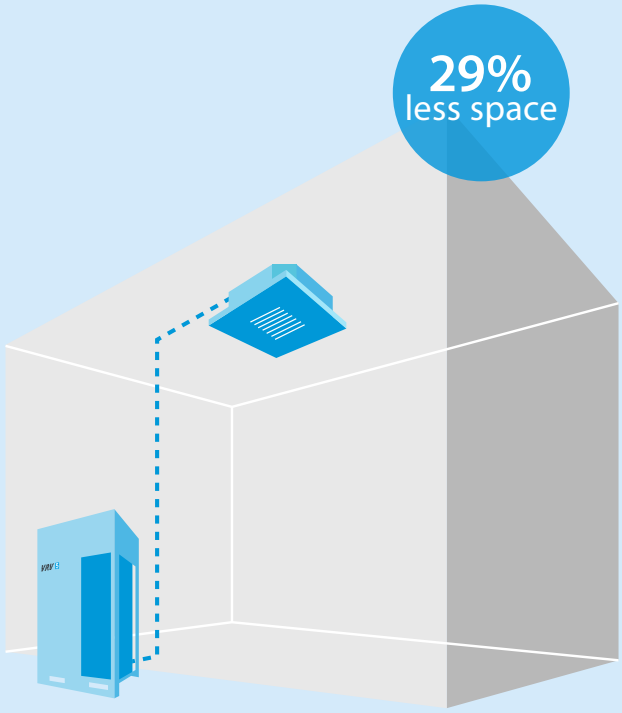
› Only operates in the areas in need of heating or cooling
› Immediate reaction to changing conditions and precise control to 0.5°C



Compact units

› Avoid the need for structural reinforcement or special equipment to lift units in place





Quick and easy to install

› All-in-one box solution without any requirement for field supplied equipment (e.g. gauges, pumps and valves)
› Small piping diameters
› Up to 20% less space required compared to traditional water-based systems, offering more lettable space

Drastically reducing running costs

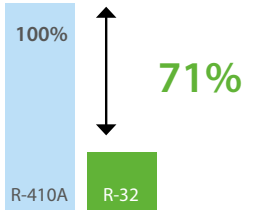
⊕ Innovative technologies offering market-leading efficiencies

⊕ Flexibility to meet the building load at the highest efficiency

BLUEVOLUTION

Introducing R-32 refrigerant on VRV5

› Lower Global Warming Potential (GWP): only one-third of R-410A
› Lower refrigerant charge: 15% less compared to R-410A
› Higher energy efficiency
› Single component refrigerant, easy to handle and recycle



Potential global warming impact

-71%

potential global warming impact

Only two energy transfer steps

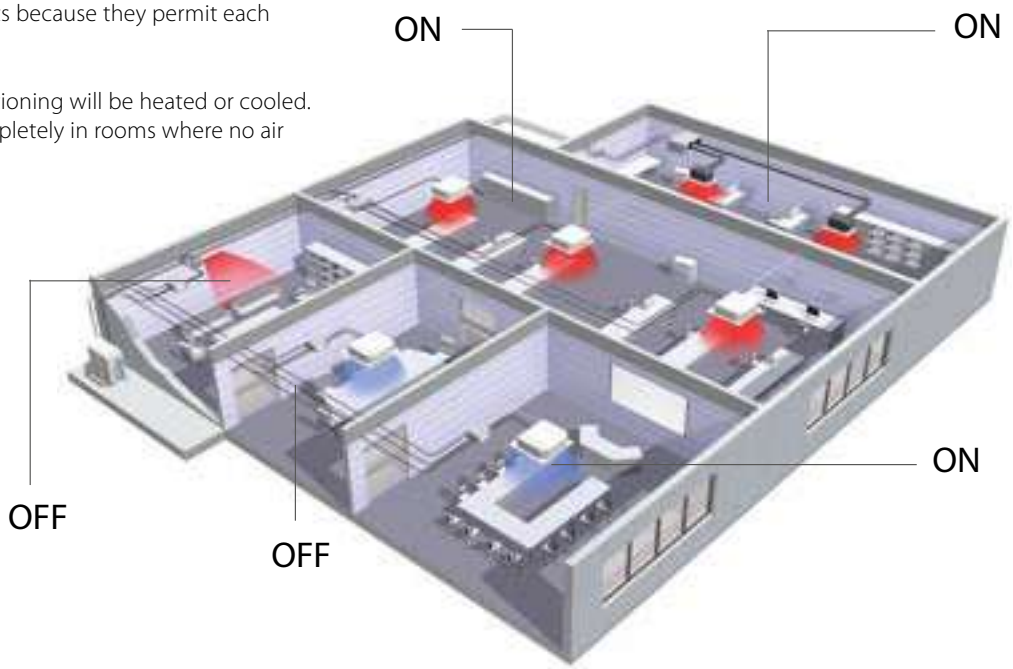
› Maximised efficiency thanks to direct expansion (DX) technology
› Running costs of a water-based fan coil unit can be 40 to 70% higher compared to a VRV heat recovery system

Air › Refrigerant › Air

Precise zone control

VRV systems have low running costs because they permit each zone to be controlled individually.

Only the rooms requiring air conditioning will be heated or cooled. The system can be shut down completely in rooms where no air conditioning is required.



Variable refrigerant temperature

The biggest leap since the inverter compressor

Thanks to its revolutionary variable refrigerant temperature technology (VRT), VRV 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?

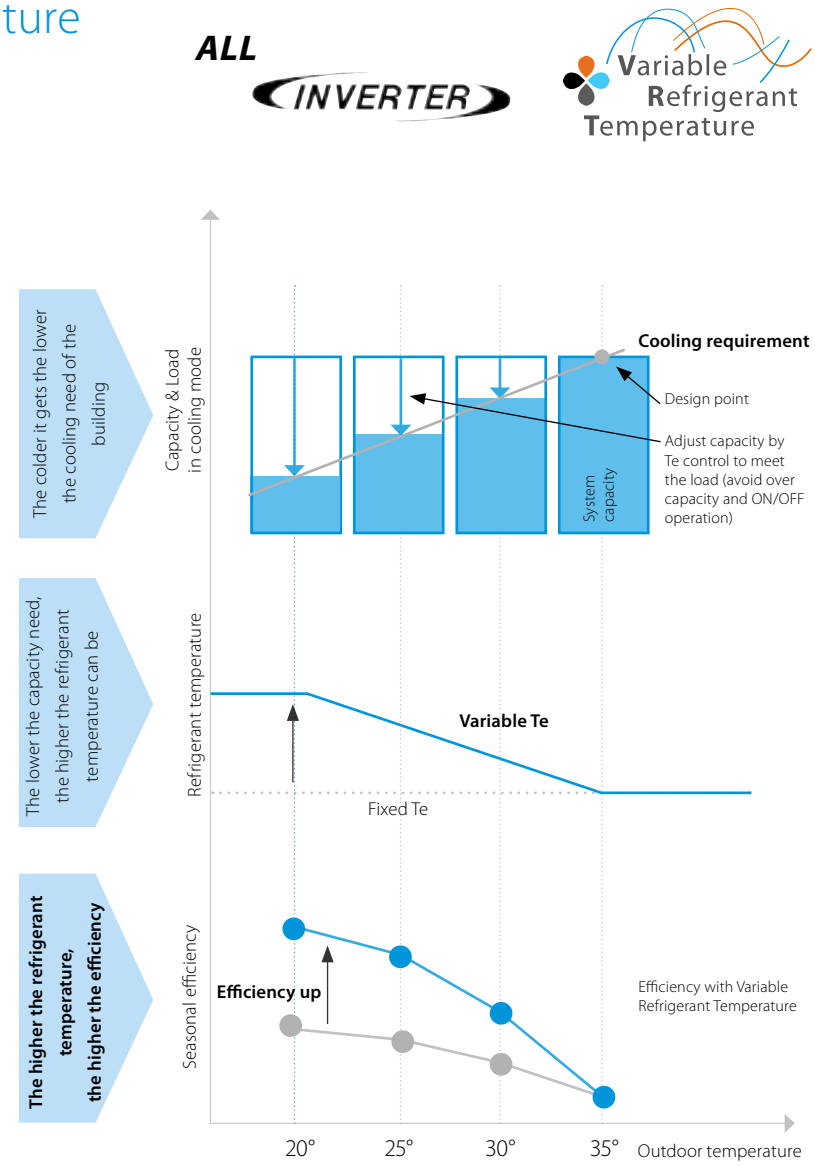
VRF standard
Capacity is controlled only with the variation of the inverter compressor.

Daikin VRV

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

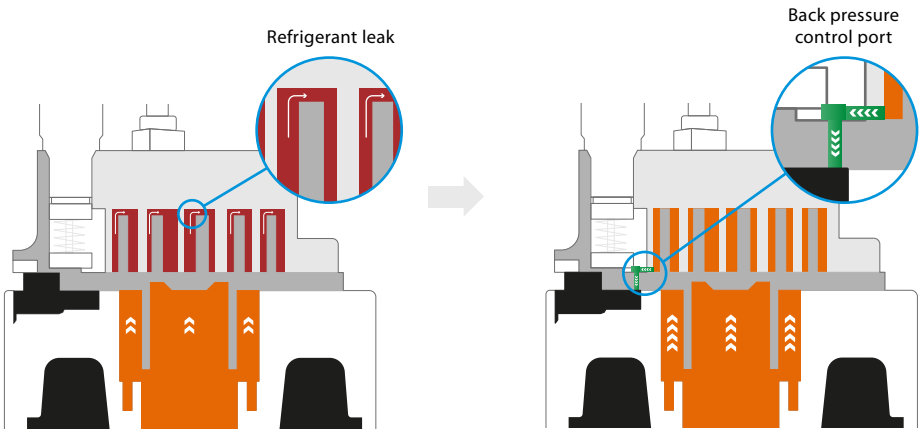
The capacity is controlled by the inverter compressor and variation of the evaporating (Te) and condensing (Tc) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

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



Inverter scroll compressor with back pressure control

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



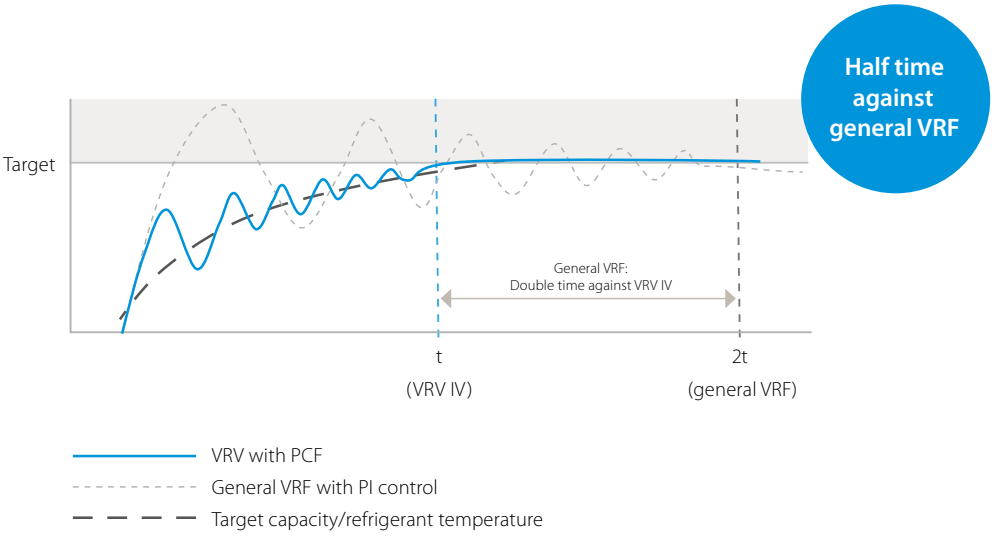
During low load, weak pressure is applied resulting in refrigerant leakage.

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

Predictive Control Function (PCF)

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

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



DC fan motor

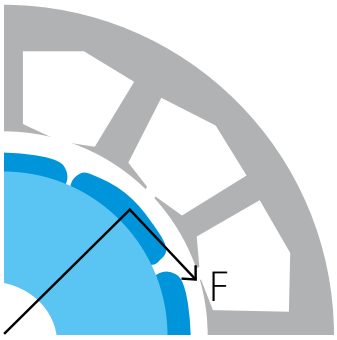
Outer rotor DC motor for higher efficiency

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

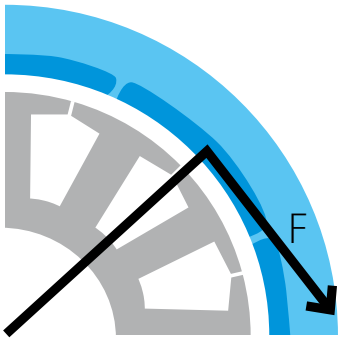
Sine wave DC inverter

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

Conventional motor with inner rotor



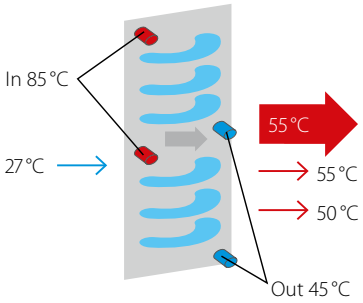
Daikin outer rotor



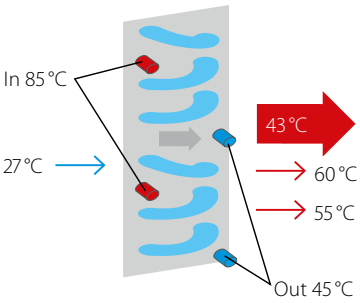
E-Pass heat exchanger

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

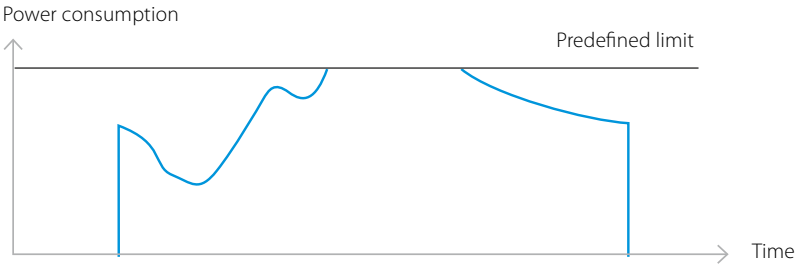


e-Pass heat exchanger



I-demand function

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



Top reliability

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

Duty Cycling extends operation life

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

Back-up function

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

Single outdoor unit with multiple compressors

Multi outdoor unit system

Auto-cleaning filters

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

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

Refrigerant-cooled PCB

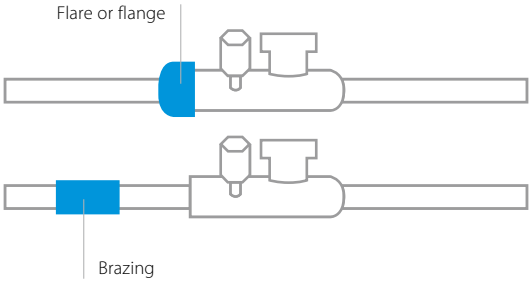
› Reliable cooling because it is not influenced by ambient air temperature
› Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%

Sequential start

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

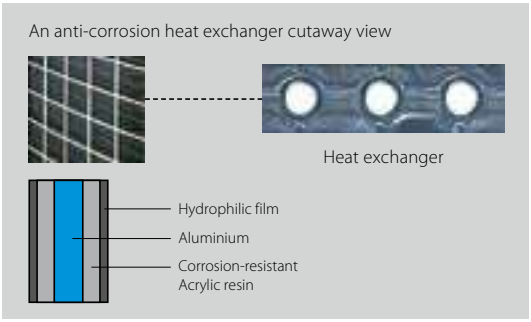
Only brazed connections

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



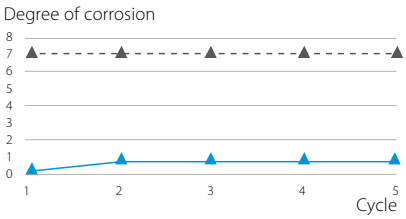
Anti corrosion treatment

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.



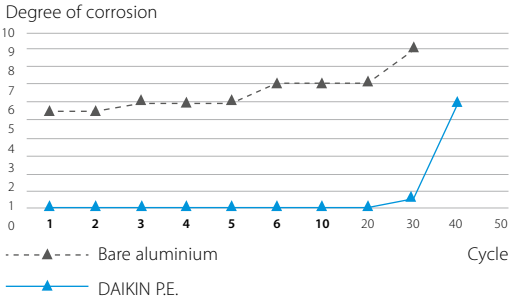
Performed corrosion resistant tests:

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



Kesternich test (SO2)

› Contents of 1 cycle (48 hours) according to DIN50018 (0.21)
› Testing period: 40 cycles



Comfort guaranteed
at all times

Continuous heating during defrost mode

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

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

How does it work?

UNIQUE

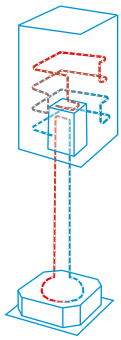
Heat accumulating element

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

The outdoor unit coil is defrosted …

… with the energy stored in the heat accumulating element …

… so a comfortable temperature is maintained indoors.



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

Alternate defrost

On all our multi unit systems only one 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

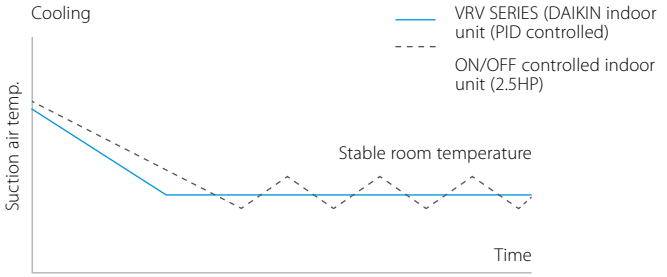
Available on: REYA10-28A, REYQ10-54U, RYYQ16-54U, RXYQQ16-42U and RQCEQ280-848P3

Smart Control brings comfort

Stable room temperature

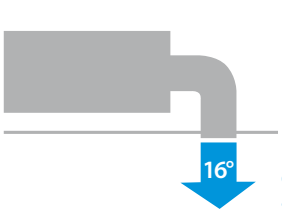
An electronic expansion valve continuously adjusts the refrigerant volume in response to load variations of the indoor units. The VRV system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations typical of conventional ON/OFF control systems.

Note: the graph shows the data, measured in a test room assuming actual heating load. The thermostat can control stable room temperature at ± 0.5°C from set point.



No more cold draughts

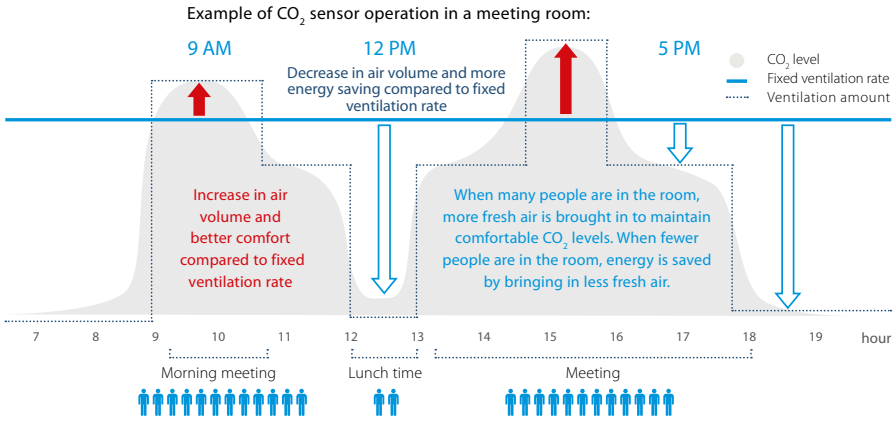
Automatic or manual adjustment of refrigerant temperature leads to higher outblow temperatures which avoids cold draughts coming from the indoor unit.



Constant and high air discharge temperature

Ensure optimal IAQ using CO_2 sensors

Fresh air is needed to create an enjoyable environment, but ventilating constantly leads to energy waste. Therefore an optional CO_2 sensor regulates the ventilation system to provide the required fresh air to the room, avoiding over-ventilation and saving energy.



Low operation sound level

Whisper quiet indoor units

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

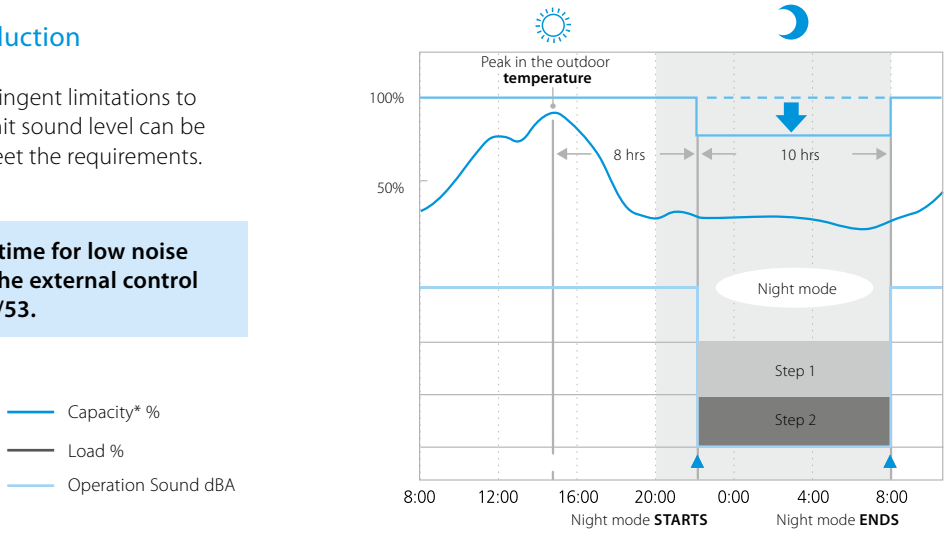
Connectable to RYYQ-U, RXYQ-U, RXYSCQ-TV1, RXYSQ-TV9/TY9, RXYLQ-T, RWEYQ-T9

Connectable to all VRV heat pumps

Outdoor unit sound reduction

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

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



Example for VRV IV heat pump, factory setting.

Sound enclosure for VRV5

EKLN140A

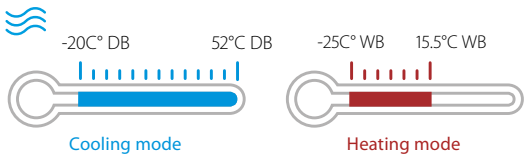
- Sound reduction up to -10 dB(A) on Sound Power values
- Dedicated Daikin option for VRV 5 RXYSA
- Fully optimised and tested in Daikin Factory for guaranteed performance
- Very low capacity and pressure drop thanks to separated air intake and discharge
- Fast and easy installation & servicing

Great design flexibility

Wide operation range

Air cooled

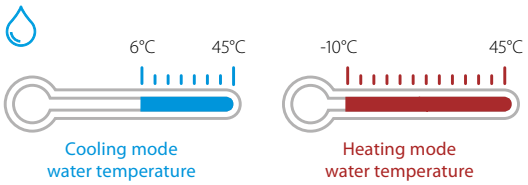
The VRV system can be installed practically anywhere. VRV air cooled outdoor units can cool between -20°C BD and +52°C DB outdoor ambient and can be used as monovalent heating systems between -25°C WB and +15.5°C WB.



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

Water cooled

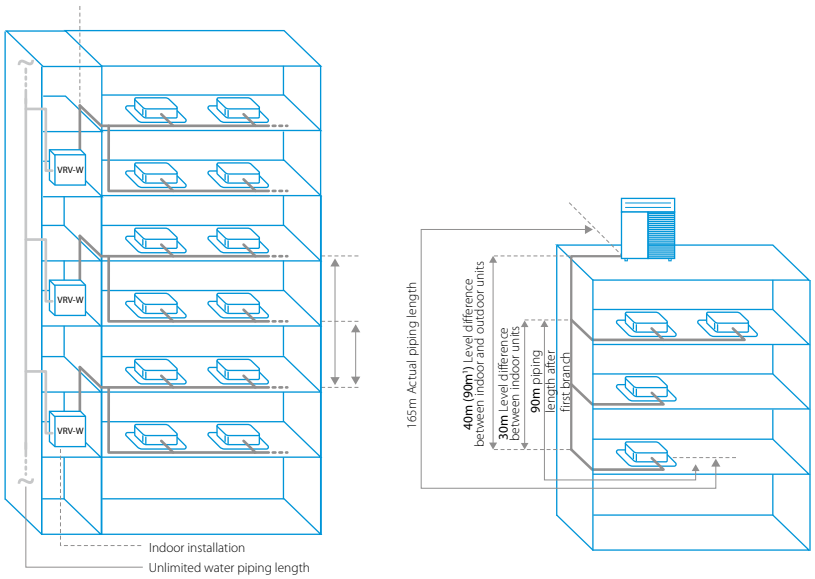
Standard water cooled outdoor units operation between 10°C and 45°C for both heating and cooling. In geothermal mode, the operation range is extended to -10°C* during heating and 6°C during cooling. These units are not influenced by external conditions and function well in extreme climates.



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

Flexible piping design

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



Example

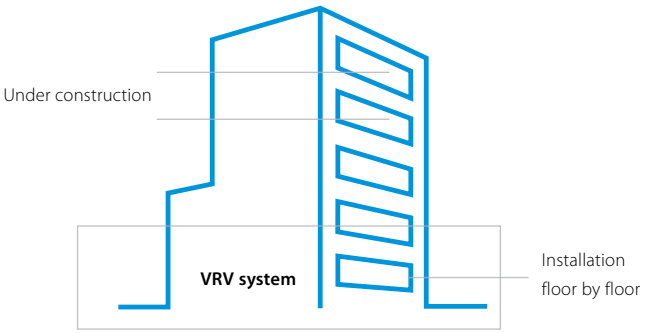
	Air cooled	Water cooled
Total piping length	1,000 m	500 m
Longest length actual (Equivalent)	165 m (190 m)	165 m (190 m)
Longest length after first branch	90 m[1]	40 m (90 m[1])
Level difference between indoor and outdoor units	90 m[1]	50 m (40 m[2])
Level difference between indoor units	30 m	30 m

[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. It also enables 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.

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. It is completely invisible.

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

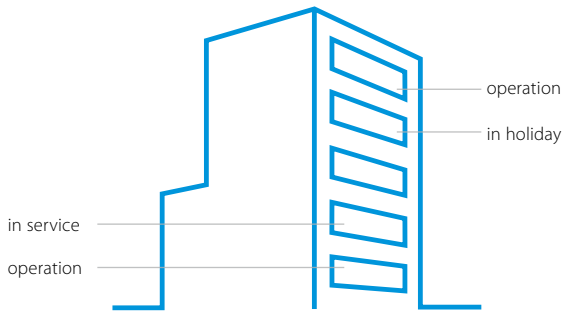
Multiple tenants, one outdoor unit

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

Two solutions according to the needs:

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

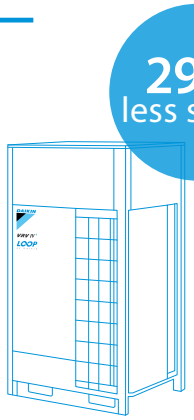


Compact and light

No structural reinforcement necessary

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

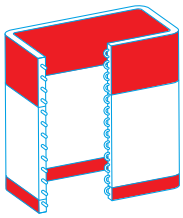
Up to 29% less space required compared to traditional water-based systems, offering more lettable space.



maximum
378 kg
for a 20HP unit

4-sided, 3-row heat exchanger

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

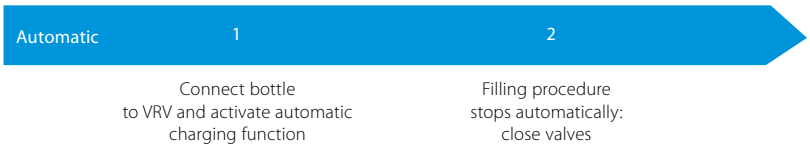


surface up to
235 m^2

Fast installation and commissioning

Easy servicing

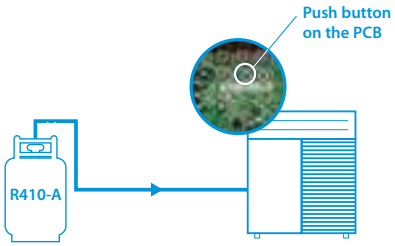
Automatic charging & testing



Connect bottle to VRV and activate automatic charging function

Filling procedure stops automatically: close valves

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



If the temperature drops below 20°C* manual charging is necessary.
* 10°C for heat pump for cold regions
* Available on REYQ-U, RYYQ-U, RXYQ-U, RQYQ-P, RXYQQ-U, RQCEQ-P3

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

Easy compliance to F-gas regulation

No leak check requirement

For the majority of VRV 5 S-series no leak check is needed as the total CO_2 eq. of the system is below 5 tonnes (total charge up to 7.4 kgs).

Remote refrigerant containment check

For systems with a total CO_2 eq. above 5 tonnes the refrigerant containment check can be done remotely via the intelligent Touch Manager.

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

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

Check the report once the check has been done.

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

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

The refrigerant volume of the complete system is calculated based on the following data:
- Outdoor temperature
- Reference system temperatures
- Reference system pressures
- Refrigerant density
- Types and number of indoor units

7-segment display

for quick and accurate error diagnosis

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

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

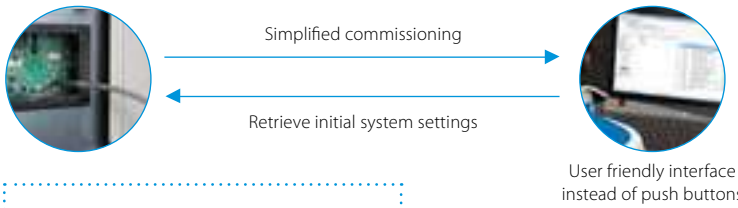
Compact design

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

VRV configurator

Software for simplified commissioning, configuration and customisation

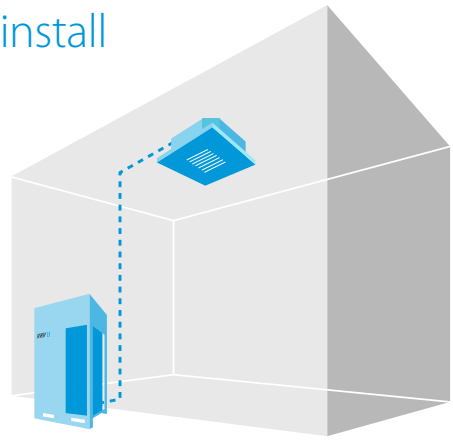
› Graphical interface
› Manage systems over multiple sites in exactly the same way
› Retrieve initial settings



User friendly interface instead of push buttons

Quick and easy to install

› All-in-one box solution without any requirement for field supplied equipment (e.g. gauges, pumps and valves)



Daikin unified REFNET piping

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

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

REFNET joint

REFNET header

Easy wiring

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

Cross wiring check

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

Auto address setting function

Wiring can be done without the need to manually set each address.

* auto address setting fuction is not available for centralized operation

VRV 5

R-32 BLUEVOLUTION

Continuing our path to lower CO_2 equivalent solutions

VRV 5 S-series

VRV 5 Heat Recovery

VRV 5 Heat Pump

Supporting the decarbonisation of commercial buildings

Market-leading seasonal efficiency makes VRV5 more sustainable over its entire lifecycle, reducing the indirect CO_2 eq. impact

Specifically built for lower GWP R-32 refrigerant, greatly reducing the potential direct CO_2 impact by 71% compared to R-410A systems

The perfect partner for BREEAM, LEED and other green building schemes

Ultra-flexible climate control

Known R-410A piping flexibility to tackle any building

Widest range of dedicated R-32 indoor units on the market

Integrates HRV ventilation units

Connectable to all known Daikin smart controls, including Onecta app

Five low sound steps

High ESP fans allowing concealed installation

VRV 5 outdoor unit overview

Capacity class (kW)

Model		Product name		4	5	6	8	10	12	14	16	18	20	22	24	26	28	VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	HRV units EKVDX	AHU connection	Air curtains	Remarks
Cooling Capacity							22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.4	73.5	78.5								
Heating Capacity							25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0	82.5	87.5								
Air-cooled heat recovery	NEW & UNIQUE VRV 5 heat recovery › Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 › Top sustainability over the entire lifecycle › 'Free' heating through heat recovery › Tackle small room applications thanks to Shîrudo Technology › The perfect personal comfort thanks to simultaneous cooling and heating	REYA-A 					●	●	●	●	●	●	●	●	●	●	●	○			○	○	NEW ○	NEW ○	
Air – cooled heat pump	UNIQUE VRV 5 S-series › Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 › Top sustainability over the entire lifecycle › Unique low -height single fan range › Tackle small room applications thanks to Shîrudo technology	RXYSA-AV1/AY1 	1~	●	●	●												○			○	○	NEW ○	NEW ○	› Standard total system connection ratio limit: 50 ~ 130%
			3~	●	●	●																			

● Single unit, ● Multi combination

Sound enclosure for VRV5 S-series

-10dB(A)!

- ☑ Specially designed for VRV 5
- ☑ Fully optimised and tested in Daikin Factory
- ☑ Outdoor unit sound reduction up to -10 dB(A) on Sound Power values
- ☑ Very low capacity and pressure drop
- ☑ Fast and easy installation & servicing

Branch selector (BS box) overview

Capacity class

Model		Product name		4	6	8	10	12
Multi port BS box	› Unique range of Branch Selector boxes integrating Shîrudo Technology	BS-A14AV1B 		●	●	●	●	●

SHÎRUDO TECHNOLOGY

Shîrudo Technology truly sets VRV 5 apart

- Complete peace of mind as Daikin provides all required tools to ensure compliance to the IEC product standard
- Factory-integrated refrigerant control measures make the VRV 5 quick and flexible to design without the need for complex and time-consuming calculations
- For stress-free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration

VRV 5

Arteparc office complex

Daikin VRV heat pumps contribute to low carbon footprint and are awarded with the HQE excellent label

HQE
THE WAY TO PROGRESS

The new Arteparc commercial complex situated in the Inovallee tech park in Meylan, Grenoble demonstrates how developers and equipment manufacturers are working together to deliver new low-carbon buildings that align with the highest standards of sustainable development.

This large new commercial complex comprises over 25,000m^2 of floor space, spread over six buildings.

The first three have now been completed using Daikin's low carbon VRV heat pumps. The project is distinguished by its high-quality design and construction, built to achieve BBC Effinergie E2C-1 certification and comply with the French RE2020 regulations, which are aimed at reducing both energy consumption and the lifetime carbon impact of new buildings.

Daikin's VRV5 solution was selected by ARTEA to provide comfortable climate control with a low carbon footprint to assist in achieving the HQE excellent certification.

The collaboration between the ARTEA Group, the Ingégroup design office, installer Climacool and Daikin technical management, was essential to the successful outcome of this project. Close cooperation ensured that system performance was optimised to meet the high standards of the ARTEA Group, as well as the building requirements and user experience. The system will be monitored in order to further optimise the energy efficiency of the VRV solution.

Hotel St. Annen

Sustainable retrofit

- Retrofit in just 3.5 weeks
- Individual room heating or cooling
- VRV 5's compact size and low noise operation minimise visibility and disturbance in the densely populated residential neighbourhood
- Intuitive touch control for guests with central monitoring for staff to optimise energy efficiency

"The Daikin system completely met our expectations for advanced energy efficiency and quiet technology. In addition, the system allowed individual air-conditioning for the guest bedrooms."

MARCUS VAN RIESEN, HOTEL MANAGER

University of Lincoln

Double first in decarbonisation as university graduates to VRV5 technology

It's a first for the University of Lincoln – and Daikin – as R32-based VRV5 heat recovery air conditioning makes its UK debut at an administrative and services building in the student village.

Open plan office areas are served by Roundflow cassettes, smaller offices and meeting rooms have either fully flat cassettes or wall mounted units, indivudally controlled by Daikin white Madoka wired controllers.

The outdoor installation consists of an 8hp primary unit and a 5hp secondary unit. This arrangement makes for more economical operating costs as the secondary unit runs only at times of peak demand for cooling or heating.

Alongside the VRV we also fitted some heat recovery VAM ventilation units, so we have supply and extract air in there as well to make it an all-round better system.

The heat recovery aspect of the VRV and VAM systems improves overall performance and reduces operating costs by using outgoing waste energy to temper incoming refrigerant and airflows.

Airco's Rob Murray says: "We had earlier been asked to survey the building for replacement of the 15-year-old R410A system. We were asked about the possibility of an R32 system – and we said: 'Daikin can do it'."

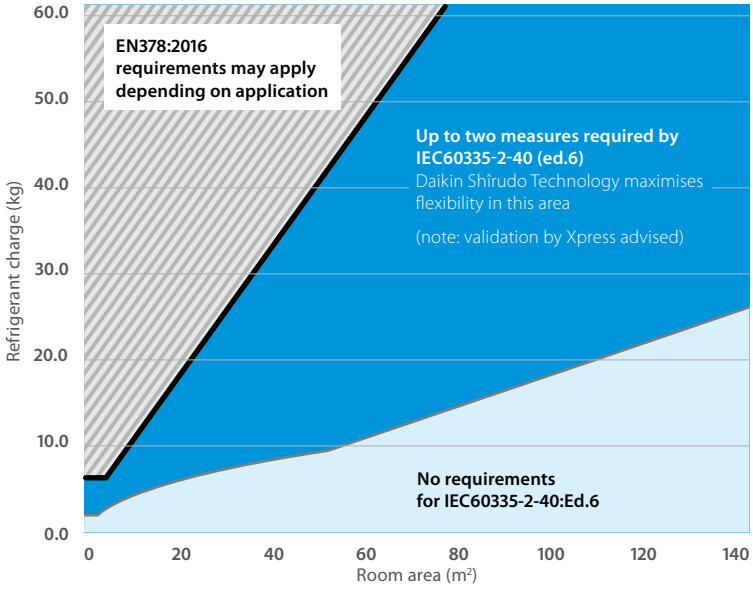
More case studies at: https://www.daikin.co.uk/en_gb/about/case-studies.html

Did you know …

different standards regarding safety exist?

Refrigerants can be classified according to two safety groups:
› Flammability (1, 2L, 2, 3): covered by the specific heat pump standard **IEC60335-2-40 (Ed. 6)** as it prevails over EN378:2016
› Toxicity (A or B): covered by the generic standard on refrigerants **EN378:2016.**

Shîrudo Technology focuses on offering maximum flexibility within the IEC60335-2-40 (Ed.6) requirements as limitations for flammability of A2L refrigerants are stricter than the ones for toxicity.



Example for VRV 5 S-series

Integrated sensors to detect refrigerant leak.
Leak detection activates:

1 Audible and visual alarm

› Integrated in the Madoka wired remote controller.
› In case an additional supervisor alarm is needed it can be easily integrated via:
  › The Madoka controller
  › An output from the VRV system

2 Refrigerant recovery and shut-off valves

› Refrigerant is automatically recovered to the outdoor unit.
› After recovery, shut-off valves close and the refrigerant is safely contained.

Peace of mind

SHÎRUDO TECHNOLOGY

With Shîrudo Technology, Daikin ensures compliance to the product standard IEC60335-2-40 (Ed. 6) for indoor units. With factory-integrated refrigerant control measures, these systems are also fast and flexible to design.

There is **no need for complex and time-consuming calculations**, even for small room applications. And BSSV boxes come with a ventilated enclosure for quick and simple integration of any potential additional measures – making installation in demanding spaces easier than ever.

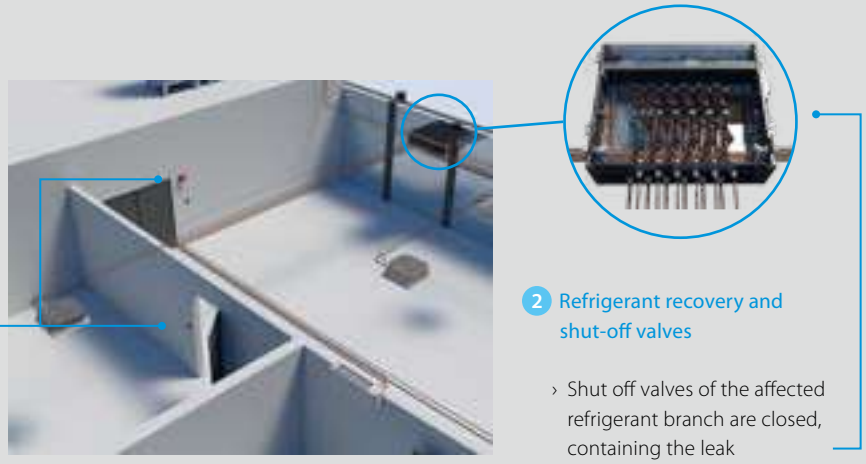
For stress-free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration.

Refrigerant control measures factory-integrated

Shîrudo Technology includes two factory measures and sensors built into a VRV 5 system.

Integrated sensors to detect refrigerant leak.
Leak detection activates:

Example for VRV 5 Heat Recovery



1 Audible and visual alarm

› Integrated in the Madoka wired remote controller
› In case an additional supervisor alarm is needed it can be easily integrated

2 Refrigerant recovery and shut-off valves

› Shut off valves of the affected refrigerant branch are closed, containing the leak
› The rest of the system remains in operation

Compliance taken care of

› No study or calculations needed on where and how to install outdoor or indoor units.
› No need for studies to decide if and what safety measures are required.
› Third party CB certified by a notified body (SGS CEBEC).

Automatic, real time leak detection and refrigerant containment controls

› Fully compliant to product standard (IEC60335-2-40 (Ed.6)), reducing the risk of direct CO_2 eq. impact from a refrigerant leak.
› Real time leak detection sensors, triggering refrigerant containment measures in the unlikely event of a leak.
› No leak check requirement for majority of VRV 5 S-series installations (up to 7.4 kg of refrigerant charge) and reduced intervals of leak check for bigger installations.

Check out the Shîrudo Technology video!

(1) Refer to Xpress selection software to ensure compliance to specific product standard.
Field supplied duct and fan may be be required to install the BS box in very small spaces.

Purpose-built
to support the
decarbonisation of
commercial buildings

VRV 5
BLUEVOLUTION

VRV 5 Heat Recovery

Greatly reducing the CO_2 footprint of buildings

› Lower GWP R-32 refrigerant
› Market-leading, real life seasonal efficiency
› Highly efficient 3-pipe heat recovery

Maximum design flexibility

› Installation in rooms down to 10 m² without any additional measures thanks to **Shîrudo technology**
› Easy to select thanks to VRV Xpress floorplan support
› Completely redesigned BSSV boxes for faster installation and easier servicing

Market-leading portfolio

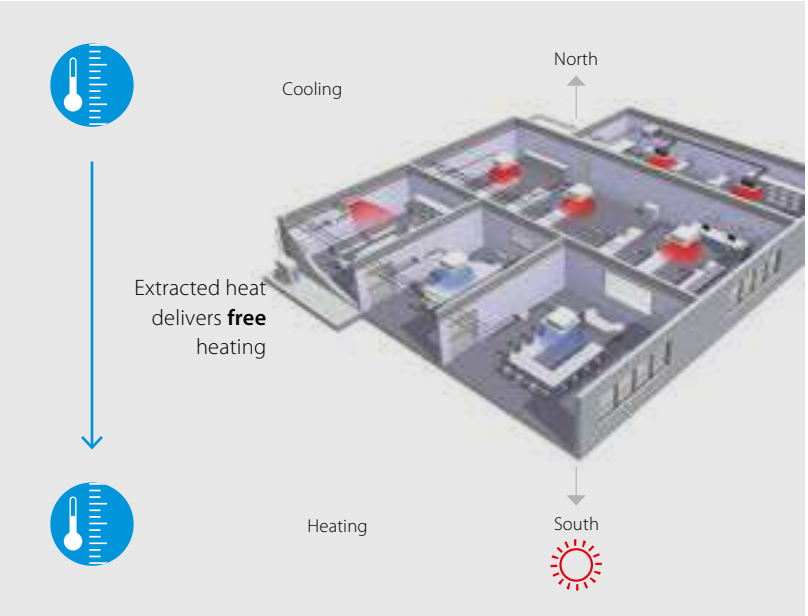
› Widest range of dedicated R-32 VRV outdoor and indoor units in the market!
› Control IAQ with integration of ventilation units

Advantages

of 3-pipe technology

"Free" heat available

An integrated heat recovery system reuses heat from offices and server rooms to warm other areas, minimizing heat waste



Maximum comfort

A VRV heat recovery system allows simultaneous cooling and heating.

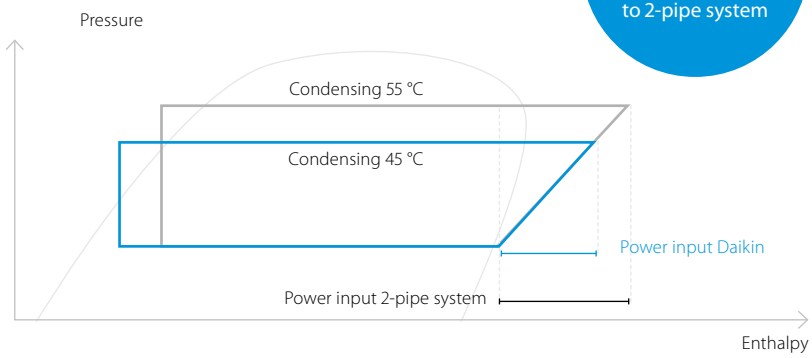
› For hotel guests, this means they can freely choose between cooling or heating to create the perfect environment.
› For offices, it means a perfect working indoor climate for both north and south-facing offices.

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.

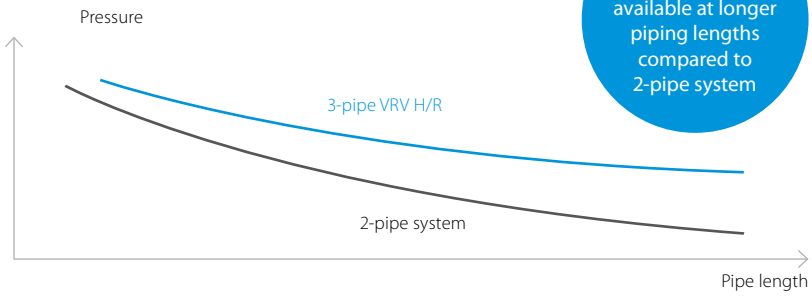
5 to 15 % more efficient in heat recovery mode compared to 2-pipe system



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 larger pressure drop

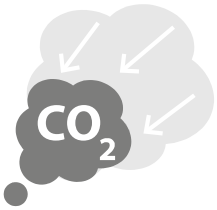
Up to 5 % more cooling capacity available at longer piping lengths compared to 2-pipe system



VRV 5 Heat Recovery

Purpose-built to support the decarbonisation of commercial buildings

- Reduced CO_2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Single component refrigerant, easy to re-use and recycle
- Greatest sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- "Free" heating through efficient 3-pipe heat recovery, transferring heat from areas requiring cooling to areas requiring heating
- Tackle small room applications without any additional measures, thanks to Shîrudo Technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- Simultaneous cooling and heating for the perfect personal comfort of guests/tenants
- Like for like R-410A installation flexibility with piping lengths up to 165 meters and a total length of 1,000 meters
- Sound pressure down to 40 dB(A) thanks to 5 low sound steps
- ESP up to 78 Pa to allow ducting
- Wide operation range of up to +46°C in cooling and down to -20°C in heating
- Incorporates VRV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB



Lower CO_2 equivalents

5 low sound steps

Outdoor Units			5hp (Multi Only) REMA5A	8 hp Single REYA8A	10 hp Single REYA10A	12 hp Single REYA12A	14 hp Single REYA14A	16 hp Single REYA16A	18 hp Single REYA18A	20 hp Single REYA20A
Capacity	Nominal Cooling	kW	14.0	22.4	28.0	33.5	40.0	45.0	50.4	55.9
	Nominal Heating	kW	16.0	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Seasonal Efficiency	Cooling	$\eta_{s,c}$ %	-	290.8	282.6	285.3	306.1	281.0	280.6	262.2
	Heating	$\eta_{s,h}$ %	-	161.5	170.2	176.4	168.3	167.5	172.5	162.7
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	213				296		319	
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Max Fuse Amp (MFA)	amps	20	20	25	32	32	40	40	50
	Nominal Running Current - Cooling	amps	5.6	10.5	13.0	15.6	18.5	21.0	27.8	32.8
Refrigerant Circuit	Refrigerant Type		R32							
	Refrigerant Charge	kg	9.0	9.0	9.0	9.0	10.6	10.6	10.6	10.6
Sound Pressure	Cooling	dBA	56.3	56.3	58.0	60.8	58.1	61.4	63.0	67.0
	Heating	dBA	58.1	58.1	58.8	61.9	61.3	64.5	64.0	68.0
Sound Power	Cooling	dBA	78.3	78.3	78.8	82.5	78.7	83.7	83.4	87.9
	Heating	dBA	79.4	79.4	80.7	83.3	82.9	86.3	85.1	89.6
Piping Limits	Maximum Total Length	m	1000							
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Discharge	inch (mm)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)
	Gas	inch (mm)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	1 1/8 (28.6)
Operation Range (Cooling)	Min / Max	°CDB	-5 / 46							
Operation Range (Heating)	Min / Max	°CWB	-20 / 15.5							

Completely redesigned BSSV boxes for faster installation and easier servicing

Widest R-32 VRV range in the market

Outdoor Units			10 hp Multi		13 hp Multi		16 hp Multi		18 hp Multi		20 hp Multi	
			REMA5A	REMA5A	REMA5A	REYA8A	REYA8A	REYA8A	REYA8A	REYA10A	REYA8A	REYA12A
Capacity	Nominal Cooling	kW	28.0		36.4		44.8		50.4		55.9	
	Nominal Heating	kW	31.5		41.0		50.0		56.5		62.5	
Seasonal Efficiency	Cooling	$\eta_{s,c}$ %	301.9		296.5		293.0		287.5		287.6	
	Heating	$\eta_{s,h}$ %	160.6		161.5		170.9		170.5		172.2	
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765		1685 x 930 x 765		1685 x 930 x 765		1685 x 930 x 765		1685 x 930 x 765	
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415									
	Max Fuse Amp (MFA)	amps	40		40		40		50		50	
	Nominal Running Current - Cooling	amps	11.2		16		20.9		23.4		26.1	
Refrigerant Circuit	Refrigerant Type		R32									
	Refrigerant Charge	kg	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Sound Pressure	Cooling	dBA	59.3		59.3		59.3		60.2		62.1	
	Heating	dBA	61.1		61.1		61.1		61.5		63.4	
Sound Power	Cooling	dBA	81.3		81.3		81.3		81.6		83.9	
	Heating	dBA	82.4		82.4		82.4		83.1		84.8	
Piping Limits	Maximum Length	m	1000									
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)
	Discharge	inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)
Operation Range (Cooling)	Min / Max	°CDB	-5 / 46									
Operation Range (Heating)	Min / Max	°CWB	-20 / 15.5									

Outdoor Units			22 hp Multi		24 hp Multi		26 hp Multi		28 hp Multi	
			REYA10A	REYA12A	REYA8A	REYA16A	REYA12A	REYA14A	REYA12A	REYA16A
Capacity	Nominal Cooling	kW	61.5		67.4		73.5		78.5	
	Nominal Heating	kW	69.0		75.0		82.5		87.5	
Seasonal Efficiency	Cooling	$\eta_{s,c}$ %	283.6		283.4		296.2		282.8	
	Heating	$\eta_{s,h}$ %	272.1		277.3		286.4		275.6	
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 1240 x 765
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Max Fuse Amp (MFA)	amps	63		63		63		63	
	Nominal Running Current - Cooling	amps	28.6		31.5		34.1		36.7	
Refrigerant Circuit	Refrigerant Type		R32							
	Refrigerant Charge	kg	9.0	9.0	9.0	10.6	9.0	10.6	9.0	10.6
Sound Pressure	Cooling	dBA	62.6		62.6		62.7		64.1	
	Heating	dBA	63.6		65.4		64.6		66.4	
Sound Power	Cooling	dBA	84.0		84.8		84.0		86.2	
	Heating	dBA	85.2		87.1		86.1		88.1	
Piping Limits	Maximum Length	m	1000							
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	1/2 (12.7)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Discharge	inch (mm)	5/8 (15.9)	3/4 (19.1)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)
	Gas	inch (mm)	3/4 (19.1)	7/8 (22.2)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)
Operation Range (Cooling)	Min / Max	°CDB	-5 / 46							
Operation Range (Heating)	Min / Max	°CWB	-20 / 15.5							

NEW BS-A14AV1B

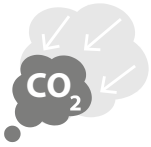
Multi branch selector (BSSV) for VRV 5 Heat Recovery

Specifically developed for lower GWP R-32

› **Reduced CO_2 equivalent** thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge

› Unique range of multi BS boxes allowing **efficient 3-pipe** heat recovery

› No limitation on room size, thanks to **Shîrudo Technology** (1)
The integrated shut-off valves in the BSSV box ensure that in case of a refrigerant leak only the specific branch is closed off.



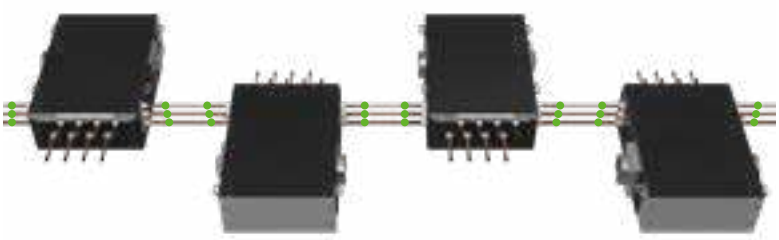
Reduced CO_2 equivalent

Flexibility to take care of every room

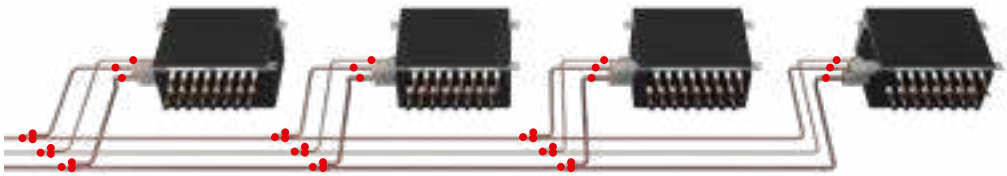
Completely redesigned for faster installation and easier servicing

› Faster installation thanks to **Refrigerant Flow Through** reducing the number of brazing points and joint kits

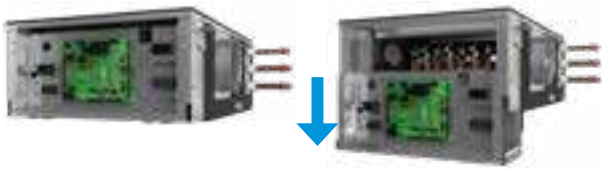
VRV 5: only 24 brazings point and no joint kits



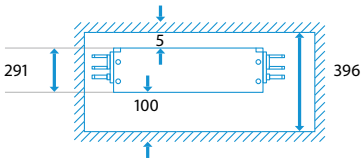
VRV 5: 39 brazing points and 3 joint kits



› Easy servicing in false ceillings thanks to **sliding down PCB**



› Limited ceiling void required as the box can be installed at just 5mm from the ceiling



(1) Refer to Xpress selection software to ensure compliance to specific product standard. Field supplied duct and fan might be required to install the BS box in very small spaces

- Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- **NEW** No limitation on room size, thanks to Shîrudo Technology (1)
- **NEW** Faster installation thanks to Refrigerant Flow Through reducing the number of brazing points and joint kits
- **NEW** Easy servicing in false ceilings thanks to sliding down PCB
- **NEW** Limited ceiling void required as the box can be installed at just 5mm from the ceiling
- **NEW** Quick on-site settings, indication of service parameters and easy read out of errors thanks to 7 segment display
- 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
- Faster installation thanks to open port connection
- Allows multi tenant applications
- Connectable to REYA-A heat recovery units

BS6A14AV1B

			BS4A14AV1B	BS6A14AV1B	BS8A14AV1B	BS10A14AV1B	BS12A14AV1B
Connectivity	Maximum number of connectable indoor units (per BS box)		20	30	40	50	60
	Maximum number of connectable indoor units per branch		5	5	5	5	5
	Number of branches		4	6	8	10	12
	Maximum capacity index of connectable indoor units (per BS box)		400	600	750		
	Maximum capacity index of connectable indoor units per branch		140 per port				
			250 if 2 ports are combined				
Piping restrictions	Maximum piping length between BSSV box and indoor unit	m	40				
Flowthrough of header pipes	Total amount of ports allowed in flowthrough		16				
	Maximum allowed amount of BSSV box in flowthrough		4 (4 * 4 port BSSV box = 16 ports)				
	Maximum capacity index of indoor units connected to all BSSV box in flowthrough combined		750				
General	Refrigerant type		R32				
	Unit weight	kg	40	56	65	83	89
	Power supply	V	220-240 V / 50 Hz / 1 Phase				
	Installation direction		Horizontal (0° - max 1° toward drain opening)				
	Drain piping		VP20 (ID, 20mm/OD, 26mm)				
	Unit casing		Galvanized steel plate				
	Max Fuse Amps (MFA)	amps	6	6	6	6	6
	Height	mm	291	291	291	291	291
	Width (casing only)	mm	600	1000	1000	1400	1400
	Width (casing + header piping)	mm	870	1270	1270	1670	1670
	Depth (casing only)	mm	845	845	845	845	845
	Depth (casing + branch piping)	mm	1039	1039	1039	1039	1039
	Piping connection type		Braze				
	Main pipe size - Suction gas	inches (mm)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)
	Main pipe size - HP/LP gas	inches (mm)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)
	Main pipe size - liquid	inches (mm)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
	Branch pipe size - gas	inches (mm)	3/8 (9.5) / 1/2 (12.7) / 5/8 (15.9)				
	Branch pipe size - liquid	inches (mm)	1/4 (6.4) / 3/8 (9.5)				

BSSV boxes with Prefitted External Valves*	**UK.BS4A14AV/FSV**	**UK.BS6A14AV/FSV**	**UK.BS8A14AV/FSV**	**UK.BS10A14AV/FSV**	**UK.BS12A14AV/FSV**

* Not subject to standard trade discount

Accessories:

Accessory Ref	Description
EKBSDCK	Optional duct adapter for series connection

VRV 5 S-series heat pump

Lower CO_2 equivalent and market-leading flexibility

Control systems

Indoor units
VRV type indoor units

Ventilation
Heat Reclaim ventilation
ALB/VAM/VKM

RXYSA-AV1_AY1

Life is more rewarding with the new VRV 5.

Our new all-round performer covers all of your mini VRV applications in Daikin's most sustainable solution.

› **Maximum flexibility** allowing installation in rooms down to 10 m^2 thanks to Shîrudo technology

› **Top sustainability** over the entire lifecycle thanks to low GWP R-32 refrigerant and market-leading real life seasonal efficiency

› **Ergonomic serviceability** and handling, thanks to wide access area to easily reach components within low-profile single fan casing

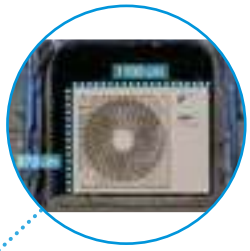
› **Best-in-class design versatility** with five sound pressure levels down to 39 dB(A) and automatic ESP setting up to 45 Pa allowing ductwork

› **Geared for comfort** with intuitive online and voice controls plus a new 10 class indoor unit for small rooms

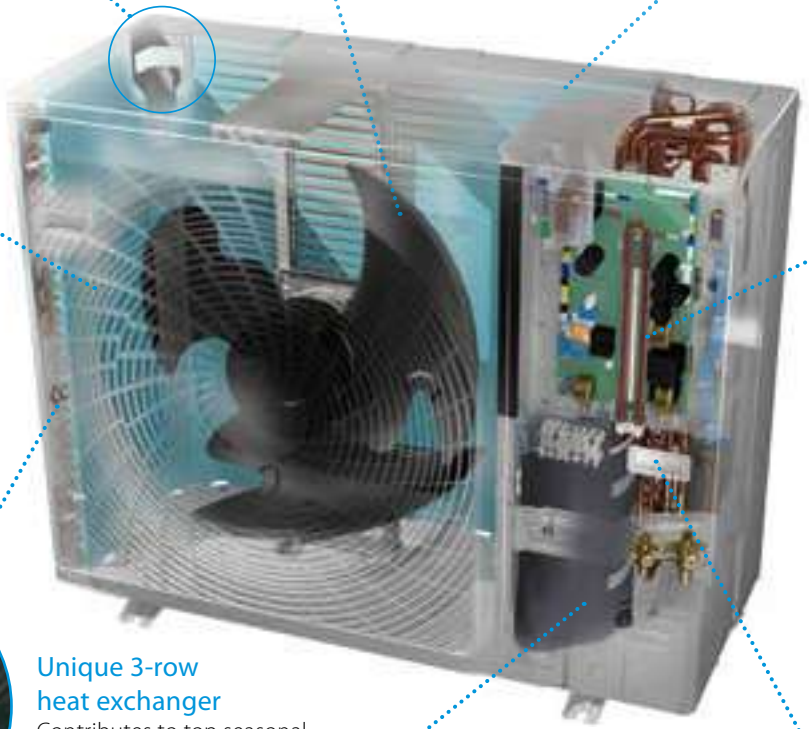
Next generation VRV

New asymmetric fan design
› Two high ESP settings
› Low sound levels

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



New casing design with 4 handles for easy carrying

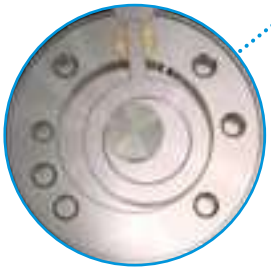


Specially designed grille
› Low pressure drop
› No risk for accidental reach of the fan

Refrigerant cooled PCB
With integrated:
› cool/heat selector input
› 7-segment display for quicker and more precise error and setting reading

Unique 3-row heat exchanger
Contributes to top seasonal efficiency

New stop valves
› Repositioned to allow front or side connection
› Brazed for increased reliability



Unique Daikin swing compressor
› No abrasion possible
› No refrigerant leak possible
› High seasonal efficiencies

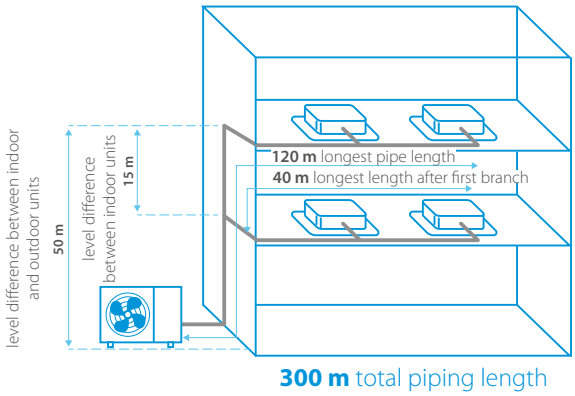
VRV 5 S-series

Lower CO_2 equivalent and market-leading flexibility

- Reduced CO_2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- Low-height single fan range
- Easy to transport thanks to lightweight and compact design
- Wide access area to easily reach all key components
- Tackle small room applications without any additional measures, thanks to Shîrudo technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency

RXYSA-AV1_AY1

Only 869mm high!



Reduced CO_2 equivalent

Flexibility to take care of every room

Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

Outdoor Units			RXYSA4AV1	RXYSA5AV1	RXYSA6AV1	RXYSA4AY1	RXYSA5AY1	RXYSA6AY1
Capacity	Nominal Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Max Heating (6°CWB)	kW	14.2	16.0	18	14.2	16.0	18
ηs,c	Seasonal Efficiency Cooling	%	324.50	306.10	301.00	312.50	294.80	289.90
ηs,h	Seasonal Efficiency Heating	%	200.50	185.70	183.60	193.10	178.80	176.80
Dimensions	Height x Width x Depth	mm	869 x 1100 x 460					
Weight		kg	102	102	102	102	102	102
Air Flow Rate		m3/sec	1.72	1.72	1.72	1.72	1.72	1.72
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230			3 / 50 / 380~415		
	Running Current	amps	16.2	20.3	22.8	5.4	6.8	7.6
	Starting Current	amps	4	4	4	4	4	4
	Fuse Rating	amps	32	32	32	16	16	16
Refrigerant Circuit	Refrigerant Type		R32					
Sound Pressure	Cooling (nominal)	dBA	49.0	51.0	51.0	49.0	51.0	51.0
	Heating (nominal)	dBA	50.0	52.0	52.0	50.0	52.0	52.0
Sound Power	Cooling (nominal)	dBA	67.0	68.1	69.0	67.0	68.1	69.0
	Heating (nominal)	dBA	57.0	59.0	60.0	57.0	59.0	60.0
Piping Limits	Total piping length	m	300	300	300	300	300	300
Piping Connections	Liquid	inch (mm)	3/8" (9.5)	3/8" (9.5)	3/8" (9.5)	3/8" (9.5)	3/8" (9.5)	3/8" (9.5)
	Gas	inch (mm)	5/8" (15.9)	5/8" (15.9)	5/8" (15.9)	5/8" (15.9)	5/8" (15.9)	5/8" (15.9)
Capacity Index Limit			130	162.5	182	130	162.5	182
Maximum Number of Connected Indoor Units			13	16	18	13	16	18

VRV indoor units

As one of the widest ranges on the market, our indoor units are currently available in 26 different stylish and elegant models in 116 different variants. All are designed to maximise comfort, minimise operating noise and simplify installation and servicing.

VRV 5
indoor units

Indoor unit overview 46
Benefit overview 47
Ceiling mounted cassette units 48
NEW UV Streamer kit 48
UNIQUE FXFA-A 51
UNIQUE FXZA-A 53
Concealed ceiling units 54
Auto cleaning filter for concealed ceiling units 54
FXDA-A 55
SLIMMEST IN CLASS FXSA-A 56
NEW FXMA-A 57
Wall mounted unit 58
FXAA-A 58
Ceiling suspended units 59
FXHA-A 59
UNIQUE FXUA-A 60

With new Madoka BRC1H52W/S/K!

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	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 maximise 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 maximise 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 or well-insulated rooms › Reduced energy consumption thanks to DC fan motor	FXDA-A	●	●	●	●	●	●	●	●								
	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	FXSA-A (UNIQUE FOR R-32)		●	●	●	●	●	●	●		●	●	●	●		
	NEW Concealed ceiling unit with high ESP	ESP up to 270 Pa, ideal for extra large sized spaces › Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment › Large capacity unit: up to 31.5 kW heating capacity	FXMA-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 upwards and downwards thanks to 5 different discharge angles	FXAA-A		●	●	●	●	●	●	●							
Ceiling suspended	NEW 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	FXHA-A					●		●	●			●				
	NEW & 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	FXUA-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	22.4	28.0
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	25.0	31.5

UV Streamer kit

Auto cleaning filter option

(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

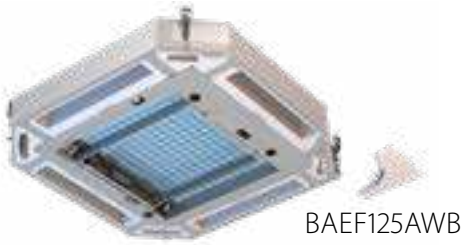
			Ceiling mounted cassette units		Concealed ceiling units			Wall mounted unit	Ceiling suspended units	
			FXFA-A	FXZA-A	FXDA-A	FXSA-A	NEW FXMA-A	FXAA-A	FXHA-A	FXUA-A
										
We care	Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.	●	●	●	●	●	●	●	●
	Fan only	The unit can be used as fan, blowing air without heating or cooling.	●	●	●	●	●	●	●	●
	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, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	○	○						NEW ○
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. Affter 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	UV Streamer kit	Purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygienic indoor environment	●							
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	● (2) (Optional high efficiency filter ePM10 60%)	● (2)	● (2)	● (2)	● (2) Optional pre filter and high efficiency filter available (200-250)	● (2)	● (2)	● (2)
Humidity control	Dry programme	Allows humidity levels to be reduced without variations in room temperature.	●	●	●	●	●	●	●	●
Air flow	Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains.	●	●						
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.	●	●				●	●	●
	Fan speed steps	Allows to select up to the given number of fan speed.	5 + auto	3 + auto	3	3 + auto	3 (50-125) 3 + auto (200-250)	3 + auto	3	3 + auto
	Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually to suit any new room configuration. Optional closure kits are available as well.	●	●						●
Remote control & timer	Onecta controller (BRP069C51)	Control your indoor climate from any location via smartphone or tablet.	○	○	○	○	○	○	○	○
	Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.	○	○	○	○	○	○	○	○
	Infrared remote control	Starts, stops and regulates the air conditioner from a distance.	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)
	Wired remote control	Starts, stops and regulates the air conditioner.	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)
	Centralised control	Starts, stops and regulates several air conditioners from one central point.	○	○	○	○	○	○	○	○
Other funtcions	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 hotel or office building.	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	

(1) Must be combined with Madoka wired remote controller.
(2) Pre filter
(3) BRC1H52W/S/K is a required option
(4) Only in combination with REYA outdoors

● standard, ○ optional

Pure air
because we care

Breathe healthy air with the round flow
UV Streamer kit



BAEF125AWB

90% of our time is spent indoors.
However indoor air is two to five times more polluted than outdoor air.

Indoor air pollution affects the health and well-being of the occupants.

Our UV streamer kit offers you the solution:

› It purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygenic indoor environment

› Thanks to large air flow rate of the Round flow cassette, clean air can be quickly delivered to every corner of your space

› Can be retrofitted into existing installations

› Can be used with BYCQ140E and BYCQ140EW decoration panels

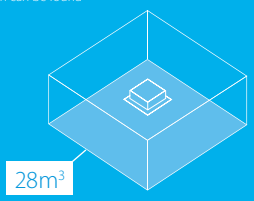
99.9%
of viruses removed in 30 minutes, thanks to Daikin's unique
Catch & Clean approach

Tested at Intertek

Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

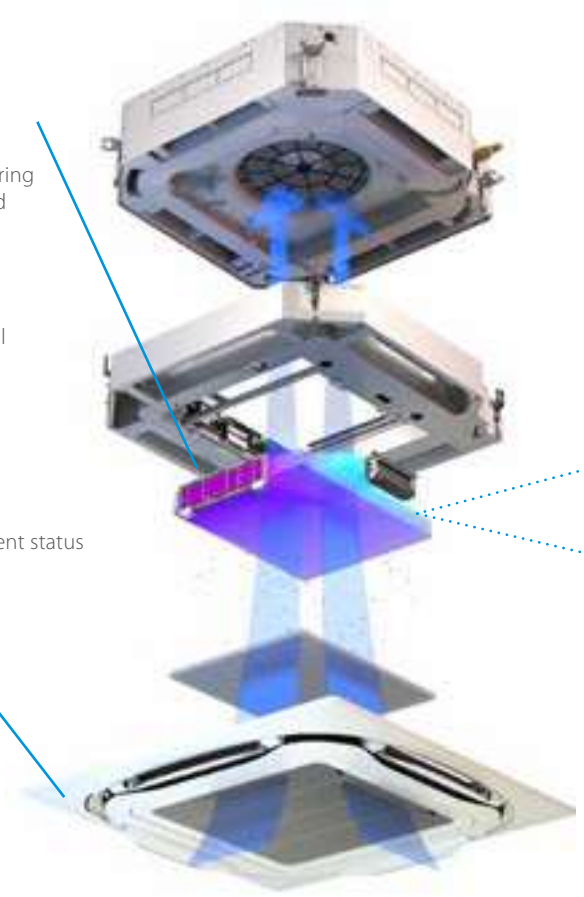
* Additional details regarding this function can be found in the unit technical manual.

Tested according to real life sized room



View full test report:

Daikin's unique Catch & Clean approach includes an ePM1 50% filter, UV-C light and Streamer technology



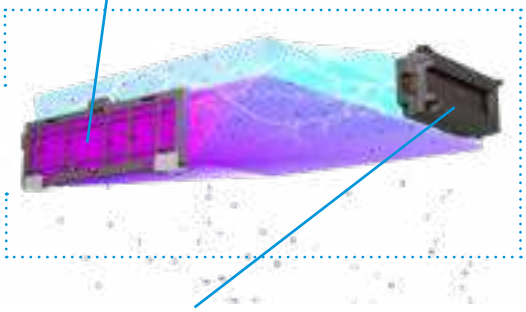
1 Effective capturing of airborne pollutants

- Highly efficient capturing particulate matter and pollutants thanks to the F7 filter (ISO classification under testing)
- Anti bacterial and viral coating

Indicator light
Indicates operation, malfunction or replacement status

2 Effective cleaning and decomposition of pollutants
Our unique combined UV-C light and Streamer technology ensures both surface and in-depth sanitising of the filter to ensure hygienic air.

UVC LED light with high output wavelength of 265nm which is the most effective for surface cleaning and inactivation of bacteria and viruses.



Streamer technology for deep sanitising of the filter and powerful decomposition of viruses and bacteria trapped inside the filter.

UV Streamer filter specifications

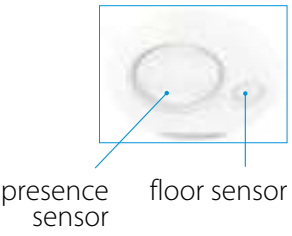
Treatment tools	Test Organisation	Classifications	Test Standard and Method	Report Number	Efficiency	Sample Quantity	Contacting Time (hours)	Test Virus suspension
UV Streamer Kit	Phi-X174 (non enveloped virus)	Virus	Non-standardised Test Method: Microbial Reduction Rate Test	102105182COL-001	99.9%		0.5	$8x10^9$ PFU
Ionpure IPI Filter	Staphylococcus aureus	Bacteria	GB 21551.2-2010	2021FM05648R01	99.98%	$1m^3$	24	
Ionpure IPI Filter	Escherichia coli	Bacteria	GB 21551.2-2010	2021FM05648R01	99.99%	$1m^3$	24	
Ionpure IPI Filter	Aspergillus niger	Fungus	JIS Z 2911:2018	2022FM07084R01	Anti-mildew grade 0 (1)	$1m^3$		
Ionpure IPI Filter	Penicillium pinophilum	Fungus	JIS Z 2911:2018	2022FM07084R01	Anti-mildew grade 0 (1)	$1m^3$		
Ionpure IPI Filter	Trichoderma viridé	Fungus	JIS Z 2911:2018	2022FM07084R01	Anti-mildew grade 0 (1)	$1m^3$		
Ionpure IPI Filter	Chaetomium globosum	Fungus	JIS Z 2911:2018	2022FM07084R01	Anti-mildew grade 0 (1)	$1m^3$		
Ionpure IPI Filter	Paecilomyces variotiiv	Mold	JIS Z 2911:2018	2022FM07084R01	Anti-mildew grade 0 (1)	$1m^3$		
Ionpure IPI Filter	Infectious bronchitis virus	Virus	ISO 18184:2014(E)	2020FM26047R01	99.99%	$1m^3$	2	
Ionpure IPI Filter	SARS-CoV-2	Virus	JIS L 1922	21KB-080395-2(1/5)	99.92%		8	$2.2x10^7$ PFU
Ionpure IPI Filter	H1N1	Virus	ISO 18184:2014(E)	2020FM2434R01	99.94%	$1m^3$	2	

(1) Anti mildew grade 0: no fungal growth was seen visually and with the microscope.

Complete indoor comfort, including pure air

The round flow cassette

› Maximum comfort thanks to **360° air discharge and intelligent sensors**



› **Widest ever choice in panels** to match any interior

Black auto cleaning panel | Black designer panel | Full white standard panel | White designer panel

› **Auto cleaning panel** keeps the filter free of dust for maximum efficiency

› **UV streamer kit**

NEW › Purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc. ensuring a healthy and hygienic indoor environment

› Highly efficient F7 filter (ISO classification under testing), UVC light and Streamer technology

› Can be **retrofitted** into existing installations

UV STREAMER

99.9%
of viruses removed in 30 minutes, thanks to Daikin's unique
Catch & Clean approach

Tested at Intertek

Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

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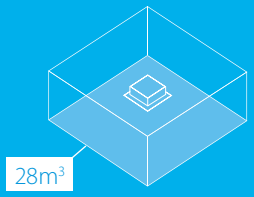
Tested according to real life sized room

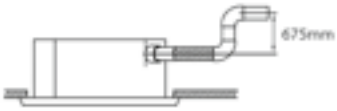


View full test report:

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Optimised design for R-32 refrigerant
- Optional automatic filter cleaning panel 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 panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- NEW UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Standard drain pump with 675mm lift increases flexibility and installation speed




White panel


White auto cleaning panel


Black panel


Black design panel

Indoor Units				FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A	FXFA80A	FXFA100A	FXFA125A
Capacity	UK Total Cooling		kW	1.50	2.00	2.50	3.10	3.80	4.90	6.20	7.60	9.60
	UK Sensible Cooling		kW	1.20	1.70	2.00	2.40	2.90	3.70	4.70	6.00	7.60
	Nominal Cooling		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Nominal Heating		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Air Flow Rate	High		m^3/sec	0.213	0.213	0.213	0.247	0.252	0.277	0.388	0.480	0.550
	Nom		m^3/sec	0.178	0.178	0.178	0.210	0.213	0.222	0.322	0.353	0.457
	Low		m^3/sec	0.148	0.148	0.148	0.173	0.178	0.178	0.230	0.230	0.343
Dimensions	Height x Width x Depth		mm	204x840x840						246x840x840		288x840x840
Weight			kg	18	18	18	19	21	21	24	24	26
Standard Decoration Panels	Model			Roundflow BYCQ140E white (standard panel) / Roundflow BYCQ140EB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	65x950x950								
	Weight		kg	5.5								
Fully White Decoration Panel	Model			Roundflow with white louvres BYCQ140EW								
	Colour			Pure White (RAL 9010)								
	Dimensions H x W x D		mm	65x950x950								
	Weight		kg	5.5								
Self Cleaning Decoration Panels	Model			Roundflow self-cleaning BYCQ140EGF white / Roundflow self-cleaning BYCQ140EGFB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	148x950x950								
	Weight		kg	10.3								
Electrical Details	Running Current		amps	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.7	1.2
	Power Supply		Phase / Hz / V	1 / 50 / 230								
	Max Fuse Amp		amps	6.0								
Sound Level	Sound Pressure	High	dBA	31.0	31.0	31.0	33.0	33.0	35.0	38.0	43.0	45.0
		Nom	dBA	29.0	29.0	29.0	31.0	31.0	33.0	34.0	37.0	41.0
		Low	dBA	28.0	28.0	28.0	29.0	29.0	30.0	30.0	30.0	36.0
	Sound Power		dBA	49.0	49.0	49.0	51.0	51.0	53.0	55.0	60.0	61.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)

Fully Flat Cassette

Design & Genius in one

Why choose the fully flat cassette?

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

› Advanced technology and top efficiency combined

› Quietest cassette available on the market

FXZQ-A

Choice between grey or white panels

Benefits for the installer

› Unique product in the market!
› Quietest unit (25dBA)
› The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
› Meeting European design taste.

Benefits for the consultant

› Unique product in the market!
› Blends seamlessly into any modern office interior design
› Ideal product to improve BREEAM score/EPBD in combination with Sky Air (FFA*) or VRV IV heat pump units (FXZQ*).

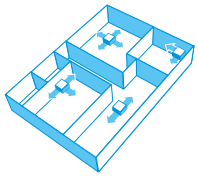
Benefits for the end user

› Engineering excellence and unique design in one
› Most quiet unit (25dBA)
› Perfect working conditions: no more cold draughts
› Save up to 27% on your energy bill thanks to the optional sensors
› Flexible usage of space and suits any room configuration thanks to individual flap control
› User-friendly remote control, available in several languages.

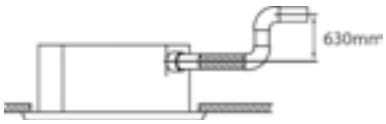
Fully flat cassette

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 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



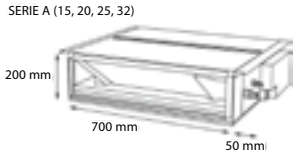
Indoor Units				FXZA15A	FXZA20A	FXZA25A	FXZA32A	FXZA40A	FXZA50A
Capacity	UK Total Cooling		kW	1.20	1.50	2.00	2.50	3.10	3.80
	UK Sensible Cooling		kW	0.90	1.20	1.50	1.90	2.50	3.00
	Nominal Cooling		kW	1.70	2.20	2.80	3.60	4.50	5.60
	Nominal Heating		kW	1.90	2.50	3.20	4.00	5.00	6.30
Air Flow Rate	High		m^3/sec	0.142	0.145	0.150	0.167	0.192	0.233
	Nom		m^3/sec	0.117	0.125	0.133	0.142	0.158	0.208
	Low		m^3/sec	0.108	0.108	0.108	0.117	0.133	0.167
Dimensions (with Decoration Panel)		HxWxD	mm	260 (306) x 575 (620) x 575 (620)					
Weight (with Decoration Panel)			kg	15.5 (18.3)	15.5 (18.3)	15.5 (18.3)	16.5 (19.3)	16.5 (19.3)	18.5 (21.3)
Decoration Panel				Fully Flat in white (N9.5) BYFQ60C4W (standard panel)					
Dimensions			mm	46 x 620 x 620					
Weight			kg	2.8					
Decoration Panel				Fully Flat in white (N9.5) BYFQ60C4S (silver panel)					
Dimensions			mm	46 x 620 x 620					
Weight			kg	2.8					
Decoration Panel				Old style panel BYFQ60B3 (White RAL9010)					
Dimensions			mm	55 x 700 x 700					
Weight			kg	2.7					
Electrical Details	Running Current		amps	0.3	0.3	0.3	0.4	0.4	0.6
	Power Supply		Phase / Hz / V	1 / 50 / 230					
	Max Fuse Amp		amps	6					
Sound Level	Sound Pressure	High	dBA	31.5	32.0	33.0	33.5	37.0	43.0
		Nom	dBA	28.0	29.5	30.0	30.0	32.0	40.0
		Low	dBA	25.5	25.5	25.5	26.0	28.0	33.0
	Sound Power		dBA	49.0	49.0	50.0	51.0	54.0	60.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)

BLUEVOLUTION

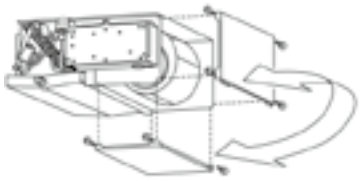
Slim concealed ceiling unit

Slim design for flexible installation

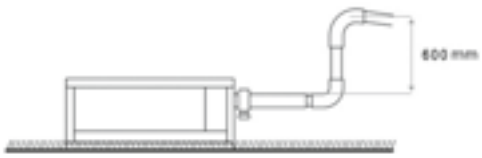
- Optimised design for R-32 refrigerant
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm



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



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



FXDA15-32A

BRC1H52W, BRP069C51

Indoor Units				FXDA10A	FXDA15A	FXDA20A	FXDA25A	FXDA32A	FXDA40A	FXDA50A	FXDA63A
Capacity	UK Total Cooling		kW	0.70	1.20	1.50	2.00	2.60	3.20	3.90	5.00
	UK Sensible Cooling		kW	0.60	1.00	1.20	1.50	1.90	2.40	3.00	3.80
	Nominal Cooling		kW	1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m3/sec	0.087	0.108	0.133	0.133	0.133	0.175	0.208	0.275
	Nom		m3/sec	0.082	0.103	0.120	0.120	0.120	0.158	0.183	0.242
	Low		m3/sec	0.078	0.097	0.107	0.107	0.107	0.142	0.167	0.217
External Static Pressure	High		Pa	30	30	30	30	30	44	44	44
	Low		Pa	10	10	10	10	10	15	15	15
Dimensions	Height x Width x Depth		mm	200 x 750 x 620					200 x 950 x 620		200 x 1150 x 620
Weight			kg	22	22	23	23	23	26.5	26.5	30.5
Electrical Details	Running Current		amps	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.5
	Power Supply		Phase / Hz / V	1 / 50 / 230							
	Max Fuse Amp		amps	6							
Sound Level	Sound Pressure	High	dBA	29.0	32.0	33.0	33.0	33.0	34.0	35.0	36.0
		Nom	dBA	28.0	31.0	31.0	31.0	31.0	32.0	33.0	34.0
		Low	dBA	26.0	27.0	27.0	27.0	27.0	28.0	29.0	30.0
	Sound Power		dBA	48.0	50.0	51.0	51.0	51.0	52.0	53.0	54.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)

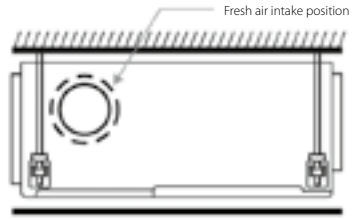
Concealed ceiling unit with medium ESP

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

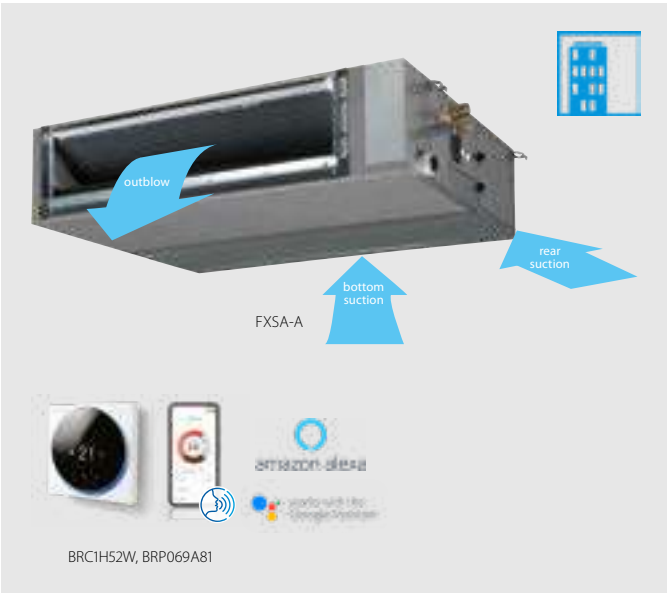
- Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction 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
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed

Fresh air intake opening in casing



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

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

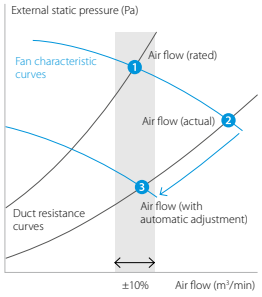


Automatic Airflow Adjustment function

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

Why?

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



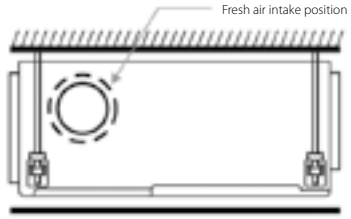
Indoor Units				FXSA15A	FXSA20A	FXSA25A	FXSA32A	FXSA40A	FXSA50A	FXSA63A	FXSA80A	FXSA100A	FXSA125A	FXSA140A
Capacity	UK Total Cooling		kW	1.10	1.50	2.00	2.50	3.10	3.90	4.80	6.20	7.80	10.20	11.20
	UK Sensible Cooling		kW	0.90	1.20	1.50	2.00	2.50	3.20	3.90	4.90	6.30	7.80	9.00
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Air Flow Rate	High		m3/sec	0.145	0.150	0.150	0.158	0.250	0.253	0.350	0.383	0.533	0.600	0.650
	Nom		m3/sec	0.125	0.125	0.125	0.133	0.208	0.208	0.300	0.325	0.450	0.525	0.567
	Low		m3/sec	0.108	0.108	0.108	0.117	0.183	0.183	0.250	0.267	0.383	0.433	0.467
External Static Pressure	High		Pa	150	150	150	150	150	150	150	150	150	150	150
	Low		Pa	30	30	30	30	30	30	30	40	40	50	50
Dimensions	Height x Width x Depth		mm	245 x 550 x 800				245 x 700 x 800		245 x 1000 x 800		245 x 1400 x 800		245 x 1550 x 800
Weight			kg	23.5	23.5	23.5	24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Electrical Details	Running Current		amps	0.7	0.7	0.7	0.8	1.3	1.3	1.3	1.5	1.8	2.0	2.7
	Power Supply		Phase / Hz / V	1 / 50 / 230										
	Max Fuse Amp		amps	6										
Sound Level	Sound Pressure	High	dBA	29.5	30.0	30.0	31.0	35.0	35.0	33.0	35.0	36.0	39.0	41.5
		Nom	dBA	28.0	28.0	28.0	29.0	32.0	32.0	30.0	32.0	34.0	36.0	38.0
		Low	dBA	25.0	25.0	25.0	26.0	29.0	29.0	27.0	29.0	31.0	33.0	34.0
	Sound Power		dBA	54.0	54.0	54.0	55.0	60.0	60.0	59.0	61.0	61.0	64.0	64.0
Piping Connections	Liquid		inches (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas		inches (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)

Concealed ceiling unit with high ESP

Ideal for large sized spaces ESP up to 250 Pa

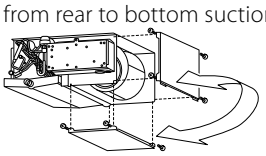
- Optimised design for R-32 refrigerant
- High external static pressure up to 250Pa facilitates extensive duct and grille network
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required (50-125 class)

Fresh air intake opening in casing

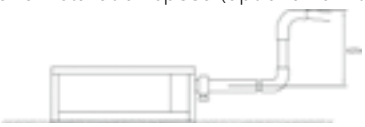


* Brings in up to 10% of fresh air into the room

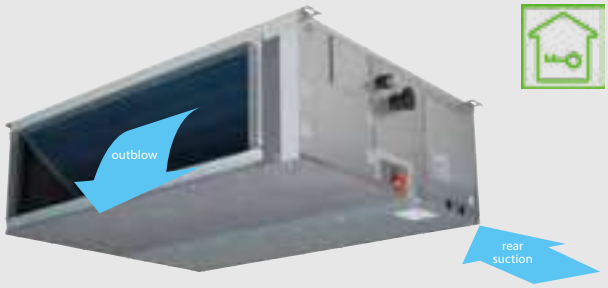
- Flexible installation, as the air suction direction can be altered from rear to bottom suction (50-125 class)



- Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



- Large capacity unit: up to 31.5 kW heating capacity



FXMA200-250A

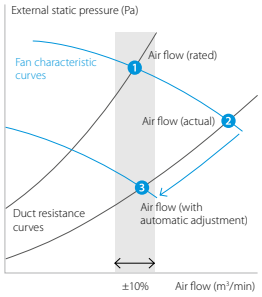
BRC1H52W, BRP069C51

Automatic Airflow Adjustment function

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

Why?

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



Indoor Units				FXMA50A	FXMA63A	FXMA80A	FXMA100A	FXMA125A
Capacity	UK Total Cooling		kW	3.70	4.80	6.00	7.50	9.40
	UK Sensible Cooling		kW	3.00	3.90	5.10	6.10	7.80
	Nominal Cooling		kW	5.6	7.1	9.0	11.2	14.0
	Nominal Heating		kW	6.3	8.0	10.0	12.5	16.0
Air Flow Rate	High		m^3/sec	0.300	0.325	0.417	0.533	0.600
	Nominal		m^3/sec	0.275	0.292	0.375	0.458	0.500
	Low		m^3/sec	0.250	0.267	0.333	0.383	0.433
External Static Pressure	High		Pa	200	200	200	200	200
	Factory Setting		Pa	100	100	100	100	100
Dimensions	Height x Width x Depth		mm	300x1000x700			300x1400x700	
Weight			kg	35.0			46.0	
Electrical Details	Power Supply		Phase / Hz / V	1 / 50 / 230				
	Max Fuse Amp		amps	16				
Sound Level	Sound Pressure (Cooling)	H / M / L	dBA	41.0	42.0	43.0	43.0	44.0
	Sound Power (Cooling)	H	dBA	61.0	64.0	67.0	65.0	70.0

Wall mounted unit

For rooms without false ceilings or free floor space

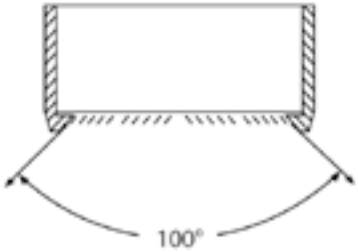
- Optimised design for R-32 refrigerant
- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed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

Indoor Units				FXAA15A	FXAA20A	FXAA25A	FXAA32A	FXAA40A	FXAA50A	FXAA63A
Capacity	UK Total Cooling		kW	1.10	1.50	1.90	2.40	3.00	3.70	4.70
	UK Sensible Cooling		kW	0.90	1.10	1.50	1.90	2.40	3.00	3.90
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m3/sec	0.118	0.132	0.138	0.157	0.203	0.237	0.303
	Low		m3/sec	0.108	0.108	0.108	0.108	0.163	0.182	0.215
Dimensions	Height x Width x Depth		mm	290 x 795 x 266				290 x 1050 x 269		
Weight			kg	12	12	12	12	15	15	15
Electrical Details	Running Current		amps	0.2	0.2	0.3	0.3	0.3	0.4	0.5
	Power Supply		Phase / Hz / V	1 / 50 / 230						
	Max Fuse Amp		amps	6						
Sound Level	Sound Pressure	High	dBA	32.0	33.0	35.0	37.5	37.0	41.0	46.5
		Low	dBA	28.5	28.5	28.5	28.5	33.5	35.5	38.5
	Sound Power		dBA	51.0	52.0	53.0	55.0	55.0	58.0	63.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)

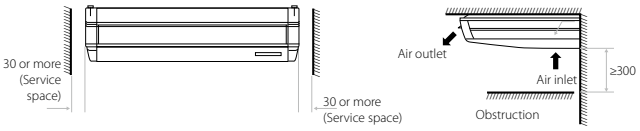
Ceiling suspended unit

For wide rooms without false ceilings or free floor space

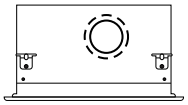
› Optimised design for R-32 refrigerant
› Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



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



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



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

› Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating.

FXHA50-63A

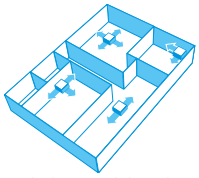
BRC1H52W, BRP069C51

Indoor Units			FXHA32A	FXHA50A	FXHA63A	FXHA100A
Capacity	UK Total Cooling	kW	2.40	3.70	4.90	7.50
	UK Sensible Cooling	kW	1.90	2.90	3.80	6.00
	Nominal Cooling	kW	3.6	5.6	7.1	11.2
	Nominal Heating	kW	4.0	6.3	8.0	12.5
Air Flow Rate	High	m^3/sec	0.208	0.267	0.292	0.450
	Nominal	m^3/sec	0.183	0.233	0.250	0.367
	Low	m^3/sec	0.167	0.208	0.217	0.317
Dimensions	Height x Width x Depth	mm	235 x 960 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1590 x 690
Weight		kg	24	33	33	39
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230			
	Max Fuse Amp	amps	16			
Sound Level	Sound Pressure H / M / L (Cooling)	dBA	36 / 34 / 31	36.5 / 34.5 / 33	37 / 35 / 34	44 / 37 / 34
	Sound Power H (Cooling)	dBA	54.0	54.0	55.0	62.0

4-way blow ceiling suspended unit

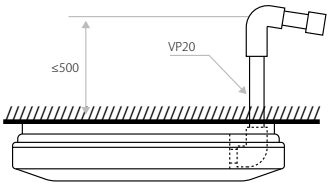
Unique Daikin unit for high rooms without false ceilings or free floor space

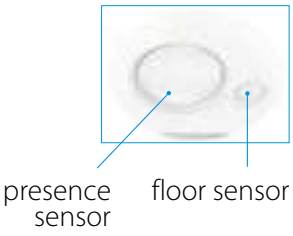
- Optimised design for R-32 refrigerant
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: 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.
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60°can be programmed via the remote control

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





Indoor Units			FXUA50A	FXUA71A	FXUA100A
Capacity	UK Total Cooling	kW	3.80	5.50	7.90
	UK Sensible Cooling	kW	2.90	4.30	6.40
	Nominal Cooling	kW	5.6	8.0	11.2
	Nominal Heating	kW	6.3	9.0	12.5
Air Flow Rate	High	m^3/sec	0.283	0.367	0.517
	Nominal	m^3/sec	0.242	0.308	0.425
	Low	m^3/sec	0.217	0.267	0.350
Dimensions	Height x Width x Depth	mm	198 x950x950		
Weight		kg	26	26	27
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230		
	Max Fuse Amp	amps	16		
Sound Level	Sound Pressure H / M / L (Cooling)	dBA	37 / 35 / 33	40 / 38 / 36	47 / 44 / 40
	Sound Power H (Cooling)	dBA	55.0	58.0	65.0

The most extensive VRV range on the market

VRV i-series

VRV S-series

VRV W-series

Heat recovery, heat pump and replacement series

For every application, a solution

Heat recovery with unique 3-pipe technology

Heat pump models with unique continuous heating during defrost

Dedicated **hot and cold climate** heat pumps offering efficient cooling up to 52°C and heating down to -25°C

Space saving mini VRV solutions, offering the most compact 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**

Water-cooled heat recovery and heat pump units, ideal for high rise buildings using water as heat source

A **complete total** solution integrating a wide range of indoor units, air curtains, hot water **hydroboxes** and **ventilation** units including air handling units

Keeping your commercial projects sustainable, on track and always on target

When you partner with us, you join our Climate360 programme – a complete suite of services demonstrating our commitment to a circular economy and Net Zero Goals.

Climate360 Design

Climate360 Design makes it easier than ever to keep commercial builds responsible and reduce the environmental impact of your HVAC systems. We offer some of the most accurate carbon data in the market and a handy scaling model, based on CIBSE's recommended TM65 methodology – with Environmental Product Declarations (EPDs) coming soon

Climate360 Activate

Climate360 Activate helps you commission and optimise your systems, offering total price transparency, end-to-end service, and easier-to-manage budgets.

Climate360 Service

Climate360 Service extends the life of our products with all the maintenance, system optimisation and warranty support you need

Climate360 Reclaim

Climate360 Reclaim is our fixed-fee recovery service, in which we recover your refrigerant easily, cost-effectively and quickly.

Climate360 Recycle

Climate360 Recycle makes it easy for you to dispose of HVAC equipment responsibly while earning business development funds – and it's all taken care of by our recycling partner.

L∞P BY DAIKIN

L∞p by Daikin is our revolutionary circular refrigerant programme and an essential part of our commitment to sustainable solutions.

Towards a circular economy of refrigerants

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

› **Saves over 400,000 kg of virgin refrigerant** being produced every year

400,000kgs/year

› Greatly **reduces the CO_2 footprint of refrigerant production with 72%!**

72% lower CO_2

For units produced and sold in Europe

› Exclusive to Daikin reclaimed gas is now used in our units
› Administratively allocated to VRV and chillers produced and sold in Europe

For more information click on the QR code

Products overview VRV IV

LOOP BY DAIKIN (1)

R-410A

	Model		Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30
Air cooled - heat recovery	VRV IV heat recovery	UNIQUE Best efficiency & comfort solution › Fully integrated solution with heat recovery for maximum efficiency › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains › "Free" heating and hot water through heat recovery › The perfect personal comfort for guests/tenants via simultaneous cooling and heating › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating › Allows technical cooling › Widest range of BS boxes on the market	REYQ-U VRV IV+ 				●	●	●		●	●	●	●					
								●		●		●	●	●	●	●	●	●	●
Air cooled - heat pump	VRV IV heat pump with continuous heating	Daikin's optimum solution with top comfort › Continuous heating during defrost › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains › Connectable to stylish indoor units (Daikin Emura, Stylish,...) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-U* VRV IV+ 				●	●	●		●	●	●	●					
												●	●	●	●	●	●	●	●
	VRV IV heat pump without continuous heating	Daikin's solution for comfort & low energy consumption › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains › Connectable to stylish indoor units (Daikin Emura, Stylish,...) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-U* VRV IV+ 				●	●	●		●	●	●	●					
												●	●	●	●	●	●	●	●
	VRVIV-S series Compact	The most compact VRV › Compact and lightweight single fan design saves space and is easy to install › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Stylish,...) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact 	●	●	●															
	VRVIV-S series	UNIQUE Space saving solution without compromising on efficiency › Space saving trunk design for flexible installation › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Stylish,...) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV9/TY9/TY1 VRV IV S-series  TV9	●	●	●															
			TY9/TY1	●	●	●	●	●	●												
	VRV IVheat pump for indoor installation	UNIQUE The invisible VRV › Unique VRV heat pump for indoor installation › Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains	SB.RKXYQ-T(8) VRV IV i-series 		●		●													
Replacement	heat recovery	Quick & quality replacement for R-22 and R-407C systems › Cost-effective and fast replacement through re-use of exisiting piping › Drastically improve your comfort, efficiency and reliability › No interruption of daily business while replacing your system › Replace Daikin and other manufacturers systems safely	RQCEQ-P3 VRVIII-Q 					●		●		●	●	●	●	●	●	●	●
	heat pump	Quick & quality replacement for R-22 and R-407C systems › Cost-effective and fast replacement through re-use of exisiting piping › Drastically improve your comfort, efficiency and reliability › No 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 		●		●	●	●		●	●	●	●					
												●	●	●	●	●	●	●	●
Water cooled	Water cooled VRV IV	Ideal for high rise buildings, using water as heat source › Reduced CO_2 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,...) › 2 analogue input signals allowing external control	RWEYQ-T9(2) VRV IV W+series 				●	●	●		●								
												●	●	●	●	●	●	●	●

(1) LOOP by Daikin is applicable for VRV units produced and sold in Europe (EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland). RXYSCQ-TV1, RXYSQ8-10-12TY1 and RQCEQ-P3 are not part of the LOOP by Daikin programme.
(2) Range not Eurovent certified.
(3) Multi combinations are not in scope of the Eurovent certificaton 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	O		O	O	O	O		O	› 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/RXYQ)	O	O	O		O	O	O	O	› 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	✓				✓	✓		✓	› Total system connection ratio with AHU is 50 ~ 110%
												AHU connection EKEXV + EKEQFCBA							✓		
●	●	●	●	●	●	●	●	●	●	●	●	Biddle air curtain CYV-DK-	✓				✓	✓		✓	
												VRV IV-S RXYSQ-/RXYSCQ-	O	O			O	O		O	› 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	✓				✓	✓		✓	› Standard total system connection ratio limit: 50 ~ 130%
												VRV III-Q+ series Replacement H/R RQCEQ	✓				✓				› Standard total system connection ratio limit: 50 ~ 130%
●	●	●	●	●	●							**VRV IV-Q Replacement H/P** RXYQQ	✓				✓	✓		✓	› Standard total system connection ratio limit: 50 ~ 130%
												VRV IV-W+ series Water-cooled VRV RWEYQ	O	O		O	O	O	O	O	› 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 ration with AHU only is 90~ 110%

O ... connection of indoor unit possible, but not neccessarily 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

Perial Asset Management

L∞P by Daikin is assisting clients in creating their own circular economy of refrigerants

Perial Asset Management (Perial AM) manages a diverse real estate portfolio mainly located in France and increasingly in Europe. The company is committed to reducing energy and water consumption as part of a continuous improvement process.

The arrival of new tenants at an office building in Boulogne-Billancourt spurred Perial Asset Management's decision to carry out renovation work to meet Perial AM's CSR objectives.

Constructed in the 1990s, the refurbished building extends over a surface area of 4,200 m^2 comprising the ground floor and seven stories, including offices and creating a 1,800 m^2 ERP area.
Working with Perial Asset Management (Perial AM), Daikin installed new VRV units with reclaimed refrigerant at their office building, while recycling the R-410A refrigerant from the old units to use it as a field charge for the new system.

Daikin is the only manufacturer in the market able to offer customers a holistic approach to reusing their refrigerant in new projects via its L∞P by Daikin program.

Las Arenas historic hotel, opts for sustainable upgrade

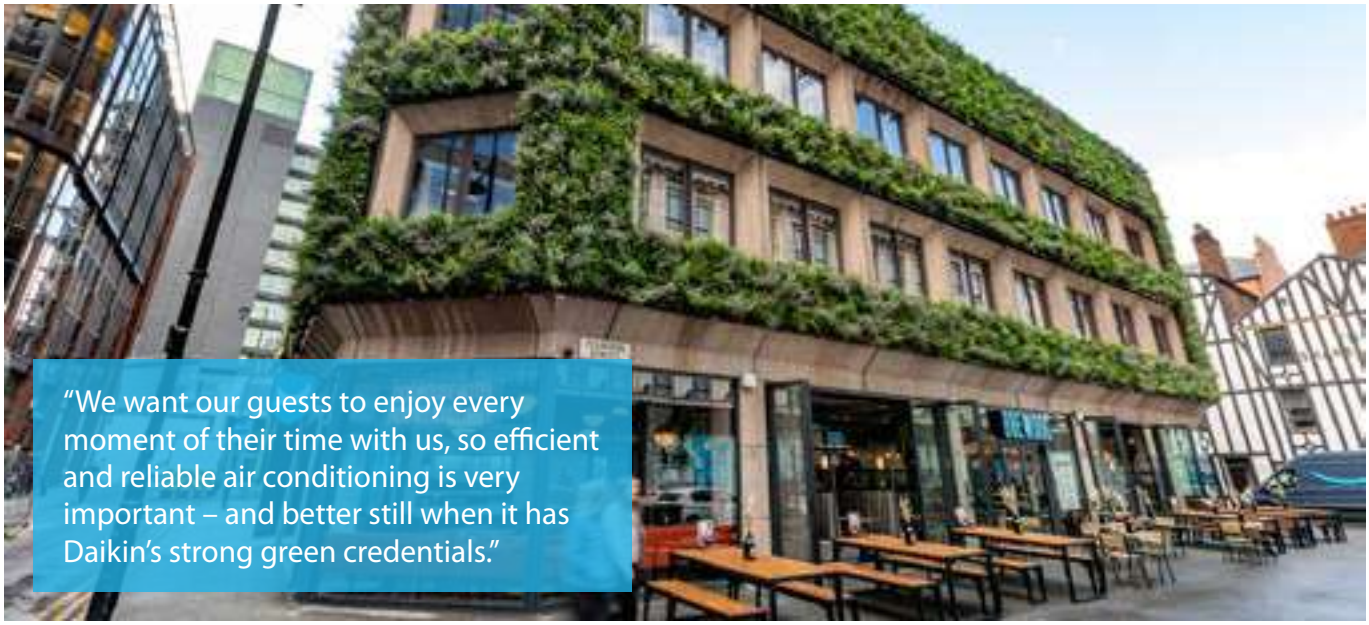
- Choosing a sustainable replacement solution was on top of the agenda
- Separate temperature zones enable every room to be controlled individually, adjusting the comfort conditions to suit the individual or activity
- 88 outdoor units were replaced in a record six months
- A true circular economy example:
  - Reuse of copper piping and indoor units
  - Reuse of regenerated refrigerant

Brewdog, Manchester

Daikin's in the DogHouse – air conditioning 'carbon negative' hotel

BrewDog takes pride in its environmental credentials – which is why Daikin VRV IV heat recovery systems were a natural choice for air conditioning its new, 'carbon negative' DogHouse boutique hotel and bar in Manchester.

Two Daikin VRV IV outdoor units 10kW systems serve the upper floors, while an 18kW unit serves the ground floor. Each of the 18 guest rooms has a slim concealed ceiling unit with a black Madoka controller.

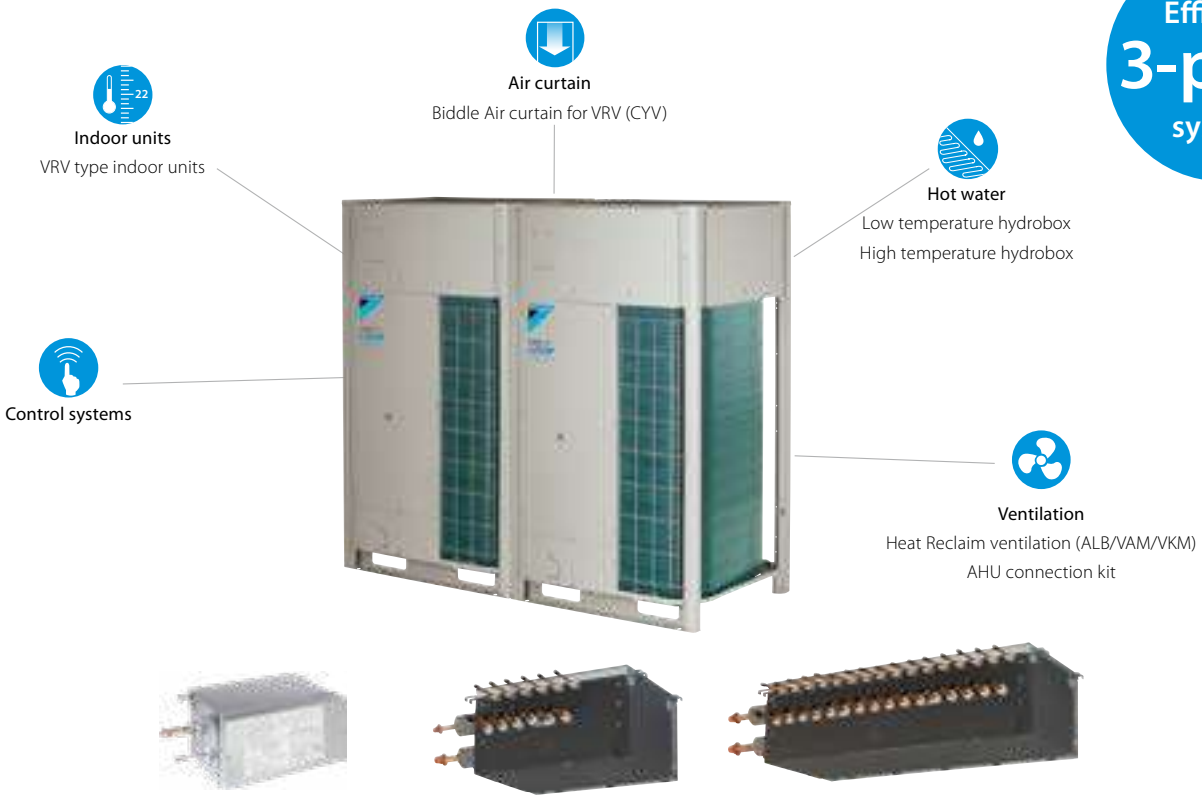


More cases at: https://www.daikin.co.uk/en_gb/about/case-studies.html

VRV IV+ heat recovery

Best efficiency and comfort solution

Efficient 3-pipe system



Widest range of BS boxes for the fastest installation

LOOP BY DAIKIN

VRV IV standards:

Variable refrigerant temperature

Customise 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

VRV IV
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

BS1Q 10, 16, 25 A

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

BS 4 Q14 AV1

BS 6, 8 Q14 AV1

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

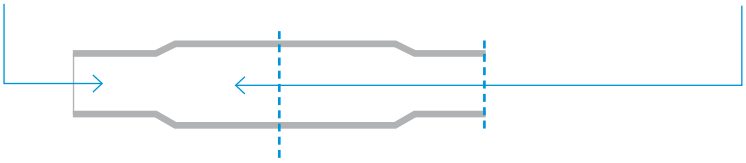
BS 10, 12 Q14 AV1

BS 16 Q14 AV1

Faster installation thanks to open connection

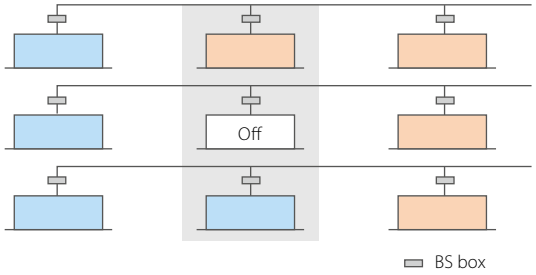
› No need to cut the pipe before brazing – for indoor units smaller or equal to 5.6 kW (50 class)

› Cut and braze the pipe – for indoor units bigger or equal to 7.1 kW (63 class)



Maximum comfort at all times

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



R-410A

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

REYQ-U (8 to 12 hp)

Outdoor Units			**8 hp Single**	**10 hp Single**	**10 hp Multi**		**12 hp Single**
			REYQ8U	**REYQ10U**	**REMQ5U**	**REMQ5U**	**REYQ12U**
Capacity	Nominal Cooling	kW	22.40	28.00	28.00		33.50
	Nominal Heating	kW	25.00	31.50	32.00		37.50
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765
Weight		kg	230	230	230	230	230
Fan	Air Flow Rate	m^3/sec	2.700	2.917	2.700	2.700	3.084
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415				
	Running Current	amps	8.9	11.8	5.3	5.3	15.3
	Starting Current	amps	4				
	Fuse Rating	amps	20	25	20	20	32
Refrigerant Circuit	Refrigerant Type		R410A				
	Refrigerant Charge	kg	9.7	9.8	9.7	9.7	9.9
	Additional Charge	kg	data book				
Sound Pressure		dBA	57.0	57.0	57.0	57.0	61.0
Sound Power		dBA	78.0	79.1	78.0	78.0	83.4
Piping Limits	Maximum Total Length	m	1000				
	Maximum Actual Length	m	165				
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)		1/2 (12.7)
	Discharge	inch (mm)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)		3/4 (19.1)
	Gas	inch (mm)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)		1 1/8 (28.6)
Capacity Index Limit			100 ~ 260	125 ~ 325	125 ~ 325		150 ~ 390
Maximum Number of Connected Indoor Units			64	64	64		64

REYQ-U (13 to 16 hp)

Outdoor Units			**13 hp Multi**		**14 hp Single**	**16 hp Single**	**16 hp Multi**	
			REYQ8U	**REMQ5U**	**REYQ14U**	**REYQ16U**	**REYQ8U**	**REYQ8U**
Capacity	Nominal Cooling	kW	36.40		40.00	45.00	44.80	
	Nominal Heating	kW	41.00		45.00	50.00	50.00	
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 930 x 765
Weight		kg	230	230	314	314	230	230
Fan	Air Flow Rate	m^3/sec	2.700	2.700	3.717	4.334	2.700	2.700
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415					
	Running Current	amps	8.9	5.3	17.4	21.1	8.9	8.9
	Starting Current	amps	4					
	Fuse Rating	amps	20	20	32	40	20	20
Refrigerant Circuit	Refrigerant Type		R410A					
	Refrigerant Charge	kg	9.7	9.7	11.8	11.8	9.7	9.7
	Additional Charge	kg	data book					
Sound Pressure		dBA	57.0	57.0	60.0	63.0	57.0	57.0
Sound Power		dBA	78.0	78.0	81.0	85.6	78.0	78.0
Piping Limits	Maximum Total Length	m	1000					
	Maximum Actual Length	m	165					
Piping Connections - Systems	Liquid	inch (mm)	1/2 (12.7)		1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	
	Discharge	inch (mm)	3/4 (19.1)		7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	
	Gas	inch (mm)	1 1/8 (28.6)		1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	
Capacity Index Limit			162.5 ~ 422.5		175 ~ 455	200 ~ 520	200 ~ 520	
Maximum Number of Connected Indoor Units			64		64	64	64	

REYQ18-36

REYQ38-54

LOOP BY DAIKIN

For units made and sold in Europe*

ErP 2021 COMPLIANT

Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

REYQ-U (18 to 20 hp)

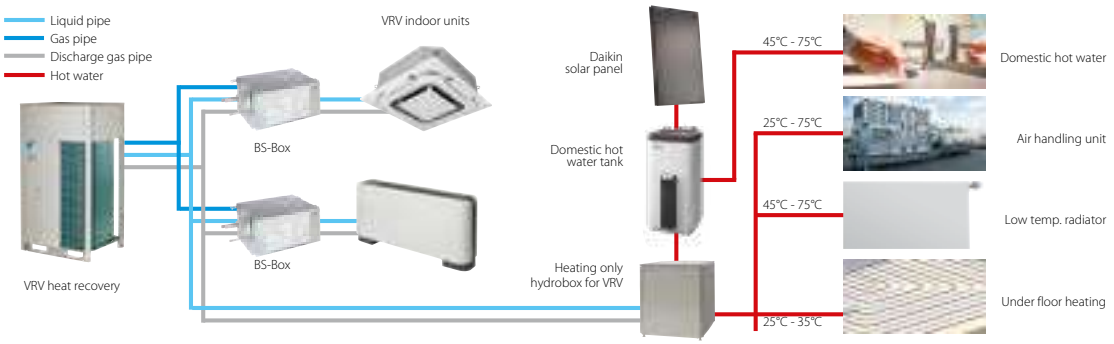
Outdoor Units			18 hp Single	18 hp Multi		20 hp Single	20 hp Multi	
			REYQ18U	REYQ8U	REYQ10U	REYQ20U	REYQ8U	REYQ12U
Capacity	Nominal Cooling	kW	50.40	50.40		55.90	55.90	
	Nominal Heating	kW	56.50	56.50		63.00	62.50	
Dimensions	Height x Width x Depth	mm	1685 x 1240 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 930 x 765
Weight		kg	317	230	230	317	230	230
Fan	Air Flow Rate	m³/sec	4.184	2.700	2.917	4.350	2.917	2.917
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415					
	Running Current	amps	24.6	8.9	11.8	31.1	11.8	11.8
	Starting Current	amps	4					
	Fuse Rating	amps	40	20	25	50	25	25
Refrigerant Circuit	Refrigerant Type		R410A					
	Refrigerant Charge	kg	11.8	9.7	9.8	11.8	9.8	9.8
	Additional Charge	kg	data book					
Sound Pressure		dBA	62.0	57.0	57.0	65.0	57.0	57.0
Sound Power		dBA	83.8	78.0	79.1	87.9	79.1	79.1
Piping Limits	Maximum Total Length	m	1000					
	Maximum Actual Length	m	165					
Piping Connections - Systems	Liquid	inch (mm)	5/8 (15.9)	5/8 (15.9)		5/8 (15.9)	5/8 (15.9)	
	Discharge	inch (mm)	7/8 (22.2)	7/8 (22.2)		1 1/8 (28.6)	1 1/8 (28.6)	
	Gas	inch (mm)	1 1/8 (28.6)	1 1/8 (28.6)		1 1/8 (28.6)	1 1/8 (28.6)	
Capacity Index Limit			225 ~ 585	225 ~ 585		250 ~ 650	250 ~ 650	
Maximum Number of Connected Indoor Units			64	64		64	64	

REYQ-U (22 to 28 hp)

Outdoor Units			22 hp Multi		24 hp Multi		26 hp Multi		28 hp Multi	
			REYQ10U	REYQ12U	REYQ8U	REYQ16U	REYQ12U	REYQ14U	REYQ12U	REYQ16U
Capacity	Nominal Cooling	kW	61.50		67.40		73.50		78.50	
	Nominal Heating	kW	69.00		75.00		82.50		87.50	
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 1240 x 765
Weight		kg	230	230	230	314	230	314	230	314
Air Flow Rate		m³/sec	2.917	3.084	2.700	4.334	3.084	3.717	3.084	4.334
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Running Current	amps	11.8	15.3	8	21.1	15.3	17.4	15.3	21.1
	Starting Current	amps	4							
	Fuse Rating	amps	25	32	20	40	32	32	32	40
Refrigerant Circuit	Refrigerant Type		R410A							
	Refrigerant Charge	kg	9.8	9.9	9.7	11.8	9.9	11.8	9.9	11.8
	Additional Charge	kg	data book							
Sound Pressure		dBA	57.0	61.0	57.0	63.0	61.0	60.0	61.0	63.0
Sound Power		dBA	79.1	83.4	78.0	85.6	83.4	81.0	83.4	85.6
Piping Limits	Maximum Total Length	m	1000							
	Maximum Actual Length	m	165							
Piping Connections - Systems	Liquid	inch (mm)	5/8 (15.9)		5/8 (15.9)		3/4 (19)		3/4 (19)	
	Discharge	inch (mm)	1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)	
	Gas	inch (mm)	1 1/8 (28.6)		1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)	
Capacity Index Limit			275 ~ 715		300 ~ 780		325 ~ 845		350 ~ 910	
Maximum Number of Connected Indoor Units			64		64		64		64	

REYQ-U (30 to 36 hp)

Outdoor Units			30 hp Multi		32 hp Multi		34 hp Multi		36 hp Multi	
			REYQ12U	REYQ18U	REYQ16U	REYQ16U	REYQ16U	REYQ18U	REYQ16U	REYQ20U
Capacity	Nominal Cooling	kW	83.90		90.00		95.40		97.00	
	Nominal Heating	kW	94.00		100.00		106.50		113.00	
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	230	317	314	314	314	317	314	317
Fan	Air Flow Rate	m^3/sec	3.084	4.184	4.334	4.334	4.334	4.184	4.334	4.350
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Running Current	amps	15.3	24.6	21.1	21.1	21.1	24.6	21.1	31.1
	Starting Current	amps	4							
	Fuse Rating	amps	32	40	40	40	40	40	40	50
Refrigerant Circuit	Refrigerant Type		R410A							
	Refrigerant Charge	kg	9.9	11.8	11.8	11.8	11.8	11.8	11.8	11.8
	Additional Charge	kg	data book							
Sound Pressure		dBA	61.0	62.0	63.0	63.0	63.0	62.0	63.0	65.0
Sound Power		dBA	83.4	83.8	85.6	85.6	85.6	83.8	85.6	87.9
Piping Limits	Maximum Total Length	m	1000							
	Maximum Actual Length	m	165							
Piping Connections - Systems	Liquid	inch (mm)	3/4 (19.1)		3/4 (19.1)		3/4 (19.1)		3/4 (19.1)	
	Discharge	inch (mm)	1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)	
	Gas	inch (mm)	1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)		1 5/8 (41.3)	
Capacity Index Limit			375 ~ 975		400 ~ 1040		425 ~ 1105		450 ~ 1170	
Maximum Number of Connected Indoor Units			64		64		64		64	



REYQ-U (38 to 42 hp)

Outdoor Units			38 hp Multi			40 hp Multi			42 hp Multi		
			REYQ8U	REYQ12U	REYQ18U	REYQ10U	REYQ12U	REYQ18U	REYQ10U	REYQ16U	REYQ16U
Capacity	Nominal Cooling	kW	106.30			111.90			118.00		
	Nominal Heating	kW	119.00			125.50			131.50		
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	230	230	317	230	230	317	230	314	314
Fan	Air Flow Rate	m^3/sec	2.700	3.084	4.184	2.917	3.084	4.184	2.917	4.334	4.334
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415								
	Running Current	amps	8.9	15.3	24.6	11.8	15.3	24.6	11.8	21.1	21.1
	Starting Current	amps	4								
	Fuse Rating	amps	20	32	40	25	32	40	25	40	40
Refrigerant Circuit	Refrigerant Type		R410A								
	Refrigerant Charge	kg	9.7	9.9	11.8	9.8	9.9	11.8	9.8	11.8	11.8
	Additional Charge	kg	data book			data book			data book		
Sound Pressure		dBA	57.0	61.0	62.0	57.0	61.0	62.0	57.0	63.0	63.0
Sound Power		dBA	78.0	83.4	83.8	79.1	83.4	83.8	79.1	85.6	85.6
Piping Limits	Maximum Total Length	m	1000			1000			1000		
	Maximum Actual Length	m	165			165			165		
Piping Connections - Systems	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Discharge	inch (mm)	1 3/8 (34.9)			1 3/8 (34.9)			1 3/8 (34.9)		
	Gas	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			475 ~ 1235			500 ~ 1300			525 ~ 1365		
Maximum Number of Connected Indoor Units			64			64			64		

REYQ-U (44 to 48 hp)

Outdoor Units			44 hp Multi			46 hp Multi			48 hp Multi		
			REYQ12U	REYQ16U	REYQ16U	REYQ14U	REYQ16U	REYQ16U	REYQ16U	REYQ16U	REYQ16U
Capacity	Nominal Cooling	kW	123.50			130.00			135.00		
	Nominal Heating	kW	137.50			145.00			150.00		
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	230	314	314	314	314	314	314	314	314
Fan	Air Flow Rate	m^3/sec	3.084	4.334	4.334	3.717	4.334	4.334	4.334	4.334	4.334
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415								
	Running Current	amps	15.3	21.1	21.1	17.4	21.1	21.1	21.1	21.1	21.1
	Starting Current	amps	4								
	Fuse Rating	amps	32	40	40	32	40	40	40	40	40
Refrigerant Circuit	Refrigerant Type		R410A								
	Refrigerant Charge	kg	9.9	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
	Additional Charge	kg	data book			data book			data book		
Sound Pressure		dBA	61.0	63.0	63.0	60.0	63.0	63.0	63.0	63.0	63.0
Sound Power		dBA	83.4	85.6	85.6	81.0	85.6	85.6	85.6	85.6	85.6
Piping Limits	Maximum Total Length	m	1000			1000			1000		
	Maximum Actual Length	m	165			165			165		
Piping Connections - Systems	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Discharge	inch (mm)	1 3/8 (34.9)			1 3/8 (34.9)			1 3/8 (34.9)		
	Gas	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			550 ~ 1430			575 ~ 1495			600 ~ 1560		
Maximum Number of Connected Indoor Units			64			64			64		

REYQ-U (50 to 54 hp)

Outdoor Units			50 hp Multi			52 hp Multi			54 hp Multi		
			REYQ16U	REYQ16U	REYQ18U	REYQ16U	REYQ18U	REYQ18U	REYQ18U	REYQ18U	REYQ18U
Capacity	Nominal Cooling	kW	140.40			145.80			151.20		
	Nominal Heating	kW	156.50			163.00			169.50		
Dimensions	Height x Width x Depth	mm	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	314	314	317	314	317	317	317	317	317
Fan	Air Flow Rate	m^3/sec	4.334	4.334	4.184	4.334	4.184	4.184	4.184	4.184	4.184
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415								
	Running Current	amps	21.1	21.1	24.6	21.1	24.6	24.6	24.6	24.6	24.6
	Starting Current	amps	4								
	Fuse Rating	amps	40	40	40	40	40	40	40	40	40
Refrigerant Circuit	Refrigerant Type		R410A								
	Refrigerant Charge	kg	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
	Additional Charge	kg	data book			data book			data book		
Sound Pressure		dBA	63.0	63.0	62.0	63.0	62.0	62.0	62.0	62.0	62.0
Sound Power		dBA	85.6	85.6	83.8	85.6	83.8	83.8	83.8	83.8	83.8
Piping Limits	Maximum Total Length	m	1000			1000			1000		
	Maximum Actual Length	m	165			165			165		
Piping Connections - Systems	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Discharge	inch (mm)	1 3/8 (34.9)			1 3/8 (34.9)			1 3/8 (34.9)		
	Gas	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			625 ~ 1625			650 ~ 1690			675 ~ 1755		
Maximum Number of Connected Indoor Units			64			64			64		

Individual and multi branch selector box installation

BS1Q-A

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-T8 heat recovery units

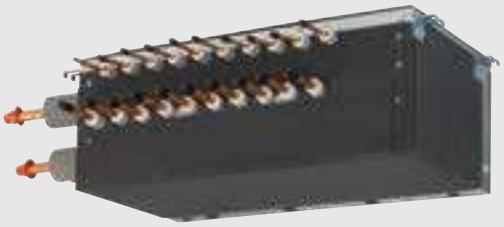
BS1Q-A

Single Boxes for VRV IV+ Heat Recovery (REYQ-U / RWEYQ-T9 / RQEQ-P3)			Single Boxes		
			BS1Q10A	BS1Q16A	BS1Q25A
Dimensions	H x W x D	mm	207 x 388 x 326		
Weight		kg	12	12	15
Total Indoor Capacity			15 ~ 100	101 ~ 160	161 ~ 250
Number of Fan Coil Units			6	8	8
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230		
	Power Input	kW	0.005		
	Fuse Rating	amps	5		
Piping Limits	Level Difference	m	data book		
	Maximum Length	m	data book		
Piping Connections Indoor	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	7/8 (22.2)
Piping Connections Outdoor	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Suction	inch (mm)	5/8 (15.9)	5/8 (15.9)	7/8 (22.2)
	Discharge	inch (mm)	1/2 (12.7)	1/2 (12.7)	3/4 (19.1)

BS-Q14AV1B

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-T8 heat recovery units



BS10Q14AV1B

Multi Boxes for VRV IV+ Heat Recovery (REYQ-U / RWEYQ-T9 / RQEQ-P3)			Multi Boxes					
			BS4Q14AV1B	BS6Q14AV1B	BS8Q14AV1B	BS10Q14AV1B	BS12Q14AV1B	BS16Q14AV1B
Dimensions	H x W x D	mm	298 x 370 x 430	298 x 580 x 430		298 x 820 x 430		298 x 1060 x 430
Weight		kg	17	24	26	35	38	50
Branches per box			4	6	8	10	12	16
Capacity index of each branch			140 or less					
Number of Fan Coil Units per branch			5 per branch					
Total Indoor Capacity Index			400 or less	600 or less	750 or less			
Total number of Fan Coil units per box			20	30	40	50	60	64
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230					
	Power Input	kW	0.043	0.064	0.086	0.107	0.129	0.172
	Fuse Rating	amps	5	5	5	5	5	5
Piping Limits	Level Difference	m	Data Book					
	Maximum Length	m						
Piping Connections Indoor	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
Piping Connections Outdoor	Liquid	inch (mm)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)
	Suction	inch (mm)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 3/8 (34.9)
	Discharge	inch (mm)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)

VRV IV+ heat pump

Daikin's optimum solution with maximum comfort

LOOP BY DAIKIN

VRV IV standards:

Variable refrigerant temperature

Customise your VRV for best seasonal efficiency & comfort

Continuous heating

The new standard in heating comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

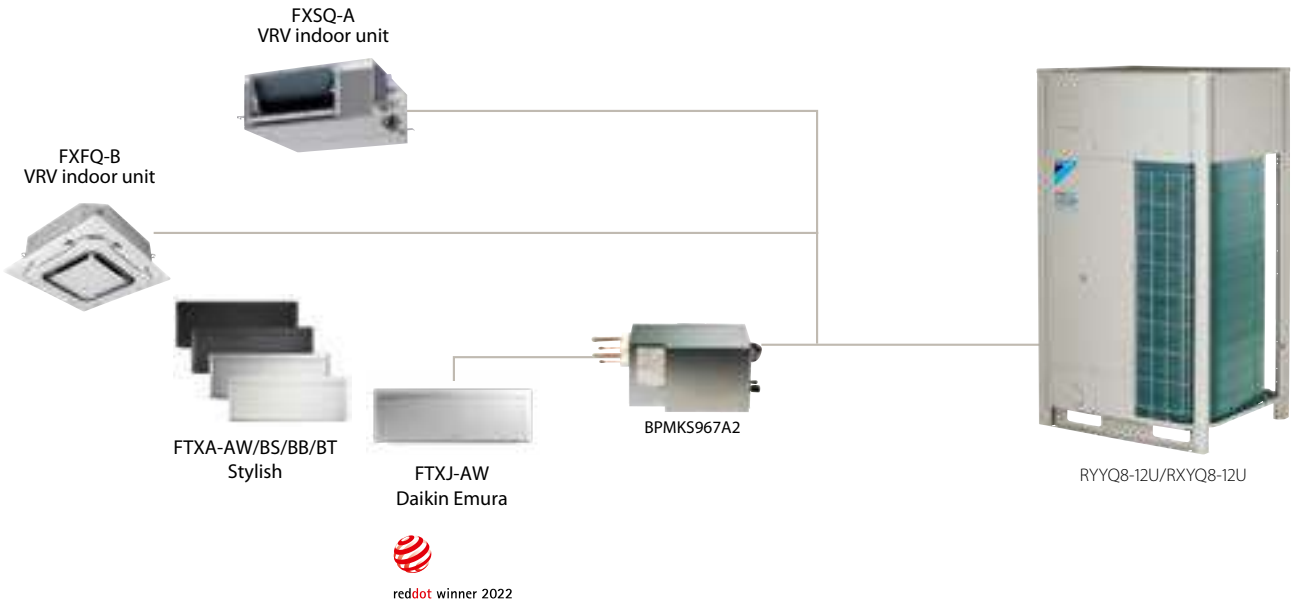
- 7 segment display
- Automatic refrigerant charge
- Refrigerant containment check
- Night quiet mode
- Low noise function
- Connectable to stylish indoor units (Only for single modules)
- Connectable to LT hydrobox (1)
- Full inverter compressors
- Gas cooled PCB
- 4 side heat exchanger
- Reluctance 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

Mix of
RA units & VRV units

Wide range of indoor units

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



Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXJ-AW/AS/AB	●	●	●		●		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT	●	●	●	●	●		
Perfera wall mounted	FTXM-R	●	●	●	●	●	●	●
Perfera floor standing NEW	FVXM-A9	●	●	●		●		

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

VRV IV

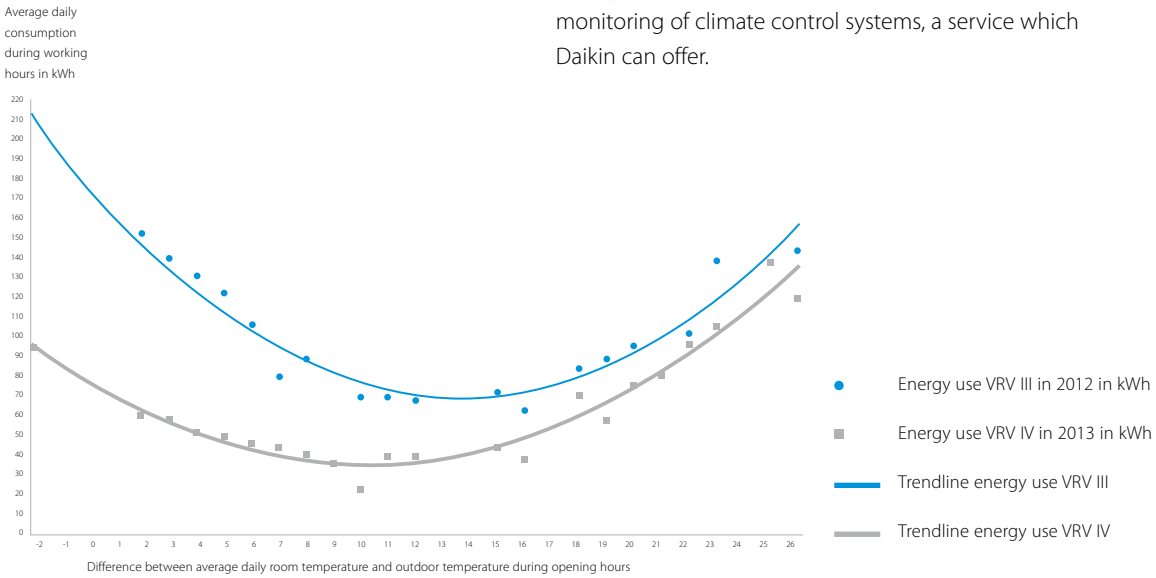
proven in practice: 40% more efficient

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

Results: up to 60% less energy consumed

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

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



	VRV III 20HP (2 modules)	VRV IV 18HP (1 module)
Period	March 2012 - February 2013	March 2013 - February 2014
Avg (kWh/Month)	2.797	1.502
Total (KWh)	33.562	18.023
Total (€)	6.041	3.244
Yearly (operation cost/m² (€/m²)	9.9	5.3
	46% savings = € 2.797	

Measured data

Fashion store Unterhaching (Germany)

› Floor space: 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.

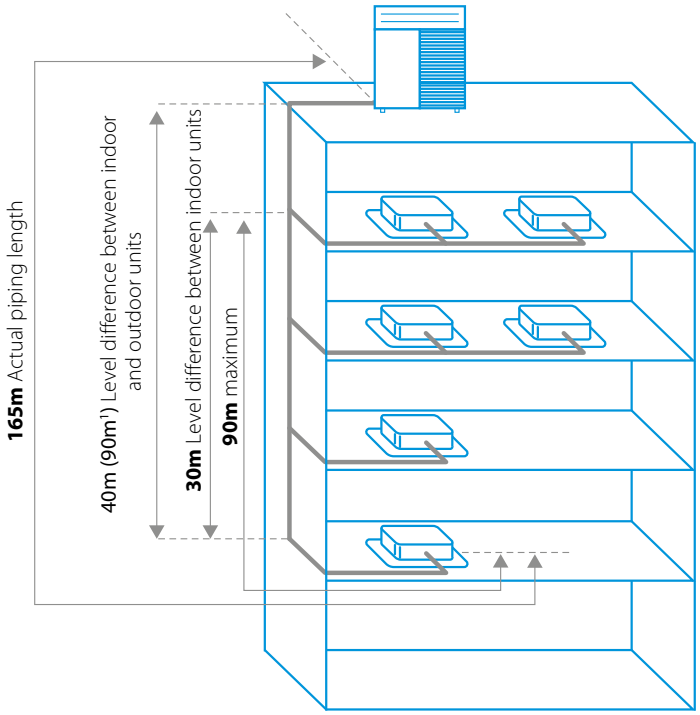
Free combination of outdoor units

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

Flexible piping design

Total piping length	1,000m
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



R-410A

VRV IV+ heat pump with continuous heating

Daikin's optimum solution with maximum comfort

- By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loop-by-daikin
- 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)
- 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

LOOP BY DAIKIN

For units made and sold in Europe**

ErP 2021 COMPLIANT

Already fully compliant to LOT 21 - Tier 2

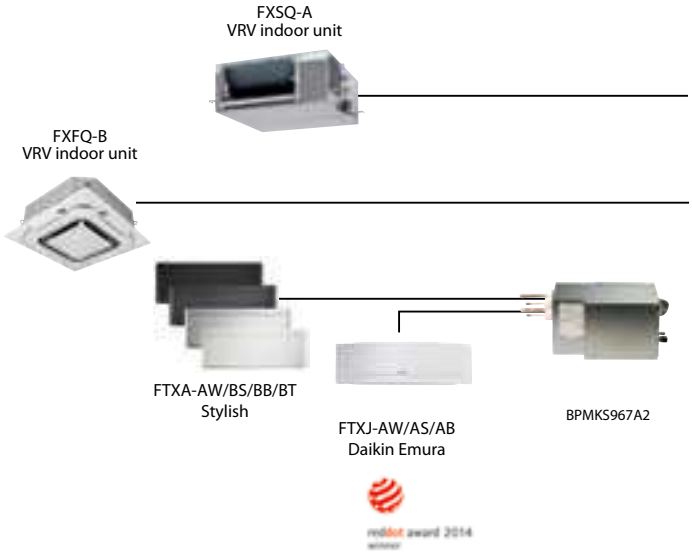
Published data with real-life indoor units

RYYQ-U (up to 20 hp)

Outdoor Units			RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20U
Capacity	Nominal Cooling	kW	22.40	28.00	33.50	40.00	45.00	50.00	56.00
	Nominal Heating	kW	25.00	31.50	37.50	45.00	50.00	56.50	63.00
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	252	252	252	319	319	378	378
Air Flow Rate		m³/sec	2.700	2.917	3.083	3.717	4.333	4.183	4.350
External Static Pressure	High	Pa	78	78	78	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415						
	Running Current	amps	8.4	11.5	14.2	17.2	20.6	23.4	29.5
	Starting Current	amps	4						
	Fuse Rating	amps	20	25	32	32	40	40	50
Refrigerant Circuit	Refrigerant Type		R410A						
	Refrigerant Charge	kg	5.9	6.0	6.3	10.3	10.4	11.7	11.8
	Additional Charge	kg	data book						
Sound Pressure		dBA	57.0	57.0	61.0	60.0	63.0	62.0	65.0
Sound Power		dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Piping Limits	Maximum Length	m	165	165	165	165	165	165	165
	Maximum Vertical Rise	m	data book						
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)
	Gas	inch (mm)	3/4 (19.1)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)
Capacity Index Limit			100~260	125~325	150~390	175~455	200~520	225~585	250~650
Maximum Number of Connected Indoor Units			64	64	64	64	64	64	64

RYYQ-U (22 to 24 hp)

Outdoor Units			RYYQ22U		RYYQ24U	
			RYMQ10U	RYMQ12U	RYMQ8U	RYMQ16U
Capacity	Nominal Cooling	kW	61.50		67.40	
	Nominal Heating	kW	69.00		75.00	
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765
Weight		kg	198	198	198	275
Air Flow Rate		m³/sec	2.917	3.083	2.700	4.333
External Static Pressure	High	Pa	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415			
	Running Current	amps	11.5	14.2	8.4	20.6
	Starting Current	amps	4			
	Fuse Rating	amps	25	32	20	40
Refrigerant Circuit	Refrigerant Type		R410A			
	Refrigerant Charge	kg	6.0	6.3	5.9	11.3
	Additional Charge	kg	databook			
Sound Pressure		dBA	57.0	61.0	57.0	63.0
Sound Power		dBA	79.1	83.4	78.0	85.6
Piping Limits	Maximum Length	m	165		165	
	Maximum Vertical Rise	m	databook			
Piping Connections	Liquid	inch (mm)	5/8 (15.9)		5/8 (15.9)	
	Gas	inch (mm)	1 1/8 (28.6)		1 3/8 (34.9)	
Capacity Index Limit			275~715		300~780	
Maximum Number of Connected Indoor Units			64		64	



RYYQ-U (26 to 34 hp)

Outdoor Units			RYYQ26U		RYYQ28U		RYYQ30U		RYYQ32U		RYYQ34U	
			RYMQ12U	RYMQ14U	RYMQ12U	RYMQ16U	RYMQ12U	RYMQ18U	RYMQ16U	RYMQ16U	RYMQ16U	RYMQ18U
Capacity	Nominal Cooling	kW	73.50		78.50		83.90		90.00		95.40	
	Nominal Heating	kW	82.50		87.50		94.00		100.00		106.50	
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	1240	930	1240	930	1240	1240	1240	1240	1240
	Depth	mm	765	765	765	765	765	765	765	765	765	765
Weight		kg	198	275	198	275	198	308	275	275	275	308
Air Flow Rate		m³/sec	3.083	3.717	3.083	4.333	3.083	4.183	4.333	4.333	4.333	4.183
External Static Pressure	High	Pa	78	78	78	78	78	78	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415									
	Running Current	amps	14.2	17.2	14.2	20.6	14.2	23.4	20.6	20.6	20.6	23.4
	Starting Current	amps	4									
	Fuse Rating	amps	32	32	32	40	32	40	40	40	40	40
Refrigerant Circuit	Refrigerant Type		R410A									
	Refrigerant Charge	kg	6.3	10.3	6.3	11.3	6.3	11.7	11.3	11.3	11.3	11.7
	Additional Charge	kg	data book									
Sound Pressure		dBA	61.0	60.0	61.0	63.0	61.0	62.0	63.0	63.0	63.0	62.0
Sound Power		dBA	83.4	80.9	83.4	85.6	83.4	83.8	85.6	85.6	85.6	83.8
Piping Limits	Maximum Length	m	165									
	Maximum Vertical Rise	m	data book									
Piping Connections	Liquid	inch (mm)	3/4 (19.1)		3/4 (19.1)		3/4 (19.1)		3/4 (19.1)		3/4 (19.1)	
	Gas	inch (mm)	1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)	
Capacity Index Limit			325~845		350~910		375~975		400~1040		425~1105	
Maximum Number of Connected Indoor Units			64		64		64		64		64	

RYYQ-U (36 to 42 hp)

Outdoor Units			RYYQ36U		RYYQ38U			RYYQ40U			RYYQ42U		
			RYMQ16U	RYMQ20U	RYMQ8U	RYMQ10U	RYMQ20U	RYMQ10U	RYMQ12U	RYMQ18U	RYMQ10U	RYMQ16U	RYMQ16U
Capacity	Nominal Cooling	kW	97.00		102.40			111.90			118.00		
	Nominal Heating	kW	113.00		119.50			125.50			131.50		
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	1240	1240	930	930	1240	930	930	1240	930	1240	1240
	Depth	mm	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	275	308	198	198	308	198	198	308	198	275	275
Air Flow Rate		m³/sec	4.333	4.350	2.700	2.917	4.350	2.917	3.083	4.183	2.917	4.333	4.333
External Static Pressure	High	Pa	78	78	78	78	78	78	78	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415										
	Running Current	amps	20.6	29.5	8.4	11.5	29.5	11.5	14.2	23.4	11.5	20.6	20.6
	Starting Current	amps	4										
	Fuse Rating	amps	40	50	20	25	50	25	32	40	25	40	40
Refrigerant Circuit	Refrigerant Type		R410A										
	Refrigerant Charge	kg	11.3	11.8	5.9	6.0	11.8	6.0	6.3	11.7	6.0	11.3	11.3
	Additional Charge	kg	data book										
Sound Pressure		dBA	63.0	65.0	57.0	57.0	65.0	57.0	61.0	62.0	57.0	63.0	63.0
Sound Power		dBA	85.6	87.9	78.0	79.1	87.9	79.1	83.4	83.8	79.1	85.6	85.6
Piping Limits	Maximum Length	m	165										
	Maximum Vertical Rise	m	data book										
Piping Connections	Liquid	inch (mm)	3/4 (19.1)		3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Gas	inch (mm)	1 5/8 (41.3)		1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			450~1170		475~1235			500~1300			525~1365		
Maximum Number of Connected Indoor Units			64		64			64			64		

RYYQ-U (44 to 48 hp)

Outdoor Units			RYYQ44U			RYYQ46U			RYYQ48U		
			RYMQ12U	RYMQ16U	RYMQ16U	RYMQ14U	RYMQ16U	RYMQ16U	RYMQ16U	RYMQ16U	RYMQ16U
Capacity	Nominal Cooling	kW	123.50			130.00			135.00		
	Nominal Heating	kW	137.50			145.00			150.00		
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	1240	1240	1240	1240	1240	1240	1240	1240
	Depth	mm	765	765	765	765	765	765	765	765	765
Weight		kg	198	275	275	275	275	275	275	275	275
Air Flow Rate		m^3/sec	3.083	4.333	4.333	3.717	4.333	4.333	4.333	4.333	4.333
External Static Pressure	High	Pa	78	78	78	78	78	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415								
	Running Current	amps	14.2	20.6	20.6	17.2	20.6	20.6	20.6	20.6	20.6
	Starting Current	amps	4								
	Fuse Rating	amps	32	40	40	32	40	40	40	40	40
Refrigerant Circuit	Refrigerant Type		R410A								
	Refrigerant Charge	kg	6.3	11.3	11.3	10.3	11.3	11.3	11.3	11.3	11.3
	Additional Charge	kg	data book								
Sound Pressure		dBA	61.0	63.0	63.0	60.0	63.0	63.0	63.0	63.0	63.0
Sound Power		dBA	83.4	85.6	85.6	80.9	85.6	85.6	85.6	85.6	85.6
Piping Limits	Maximum Length	m	165								
	Maximum Vertical Rise	m	data book								
Piping Connections	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Gas	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			550~1430			575~1495			600~1560		
Maximum Number of Connected Indoor Units			64			64			64		

RYYQ-U (50 to 54 hp)

Outdoor Units			RYYQ50U			RYYQ52U			RYYQ54U		
			RYMQ16U	RYMQ16U	RYMQ18U	RYMQ16U	RYMQ18U	RYMQ18U	RYMQ18U	RYMQ18U	RYMQ18U
Capacity	Nominal Cooling	kW	140.40			145.80			151.20		
	Nominal Heating	kW	156.50			163.00			169.50		
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	1240	1240	1240	1240	1240	1240	1240	1240	1240
	Depth	mm	765	765	765	765	765	765	765	765	765
Weight		kg	291	291	308	291	308	308	308	308	308
Air Flow Rate		m^3/sec	4.333	4.333	4.183	4.333	4.183	4.183	4.183	4.183	4.183
External Static Pressure	High	Pa	78	78	78	78	78	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415								
	Running Current	amps	20.6	20.6	23.4	20.6	23.4	23.4	23.4	23.4	23.4
	Starting Current	amps	4								
	Fuse Rating	amps	40	40	40	40	40	40	40	40	40
Refrigerant Circuit	Refrigerant Type		R410A								
	Refrigerant Charge	kg	11.3	11.3	11.7	11.3	11.7	11.7	11.7	11.7	11.7
	Additional Charge	kg	data book								
Sound Pressure		dBA	63.0	63.0	62.0	63.0	62.0	62.0	62.0	62.0	62.0
Sound Power		dBA	85.6	85.6	83.8	85.6	83.8	83.8	83.8	83.8	83.8
Piping Limits	Maximum Length	m	165								
	Maximum Vertical Rise	m	data book								
Piping Connections	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Gas	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			625~1625			650~1690			675~1755		
Maximum Number of Connected Indoor Units			64			64			64		

VRV IV+ heat pump non continuous heating

LOOP BY DAIKIN

For units made and sold in Europe**

ErP 2021 COMPLIANT

Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

RXYQ8-20U

RXYQ-U (8 to 20hp)

Outdoor Units			RXYQ8U	RXYQ10U	RXYQ12U	RXYQ14U	RXYQ16U	RXYQ18U	RXYQ20U
Capacity	Nominal Cooling	kW	22.40	28.00	33.50	40.00	45.00	50.40	56.00
	Nominal Heating	kW	25.00	31.50	37.50	45.00	50.00	56.50	63.00
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765	1685 x 1240 x 765
Weight		kg	198	198	198	275	275	308	308
Air Flow Rate		m^3/sec	2.700	2.917	3.083	3.717	4.333	4.183	4.350
External Static Pressure	High	Pa	78	78	78	78	78	78	78
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415						
	Running Current	amps	8.4	11.5	14.2	17.2	20.6	23.4	29.5
	Starting Current	amps	4						
	Fuse Rating	amps	20	25	32	32	40	40	50
Refrigerant Circuit	Refrigerant Type		R410A						
	Refrigerant Charge	kg	5.9	6.0	6.3	10.3	11.3	11.7	11.8
	Additional Charge	kg	data book						
Sound Pressure		dBA	57.0	57.0	61.0	60.0	63.0	62.0	65.0
Sound Power		dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Piping Limits	Maximum Length	m	165	165	165	165	165	165	165
	Maximum Vertical Rise	m	data book						
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)
	Gas	inch (mm)	3/4 (19.1)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)
Capacity Index Limit			100~260	125~325	150~390	175~455	200~520	225~585	250~650
Maximum Number of Connected Indoor Units			64	64	64	64	64	64	64

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

RXYSCQ4,5,6TV1

RXYSQ4,5,6TV9/TY9

RXYSQ8, 10, 12TY1

LOOP BY DAIKIN

for RXYSQ4,5,6TV9/TY9 units

VRV IV standards:

Variable refrigerant temperature

Customise your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

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

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

Widest range of front blow units on the market

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

Lowest height on the market

Ideal for roof installations

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

Ideal to install below a window on a Balcony

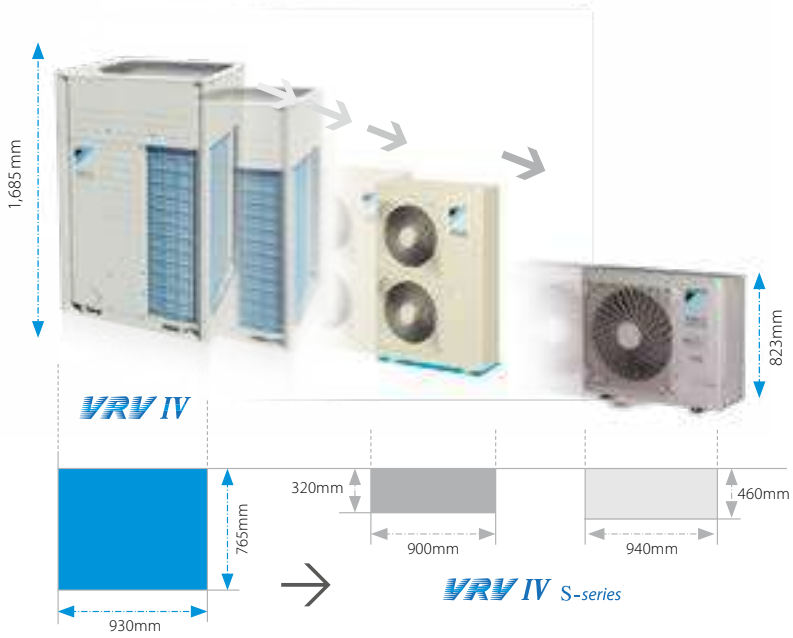
› Daikin VRV IV S-series compact can be installed discretely on a balcony thanks to its compact dimensions. The unit is almost unnoticeable when installed.

Unnoticeable for parapet installation

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

Space saving design

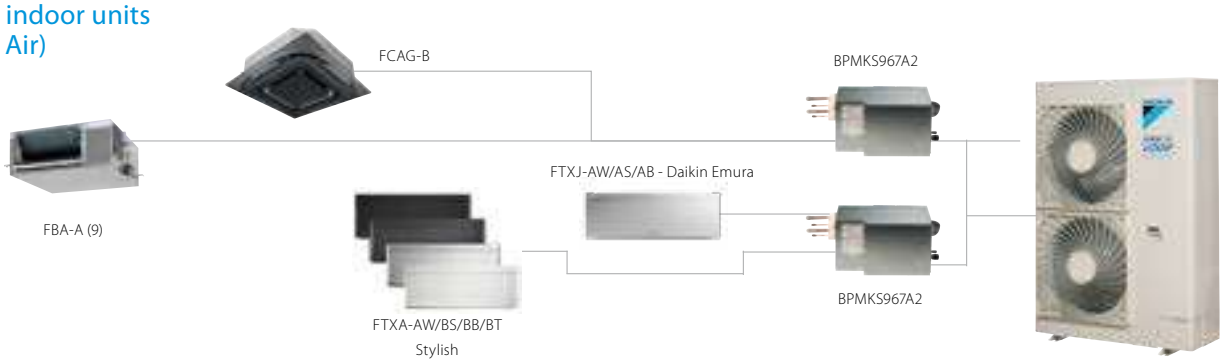
The VRV S-series is slimmer and more compact, resulting in significant savings in installation space.



Wide range of indoor units

Connect VRV units…

… or stylish indoor units (RA and Sky Air)



Connectable stylish indoor units

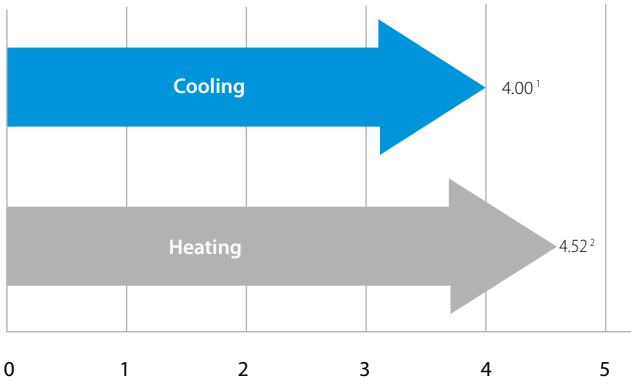
		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				●		●	●	●
Fully flat cassette	FFA-A9			●	●		●	●	
Slim concealed ceiling unit	FDXM-F9			●	●		●	●	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			●	●		●	●	
Daikin Emura - Wall mounted unit	FTXJ-AW/AS/AB		●	●	●		●		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		●	●	●	●	●		
Perfera wall mounted	FTXM-R	●	●	●	●	●	●	●	●
Ceiling suspended unit	FHA-A(9)				●		●	●	●
Perfera floor standing	FVXM-A9		●	●	●		●		
Concealed floors tanding unit	FNA-A9			●	●		●	●	

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.

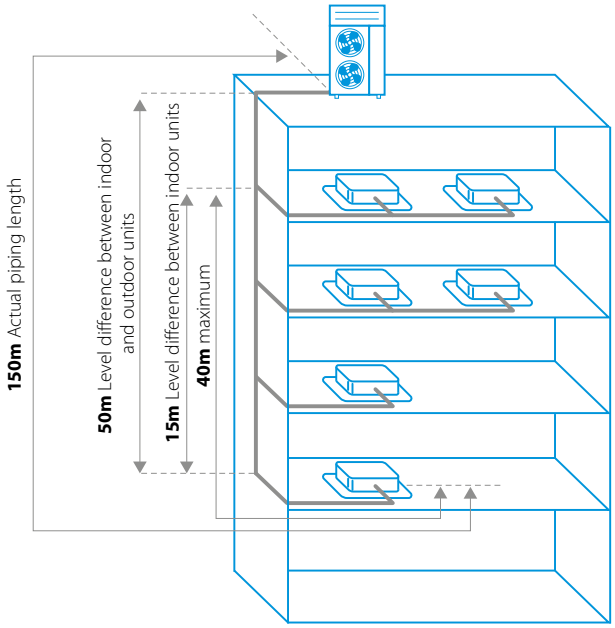
[2] Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



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

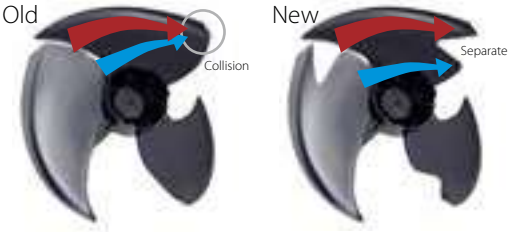
Super aero grille

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%

Improved fan blades



Air streams collide and generate loss

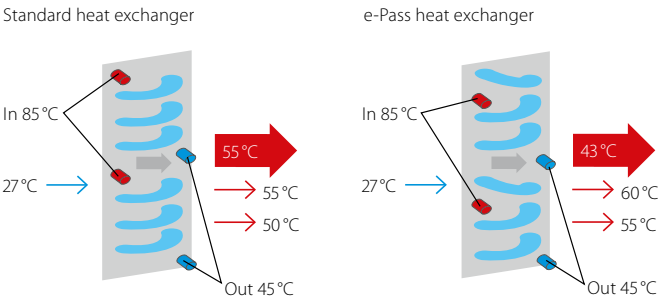
Air streams are smoothed around V-cut and reduces air flow loss

Compressor

Swing type **> no oil separator**
Vane & rotor are unified resulting in:
› Reduced noise level
› Longer compressor life
› Higher efficiency thanks to the absence of internal refrigerant leakage between high and low pressure side

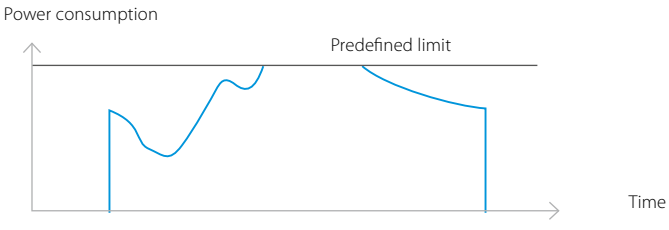
E-Pass heat exchanger

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



I-demand function

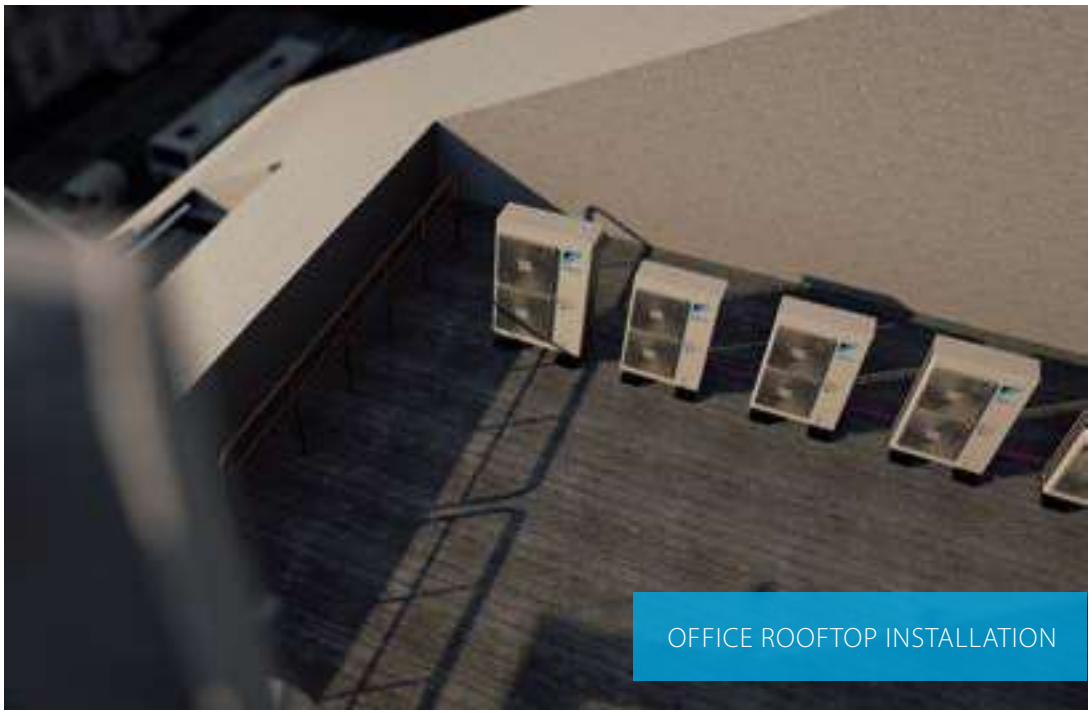
Limit maximum power consumption.
The newly introduced current sensor minimises the difference between the actual power consumption and the predefined power consumption.



PIPE RUN OF 70M ALLOWS INSTALLATION AWAY FROM THE HOUSE

LARGE VILLA APPLICATION

PARAPET INSTALLATION



OFFICE ROOFTOP INSTALLATION

VRV IV S-series compact heat pump

The most compact VRV

- Compact & lightweight single fan design makes the unit almost unnoticeable
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera...
- 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

RXYSCQ-TV1

Only 823mm high!

ErP 2021 COMPLIANT

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-AW/AS/AB		●	●	●		●		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		●	●	●	●	●		
Perfera wall mounted	FTXM-R	●	●	●	●	●	●	●	●
Ceiling suspended unit	FHA-A(9)				●		●	●	●
Perfera floor standing	FVXM-A9		●	●	●		●		
Concealed floors tanding unit	FNA-A9			●	●		●	●	

Outdoor Units			**RXYSCQ4TV1**	**RXYSCQ5TV1**	**RXYSCQ6TV1**
Capacity	Nominal Cooling	kW	12.1	14.0	15.5
	Nominal Heating	kW	12.1	14.0	15.5
ηs,c	Seasonal Efficiency Cooling	%	322.8	303.4	281.3
ηs,h	Seasonal Efficiency Heating	%	182.3	185.1	186
Dimensions	Height x Width x Depth	mm	823 x 940 x 460	823 x 940 x 460	823 x 940 x 460
Weight		kg	89	89	89
Refrigerant Circuit	Refrigerant Type		R410A	R410A	R410A
Sound Pressure (Nom)	Cooling	dBA	51.0	52.0	53.00
Sound Power (Nom)	Cooling	dBA	68.0	69.0	70.00
Maximum No of Connectable Units			8	10	13
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230		
	Running Current	amps	19.0	19.0	23.2
	Fuse Rating	amps	32	32	32
Piping Limits	Total Piping length	m	300	300	300
	Maximum Length	m	70 (90 equivalent)	70 (90 equivalent)	70 (90 equivalent)
	Maximum Vertical Rise	m	30	30	30
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	3/4 (19)
Capacity Index Limit			50~130	62.5~162.5	70~182

VRV IV S-series heat pump

Space saving solution without compromising on efficiency

- By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- Space saving trunk design for flexible installation
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera...
- 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

RXYSQ4-6TV9_TY9

LOOP BY DAIKIN

For units made and sold in Europe*

ErP 2021 COMPLIANT

Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

RXYSQ-TV9 / TY9

Outdoor Units			RXYSQ4TV9	RXYSQ5TV9	RXYSQ6TV9	RXYSQ4TY9	RXYSQ5TY9	RXYSQ6TY9
Capacity	Nominal Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Nominal Heating	kW	12.1	14.0	15.5	12.1	14.0	15.5
ηs,c	Seasonal Efficiency Cooling	%	278.90	270.10	278.00	269.20	260.50	268.30
ηs,h	Seasonal Efficiency Heating	%	171.60	182.90	192.80	154.40	164.50	174.10
Dimensions	Height x Width x Depth	mm	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320
Weight		kg	104	104	104	104	104	104
Air Flow Rate		m³/sec	1.767	1.767	1.767	1.767	1.767	1.767
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230			3 / 50 / 380~415		
	Running Current	amps	14.6	17.9	21.8	5.04	6.15	7.44
	Starting Current	amps	4	4	4	4	4	4
	Fuse Rating	amps	32	32	32	16	16	16
Refrigerant Circuit	Refrigerant Type		R410A					
Sound Pressure (Nom)		dBA	50.0	51.0	51.0	50.0	51.0	51.0
Sound Power (Nom)		dBA	68.0	69.0	70.0	68.0	69.0	70.0
Piping Limits	Maximum Length	m	300	300	300	300	300	300
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	3/4 (19)	5/8 (15.9)	5/8 (15.9)	3/4 (19)
Capacity Index Limit			50 - 130	62.5 - 162.5	70 -182	50 - 130	62.5 - 162.5	70 -182
Maximum Number of Connected Indoor Units			8	10	12	8	10	12

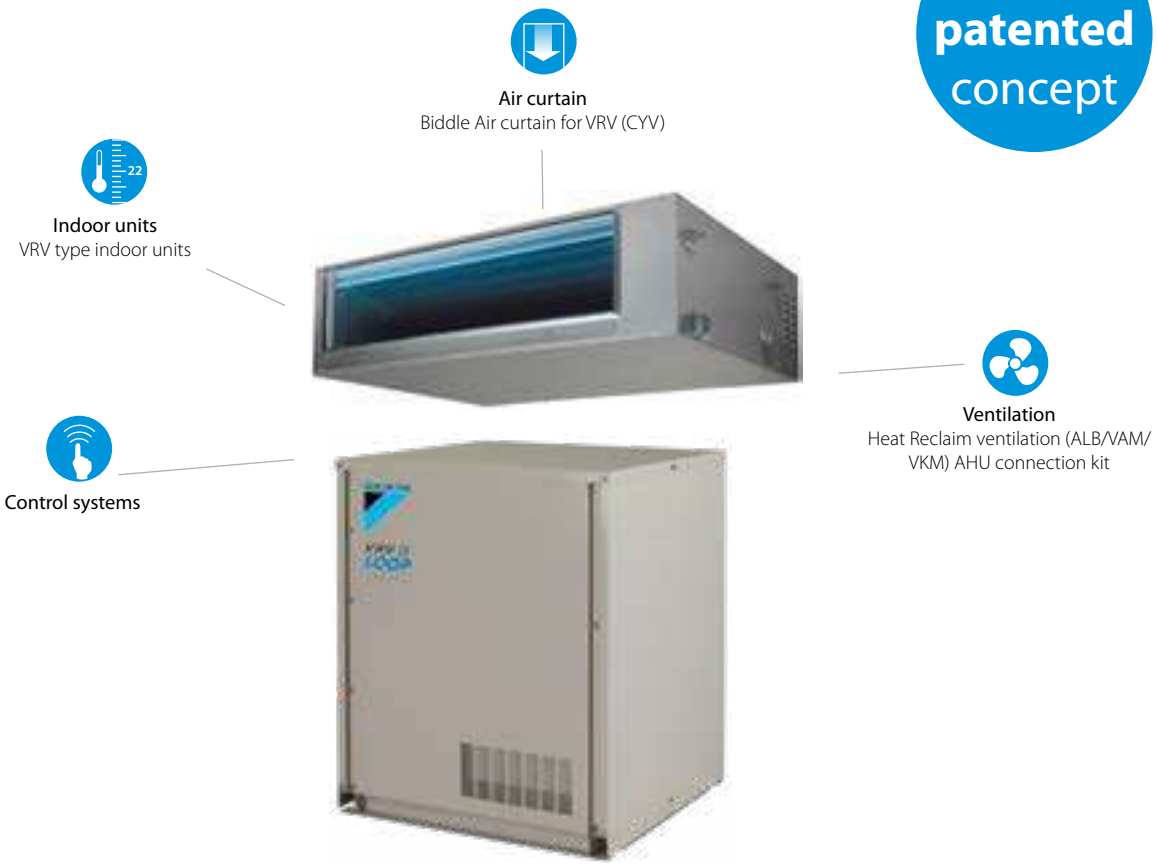
RXYSQ-TY1

Outdoor Units			RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1
Capacity	Nominal Cooling	kW	22.4	28.0	33.5
	Nominal Heating	kW	22.4	28.0	33.5
ηs,c	Seasonal Efficiency Cooling	%	247.30	247.40	256.50
ηs,h	Seasonal Efficiency Heating	%	165.80	162.40	169.60
Dimensions	Height x Width x Depth	mm	1430 x 940x320	1615 x 940 x 460	
Weight		kg	144	175	180
Air Flow Rate		m³/sec	2.333	3.033	3.033
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415		
	Running Current	amps	11.0	12.1	15.0
	Starting Current	amps	4	4	4
	Fuse Rating	amps	25	25	32
Refrigerant Circuit	Refrigerant Type		R410A		
Sound Pressure (Nom)		dBA	55.0	55.0	57.0
Sound Power (Nom)		dBA	73.0	74.0	76.0
Piping Limits	Maximum Length	m	300	300	300
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)
	Gas	inch (mm)	3/4 (19)	7/8 (22.2)	1 1/8 (28.6)
Capacity Index Limit			100 - 260	125 - 325	150 - 390
Maximum Number of Connected Indoor Units			17	21	26

VRV IV i-series heat pump

for indoor installation

unique **patented** concept



LOOP BY DAIKIN

VRV IV standards:

Variable refrigerant temperature

Customise 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

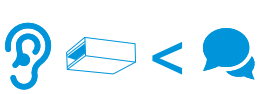
For detailed explanation of these functions refer to VRV iv technologies tab

Invisible

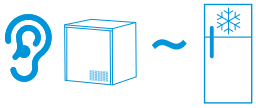
› Suitable for a wider range of properties because outdoor installation is not a factor
› Open for business sooner because getting building permits is simplified
› Seamless integration into the surroundings as only the grille is visible
› No need for a roof installation or back alley installation

Quiet

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



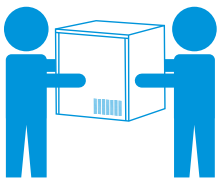
Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

Lightweight parts

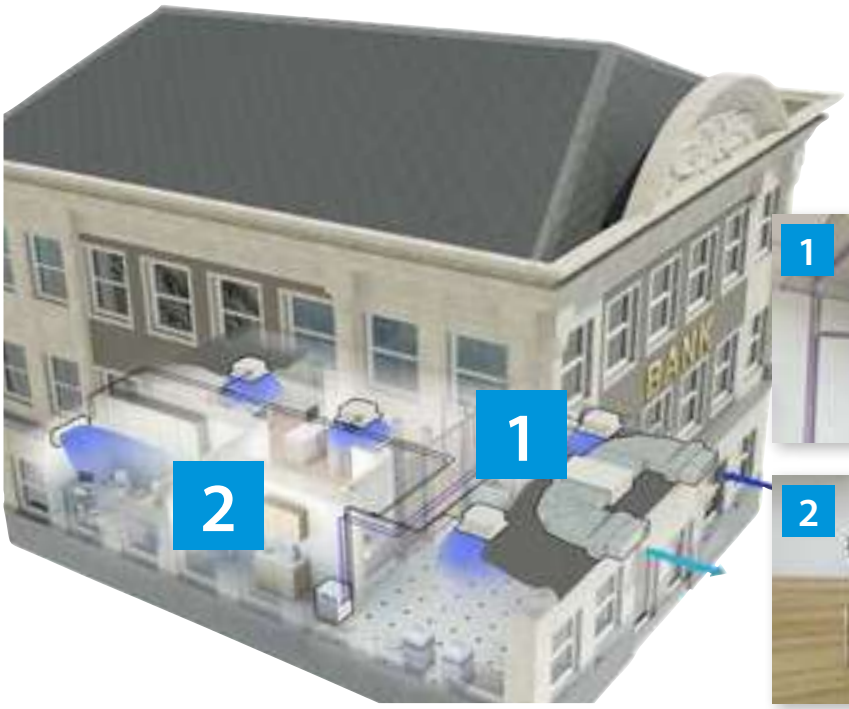
› Can be installed by two people



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.

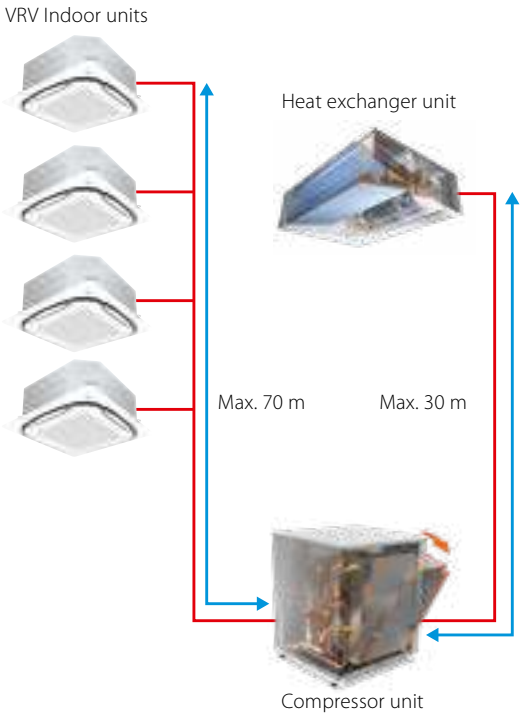
Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



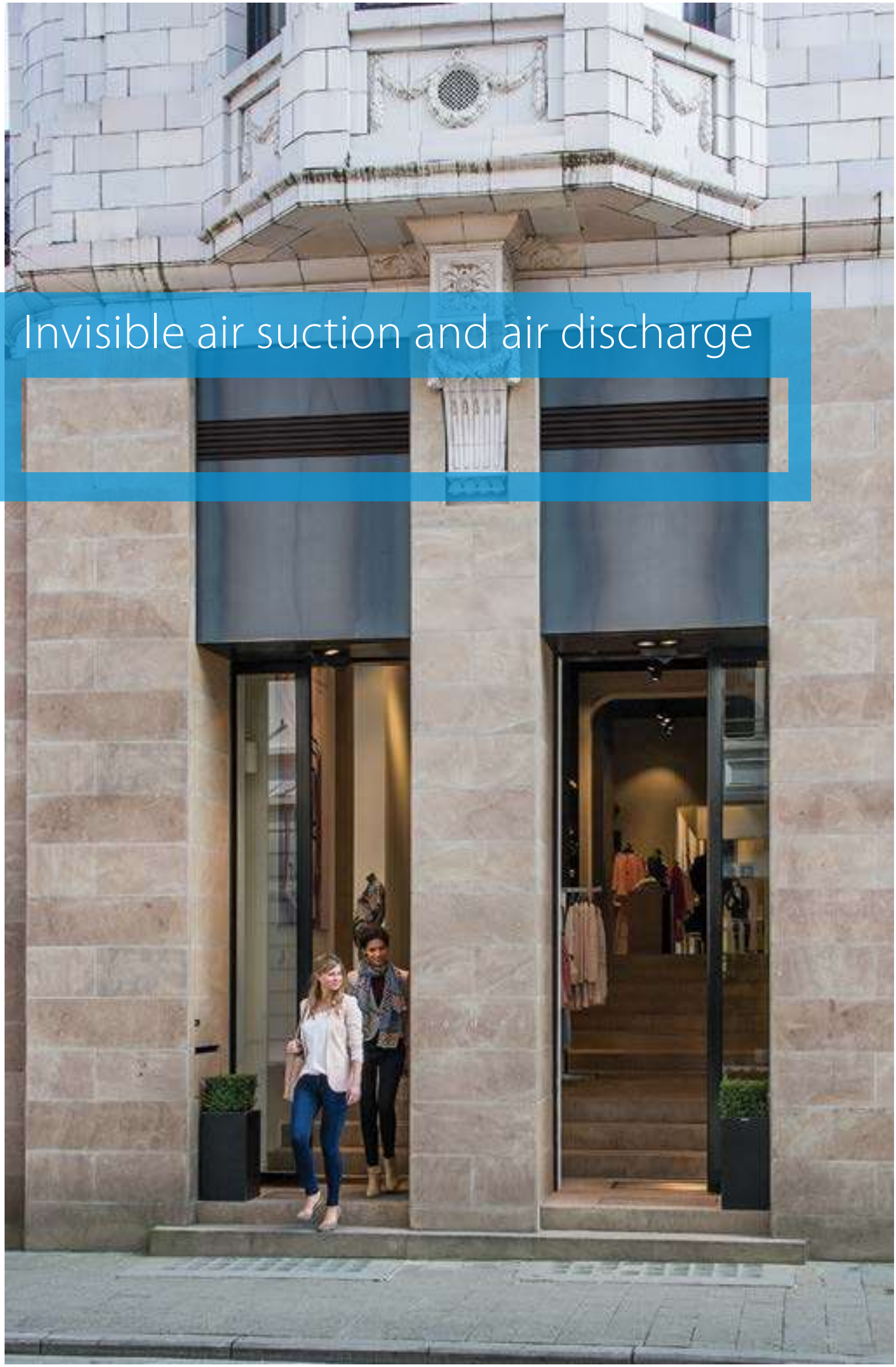
1. The heat exchanger can be installed in a false ceiling space.

2. The compressor is compact and easy to hide. This element can be installed at floor level, in a back office, storage room, technical area or in a kitchen.

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



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



Invisible air suction and air discharge

The problem solver

for many installation issues

Example 1

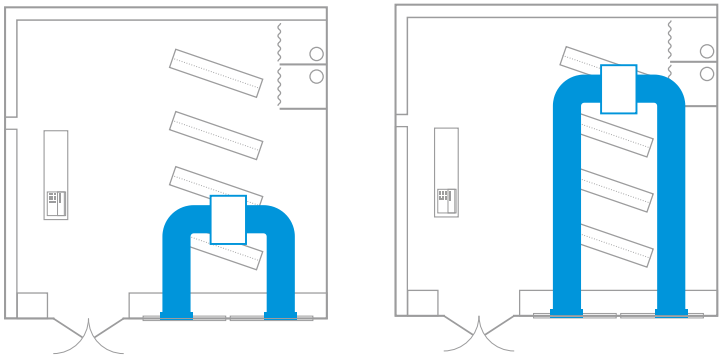
High flexibilty

Install the modules where if fits your customer, not where it is the best fit for the outdoor unit

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

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

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



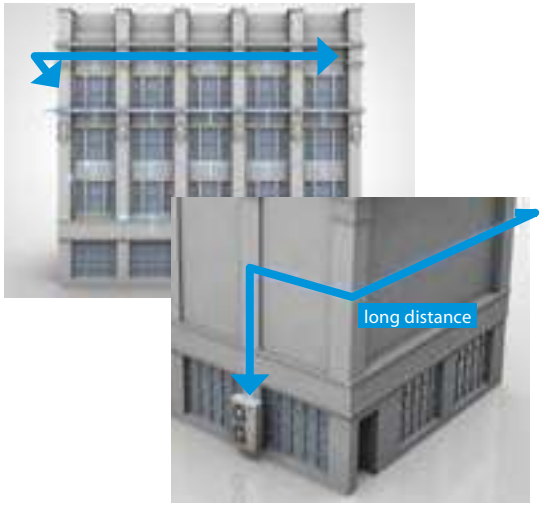
Flexible installation thanks to inverter fans

Example 2

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

Back alley or rooftop needs very long piping lengths
› Long installation time
› Additional cost
› Capacity loss

VRV IV i-series can be installed close to the indoor units
› Quicker installation
› Lower cost
› No capacity loss

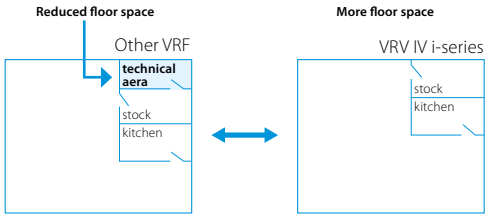


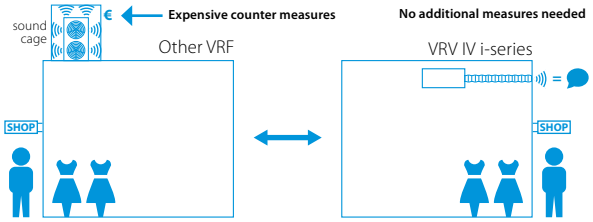
Example 3

No need for bulky and expensive sound countermeasures

To comply with city regulations, 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 regulations 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

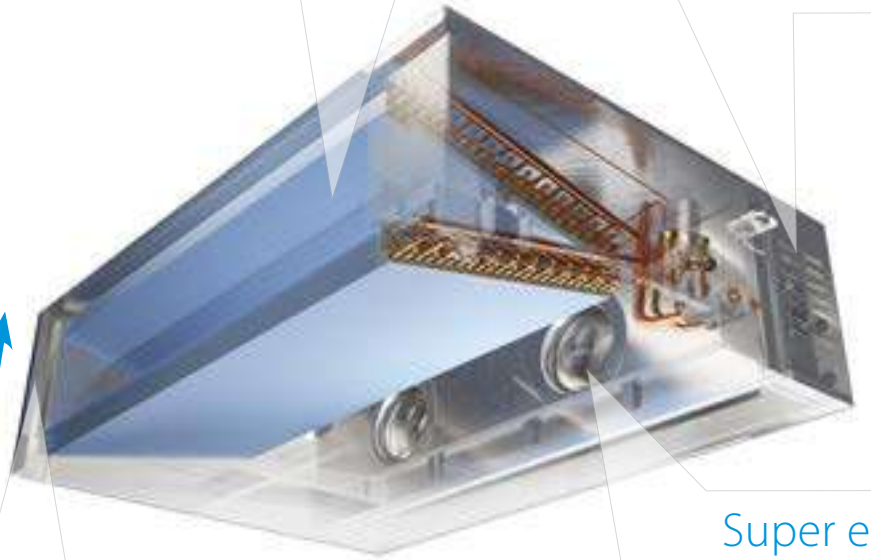
8 patents

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

Super efficient centrifugal fans

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

Standard delivered filter

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

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
› Minimised cold surface to reduce dew formation
› Fast and easy installation

Non welded bottom casing

› Avoids any corrosion risk

Small footprint

› Maximises 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

ErP 2021 COMPLIANT

Already fully compliant to LOT 21 - Tier 2

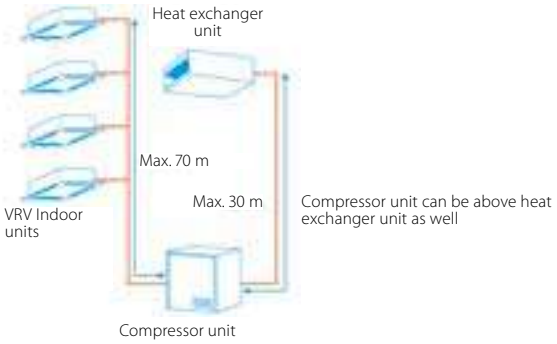
Published data with real-life indoor units

LOOP BY DAIKIN

For units made and sold in Europe*

› 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

SB.RKXYQ5T8

› 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)

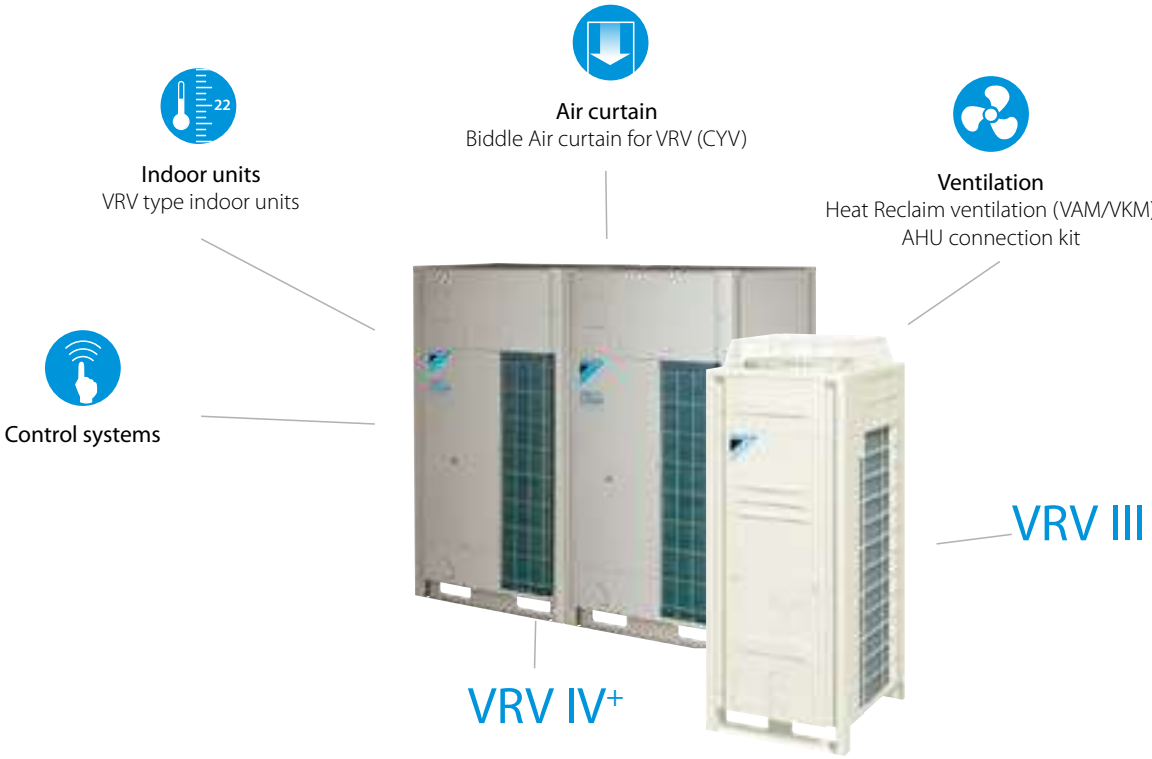
› Small footprint compressor unit (760 x 554 mm) maximising useable floor space

› Connectable to all VRV control systems

Total system			**SB.RKXYQ**	**5T8**	**8T**
Capacity range			HP	5	8
Cooling capacity (nom)		Nom.	kW	14.0	22.4
Heating capacity (nom) / Heating capacity (max)				14.0/16.0	22.4 / 25.0
ηs,c	Seasonal Efficiency Cooling		%	200.10	149.30
ηs,h	Seasonal Efficiency Heating		%	191.10	140.90
Maximum number of connectable indoor units				10	17
Indoor index connection	Min. / Nom. / Max.			62.5 / 125 / 162.5	100 / 200 / 260
Operation range - outdoor air temperature	Cooling	Min.~Max.	°CDB	-5.0 ~ 46.0	
	Heating	Min.~Max.	°CWB	-20.0 ~ 15.5	
	Temperature around casing			5.0 ~ 35.0	
Refrigerant	Type			R-410A	
Piping connections between compressor module (CM) and heat exchanger module (HM)	Liquid	OD	inch (mm)	1/2 (12.7)	1/2 (12.7)
	Gas	OD	inch (mm)	3/4 (19.1)	7/8 (22.2)
	Maximum length		m	30	30
	Max height difference - CM below HM		m	10	10
	Max height difference - CM above HM		m	10	10
Piping connections between compressor module (CM) and indoor units (IU)	Liquid		inch (mm)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	5/8 (15.9)	3/4 (19.1)
	Max total piping length (incl. piping to HM)		m	140	300
	Max length to last IU		m	70 (90 equivalent)	
	Max height difference - CM below IU		m	30	30
	Max height difference - CM above IU		m	30	30
	Max height difference - IU - IU		m	15	15
Heat exchanger module			**RDXYQ**	**5T8**	**8T**
Dimensions	Height x Width x Depth		mm	397 x 1456 x 1044	397 x 1456 x 1044
Weight			kg	95	103
Ducting	Suction size		mm	1200 x 300	1200 x 300
	Discharge size		mm	1200 x 300	1200 x 300
	Max ESP		Pa	60 / 150	60 / 150
	Nom. air flow		m^3/sec	0.917	1.667
Sound pressure level (Cooling)	Nom		dBa	47.0	54.0
Sound Power level (Cooling)	Nom		dBa	77.0	81.0
Drain pipe	OD		mm	32 (VP25)	32 (VP25)
Power supply	Phase / Frequence / Voltage			1~ / 50 Hz / 220-240V	1~ / 50 Hz / 220-240V
Current 50 Hz	Maximum Fuse Amps (MFA)			10	10
Compressor module			**RKXYQ**	**5T8**	**8T**
Dimensions	Height x Width x Depth		mm	701 x 600 x 554	701 x 760 x 554
Weight			kg	79	105
Refrigerant charge			kg	2.0	4.0
Sound pressure level	Nom		dBa	47.0	48.0
Sound power level (cooling)	Nom		dBa	60.0	64.0
Power supply	Phase / Frequence / Voltage			3~ / 50 Hz / 380-415V	3~ / 50 Hz / 380-415V
Current 50 Hz	Maximum Fuse Amps (MFA)			16	20
	Nominal running current (RLA)			5.8	8.6

Replacement VRV

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



LOOP BY DAIKIN

VRV IV Q+ series

Heat pump

Variable refrigerant temperature

Customise 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, R-407C and R-410A systems

These benefits will convince your customer:

Drastically improve your efficiency, comfort and reliability

No disturbance of daily operations

› Reuse of existing pipework results in fast installation
› Plan phases to avoid loss of business
› Replace any VRF system

Lower installation costs

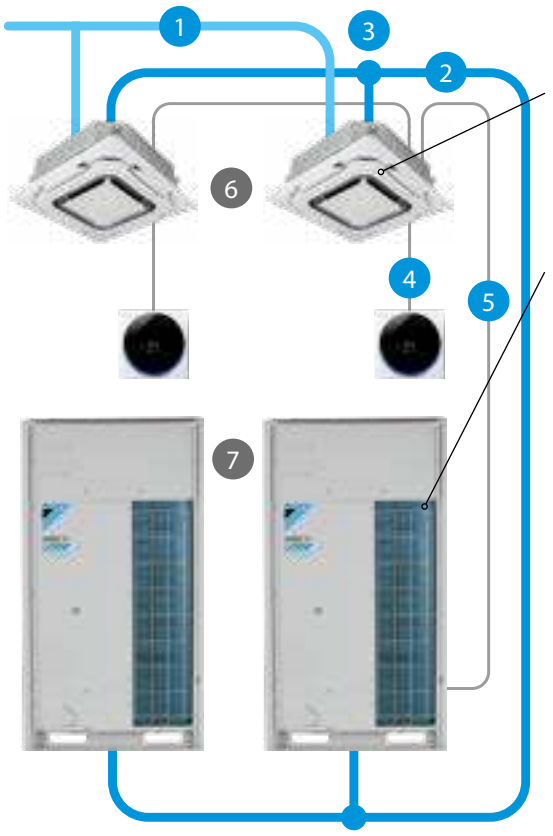
› Shorter installation time
› Use of existing piping and wiring
› Reuse of materials

Lower investment and reduced running costs

› CAPEX: Lower initial investment
› OPEX: Lower energy consumption and maintenance costs
› Keep your business running seamlessly

Higher property value

› Higher property value
› Improved facilities
  • Subsidies
  • Certifications (BREEAM, LEED and WELL)

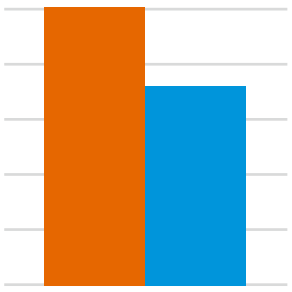


The Daikin upgrade solution:

Replace indoor units (optional)

› Depending on model type and condition the indoor units can be kept.

Replace outdoor units



∨ 31 %
(VRV II) (VRV IV)

31 % less energy used

Umeda Central Building, Osaka, Japan.

Replacement with VRV Q-series in 2006–2009. Capacity up from 1,620 to 2,322 HP while keeping the energy consumption the same!

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.

	VRV-Q, keeping indoor units	**VRV-Q**, replacing indoor units	Completely new installation with standard VRV
Remove outdoor unit	21 %	21 %	21 %
Install new outdoor unit	14 %	14 %	14 %
Clean cooling circuit and leak test	14 %	14 %	14 %
Remove indoor units	–	8 %	8 %
Remove refrigerant pipes and other tasks	–	–	8 %
Install new refrigerant pipes	–	–	14 %
Install new indoor units and other tasks	–	21 %	21 %
Total installation time	49 %	78 %	100 %

Technology insight – Pipe cleaning and automatic refrigerant charging

Pipe cleaning and automatic refrigerant charging ensures a trouble-free operation.

Thanks to the pipe cleaning, possible contamination in the pipes is collected ensuring a trouble-free operation as with a completely new system.

The automatic charging ensures the correct amount of refrigerant is charged, so knowledge of the exact piping layout is not needed!

One touch convenience:
- Measure and charge refrigerant
- 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 realised, 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

RQCEQ712-848P3

RQCEQ-P3 (28.0 to 45.0 kW)

Outdoor Units			RQCEQ280P3		RQCEQ460P3		
			RQEQ140P3	RQEQ140P3	RQEQ140P3	RQEQ140P3	RQEQ180P3
Capacity	Nominal Cooling	kW	28.00		45.00		
	Nominal Heating	kW	32.00		52.00		
Dimensions	Height	mm	1680	1680	1680	1680	1680
	Width	mm	635	635	635	635	635
	Depth	mm	765	765	765	765	765
Weight		kg	175	175	175	175	175
Air Flow Rate		m^3/sec	1.583	1.583	1.583	1.583	1.833
External Static Pressure	High	Pa	78		78		
Electrical Details	Power Supply	Phase	3ph				
		Hz	50				
		V	380~415				
	Running Current	amps	5.5	5.5	5.5	5.5	8.0
	Starting Current	amps	4		4		
	Fuse Rating	amps	16	16	16	16	20
Refrigerant Circuit	Refrigerant Type		R410A				
	Refrigerant Charge	kg	10.3	10.3	10.3	10.3	10.6
	Additional Charge	kg	data book				
Sound Pressure	Nom	dBA	54.0	54.0	54.0	54.0	58.0
Piping Limits	Maximum Length	m	120				
	Maximum Vertical Rise	m	50				
Piping Connections	Liquid	inch (mm)	3/8 (9.5)		1/2 (12.7)		
	Gas	inch (mm)	7/8 (22.2)		1 1/8 (28.6)		
	Discharge	inch (mm)	3/4 (19.1)		7/8 (22.2)		
Capacity Index Limit			140~325		230~520		
Maximum Number of Connected Indoor Units			21		34		

RQCEQ-P3 (50.0 to 63.6 kW)

Outdoor Units			RQCEQ500P3			RQCEQ540P3		
			RQEQ140P3	RQEQ180P3	RQEQ180P3	RQEQ180P3	RQEQ180P3	RQEQ180P3
Capacity	Nominal Cooling	kW	50.00			54.00		
	Nominal Heating	kW	56.00			60.00		
Dimensions	Height	mm	1680	1680	1680	1680	1680	1680
	Width	mm	635	635	635	635	635	635
	Depth	mm	765	765	765	765	765	765
Weight		kg	175	175	175	175	175	175
Air Flow Rate		m^3/sec	1.583	1.833	1.833	1.833	1.833	1.833
Electrical Details	Power Supply	Phase	3ph					
		Hz	50					
		V	380~415					
	Running Current	amps	5.5	8.0	8.0	8.0	8.0	8.0
	Starting Current	amps	4					
	Fuse Rating	amps	16	20	20	20	20	20
Refrigerant Circuit	Refrigerant Type		R410A					
	Refrigerant Charge	kg	10.3	10.6	10.6	10.6	10.6	10.6
	Additional Charge	kg	data book					
Sound Pressure	Nom	dBA	54.0	58.0	58.0	58.0	58.0	58.0
Piping Limits	Maximum Length	m	120					
	Maximum Vertical Rise	m	50					
Piping Connections	Liquid	inch (mm)	5/8 (15.9)			5/8 (15.9)		
	Gas	inch (mm)	1 1/8 (28.6)			1 1/8 (28.6)		
	Discharge	inch (mm)	7/8 (22.2)			7/8 (22.2)		
Capacity Index Limit			250~585			270~650		
Maximum Number of Connected Indoor Units			39			43		

- 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)

ErP 2021 COMPLIANT

Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

RQCEQ-P3 (71.2 to 74.4 kW)

Outdoor Units			RQCEQ712P3				RQCEQ744P3			
			RQEQ140P3	RQEQ180P3	RQEQ180P3	RQEQ212P3	RQEQ140P3	RQEQ180P3	RQEQ212P3	RQEQ212P3
Capacity	Nominal Cooling	kW	71.20				74.40			
	Nominal Heating	kW	78.40				80.80			
Dimensions	Height	mm	1680	1680	1680	1680	1680	1680	1680	1680
	Width	mm	635	635	635	635	635	635	635	635
	Depth	mm	765	765	765	765	765	765	765	765
Weight		kg	175	175	175	179	175	175	179	179
Air Flow Rate		m^3/sec	1.583	1.833	1.833	1.833	1.583	1.833	1.833	1.833
Electrical Details	Power Supply	Phase	3ph							
		Hz	50							
		V	350~415							
	Running Current	amps	5.5	8.0	8.0	11.5	5.5	8.0	11.5	11.5
	Starting Current	amps	4				4			
	Fuse Rating	amps	16	20	20	25	16	20	25	25
Refrigerant Circuit	Refrigerant Type		R410A							
	Refrigerant Charge	kg	10.3	10.6	10.6	11.2	10.3	10.6	11.2	11.2
	Additional Charge	kg	data book							
Sound Pressure	Nom	dBA	54.0	58.0	58.0	60.0	54.0	58.0	60.0	60.0
Piping Limits	Maximum Length	m	120							
	Maximum Vertical Rise	m	50							
Piping Connections	Liquid	inch (mm)	5/8 (15.9)				3/4 (19.1)			
	Gas	inch (mm)	1 1/8 (28.6)				1 3/8 (34.9)			
	Discharge	inch (mm)	1 (25)				1 (25)			
Capacity Index Limit			356~780				372~845			
Maximum Number of Connected Indoor Units			52				56			

RQCEQ-P3 (81.6 to 84.8 kW)

Outdoor Units			RQCEQ816P3			
			RQEQ180P3	RQEQ212P3	RQEQ212P3	RQEQ212P3
Capacity	Nominal Cooling	kW	81.60			
	Nominal Heating	kW	87.20			
Dimensions	Height	mm	1680	1680	1680	1680
	Width	mm	635	635	635	635
	Depth	mm	765	765	765	765
Weight		kg	175	179	179	179
Air Flow Rate		m^3/sec	1.833	1.833	1.833	1.833
Electrical Details	Power Supply	Phase	3ph			
		Hz	50			
		V	380~415			
	Running Current	amps	8.0	11.5	11.5	11.5
	Starting Current	amps	4			
	Fuse Rating	amps	20	25	25	25
Refrigerant Circuit	Refrigerant Type		R410A			
	Refrigerant Charge	kg	10.6	11.2	11.2	11.2
	Additional Charge	kg	data book			
Sound Pressure	Nom	dBA	58.0	60.0	60.0	60.0
Piping Limits	Maximum Length	m	120			
	Maximum Vertical Rise	m	50			
Piping Connections	Liquid	inch (mm)	3/4 (19.1)			
	Gas	inch (mm)	1 3/8 (34.9)			
	Discharge	inch (mm)	1 1/8 (28.6)			
Capacity Index Limit			408~910			
Maximum Number of Connected Indoor Units			60			

RXYQQ-U

Replacement VRV, heat pump

LOOP BY DAIKIN

For units made and sold in Europe*

RXYQQ8-20U

RXYQQ22-36U

RXYQQ-U (up to 20 hp)

Outdoor Units			RXYQQ8U	RXYQQ10U	RXYQQ12U	RXYQQ14U	RXYQQ16U	RXYQQ18U	RXYQQ20U
Capacity	Nominal Cooling	kW	22.40	28.00	33.50	40.00	45.00	50.00	56.00
	Nominal Heating	kW	25.00	31.50	37.50	45.00	50.00	56.00	63.00
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	930	930	1240	1240	1240	1240
	Depth	mm	765	765	765	765	765	765	765
Weight		kg	198	198	198	275	275	308	308
Air Flow Rate		m^3/sec	2.700	2.917	3.083	3.717	3.883	4.183	4.350
External Static Pressure	High	Pa	78						
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415						
	Running Current	amps	8.4	11.5	14.2	17.2	20.6	23.4	29.5
	Starting Current	amps	4						
	Fuse Rating	amps	20	25	32	32	40	40	50
Refrigerant Circuit	Refrigerant Type		R410A						
	Refrigerant Charge	kg	5.9	6.0	6.3	10.3	11.3	11.7	11.8
	Additional Charge	kg	data book						
Sound Pressure	Nom	dBA	57.0	57.0	61.0	60.0	63.0	62.0	65.0
Sound Power	Nom	dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Piping Limits	Maximum Length	m	120						
	Maximum Vertical Rise	m	50						
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)
	Gas	inch (mm)	3/4 (19.1)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)
Capacity Index Limit			100~260	125~325	150~390	175~455	200~520	225~585	250~650
Maximum Number of Connected Indoor Units			64	64	64	64	64	64	64

RXYQQ-U (22 to 28 hp)

Outdoor Units			RXYQQ22U		RXYQQ24U		RXYQQ26U		RXYQQ28U	
			RXYQQ10U	RXYQQ12U	RXYQQ8U	RXYQQ16U	RXYQQ12U	RXYQQ14U	RXYQQ12U	RXYQQ16U
Capacity	Nominal Cooling	kW	61.50		67.40		73.50		78.50	
	Nominal Heating	kW	69.00		75.00		82.50		87.50	
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	930	930	1240	930	1240	930	1240
	Depth	mm	765	765	765	765	765	765	765	765
Weight		kg	198	198	198	275	198	275	198	275
Air Flow Rate		m^3/sec	2.917	3.083	2.100	3.883	3.083	3.717	3.083	3.883
External Static Pressure	High	Pa	78							
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Running Current	amps	11.5	14.2	8.4	20.6	14.2	17.2	14.2	20.6
	Starting Current	amps	4							
	Fuse Rating	amps	25	32	20	40	32	32	32	40
Refrigerant Circuit	Refrigerant Type		R410A							
	Refrigerant Charge	kg	6.0	6.3	5.29	11.3	6.3	10.3	6.3	11.3
	Additional Charge	kg	data book							
Sound Pressure	Nom	dBA	57.0	61.0	57.0	63.0	61.0	60.0	61.0	63.0
Sound Power	Nom	dBA	79.1	83.4	78.0	85.6	83.4	80.9	83.4	85.6
Piping Limits	Maximum Length	m	120							
	Maximum Vertical Rise	m	50							
Piping Connections	Liquid	inch (mm)	5/8 (15.9)		5/8 (15.9)		3/4 (19.1)		3/4 (19.1)	
	Gas	inch (mm)	1 1/8 (28.6)		1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)	
Capacity Index Limit			275~715		300~780		325~845		350~910	
Maximum Number of Connected Indoor Units			64		64		64		64	

Replacement VRV, heat pump

LOOP BY DAIKIN

For units made and sold in Europe*

RXYQQ22-36U

RXYQQ38-42U

RXYQQ-U (30 to 36 hp)

Outdoor Units			RXYQQ30U		RXYQQ32U		RXYQQ34U		RXYQQ36U	
			RXYQQ12U	RXYQQ18U	RXYQQ16U	RXYQQ16U	RXYQQ16U	RXYQQ18U	RXYQQ16U	RXYQQ20U
Capacity	Nominal Cooling	kW	83.50		90.00		95.00		101.00	
	Nominal Heating	kW	93.50		100.00		106.00		113.00	
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	1240	1240	1240	1240	1240	1240	1240
	Depth	mm	765	765	765	765	765	765	765	765
Weight		kg	198	308	275	275	275	308	275	308
Air Flow Rate		m³/sec	3.083	4.183	3.883	3.883	3.883	4.183	3.883	4.350
External Static Pressure	High	Pa	78							
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Running Current	amps	14.2	23.4	20.6	20.6	20.6	23.4	20.6	29.5
	Starting Current	amps	4							
	Fuse Rating	amps	32	40	40	40	40	40	40	50
Refrigerant Circuit	Refrigerant Type		R410A							
	Refrigerant Charge	kg	6.3	11.7	11.3	11.3	11.3	11.7	11.3	11.8
	Additional Charge	kg	data book							
Sound Pressure	Nom	dBA	61.0	62.0	63.0	63.0	63.0	62.0	63.0	65.0
Sound Power	Nom	dBA	83.4	83.8	85.6	85.6	85.6	83.8	85.6	87.9
Piping Limits	Maximum Length	m	120							
	Maximum Vertical Rise	m	50							
Piping Connections	Liquid	inch (mm)	3/4 (19.1)		3/4 (19.1)		3/4 (19.1)		3/4 (19.1)	
	Gas	inch (mm)	1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)		1 5/8 (41.3)	
Capacity Index Limit			375~975		400~1040		425~1105		450~1170	
Maximum Number of Connected Indoor Units			64		64		64		64	

RXYQQ-U (38 to 42 hp)

Outdoor Units			RXYQQ38U			RXYQQ40U			RXYQQ42U		
			RXYQQ8U	RXYQQ10U	RXYQQ20U	RXYQQ10U	RXYQQ12U	RXYQQ18U	RXYQQ10U	RXYQQ16U	RXYQQ16U
Capacity	Nominal Cooling	kW	106.40			111.50			118.00		
	Nominal Heating	kW	119.50			125.00			131.50		
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	930	1240	930	930	1240	930	1240	1240
	Depth	mm	765	765	765	765	765	765	765	765	765
Weight		kg	198	198	308	198	198	308	198	275	275
Air Flow Rate		m³/sec	2.100	2.917	4.350	2.917	3.083	4.183	2.917	3.883	3.883
External Static Pressure	High	Pa	78								
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415								
	Running Current	amps	8.4	11.5	29.5	11.5	14.2	23.4	11.5	20.6	20.6
	Starting Current	amps	4								
	Fuse Rating	amps	20	25	50	25	32	40	25	40	40
Refrigerant Circuit	Refrigerant Type		R410A								
	Refrigerant Charge	kg	5.9	6.0	11.8	6.0	6.3	11.7	6.0	11.3	11.3
	Additional Charge	kg	data book								
Sound Pressure	Nom	dBA	57.0	57.0	65.0	57.0	61.0	62.0	57.0	63.0	63.0
Sound Power	Nom	dBA	78.0	79.1	87.9	79.1	83.4	83.8	79.1	85.6	85.6
Piping Limits	Maximum Length	m	120								
	Maximum Vertical Rise	m	50								
Piping Connections	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Gas	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
Capacity Index Limit			475~1235			500~1300			525~1365		
Maximum Number of Connected Indoor Units			64			64			64		

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)

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

Widest range of BS boxes for the fastest installation

LOOP BY DAIKIN

VRV IV standards:

Variable refrigerant temperature

Customise 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

Unique zero heat dissipation principle

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

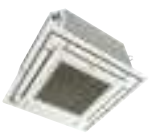
Easier commissioning & customisation

› 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

Total solution

Daikin Emura
wall mounted unit

FTXA-AW/BS/BB/BT
Stylish



Fully flat cassette

Biddle air curtain

Air handling unit for ventilation

Low temperature hydrobox

High temperature hydrobox

With all existing standard functions

Variable Refrigerant Temperature

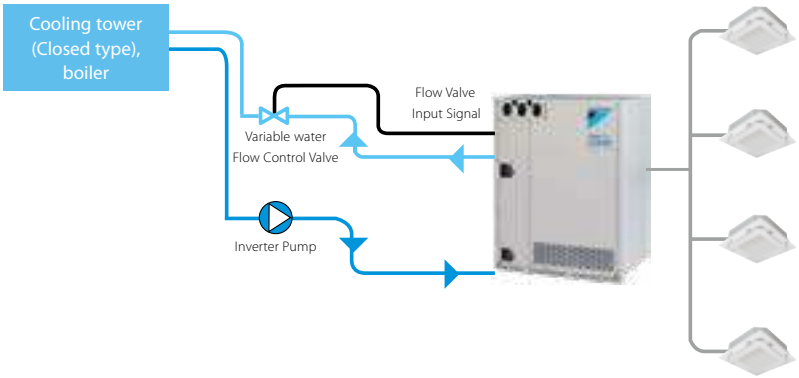
VRV IV W+ series

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

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

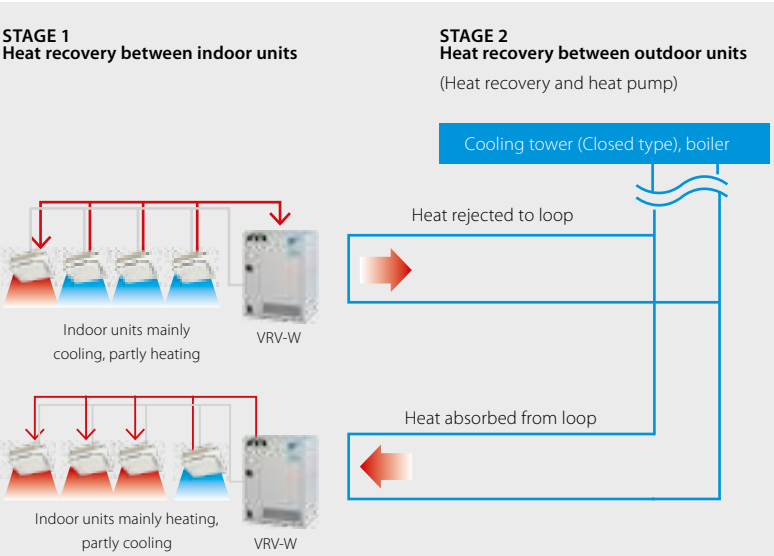
BS 4 Q14 A

BS 6, 8 Q14 A

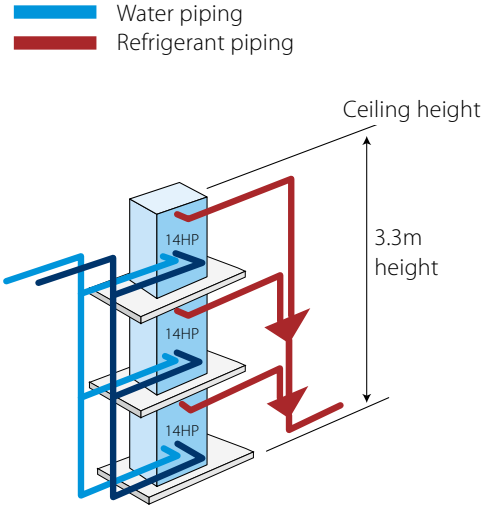
BS 10, 12 Q14 A

BS 16 Q14 A

2-stage heat recovery



Stacked configuration



Crystal Tower

BREEAM Design Phase: Excellent rating

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

› A combination of VRV, Sky Air and Applied systems ensuring all offices and common areas are fully air conditioned.

› Water-cooled VRV as the main contributor to total HVAC energy efficiency due to its two-stage heat recovery system.

› Flexibility: individual thermal control and comfort with VRV on each floor and space.

› Problem-free connection between Daikin units and the LonWorks BMS system ensures the building's total energy consumption is properly monitored and controlled.

Location

48 Lancu de Hunedoara Boulevard
Bucharest Romania

Building details

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

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

step 1

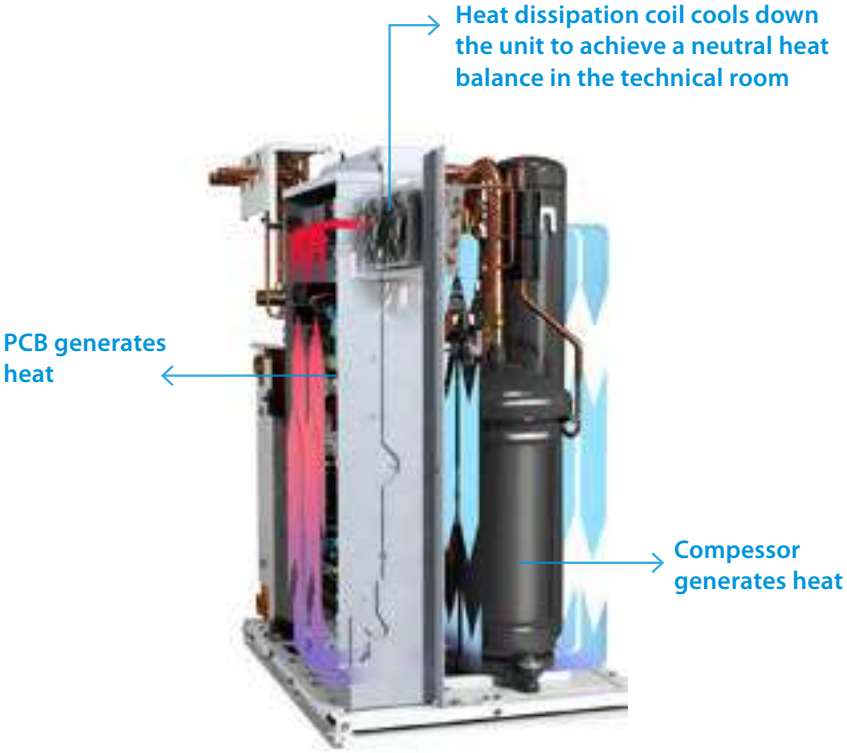
step 2

Rotating switchbox

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

Variable Refrigerant Temperature

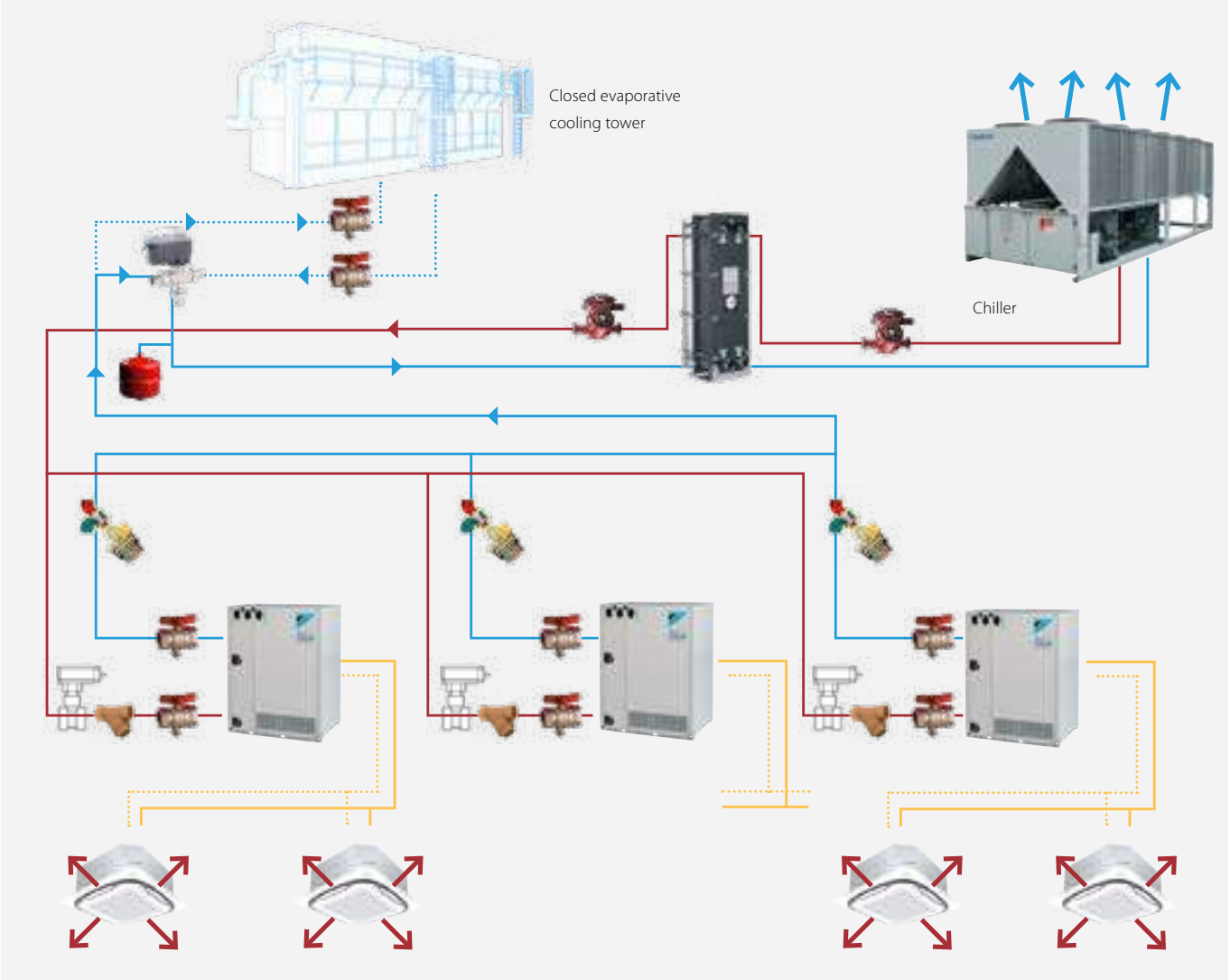
› VRV configurator

› Seven segment

Application

example

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



Expansion tank

Circulator Pump

Flow valve
or flow control valve

Stop valve

Cooling mode
Heating mode
Refrigerant flow

Strainer

Heat exchanger

Flow switch

Three way valve

Benefits of this setup

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

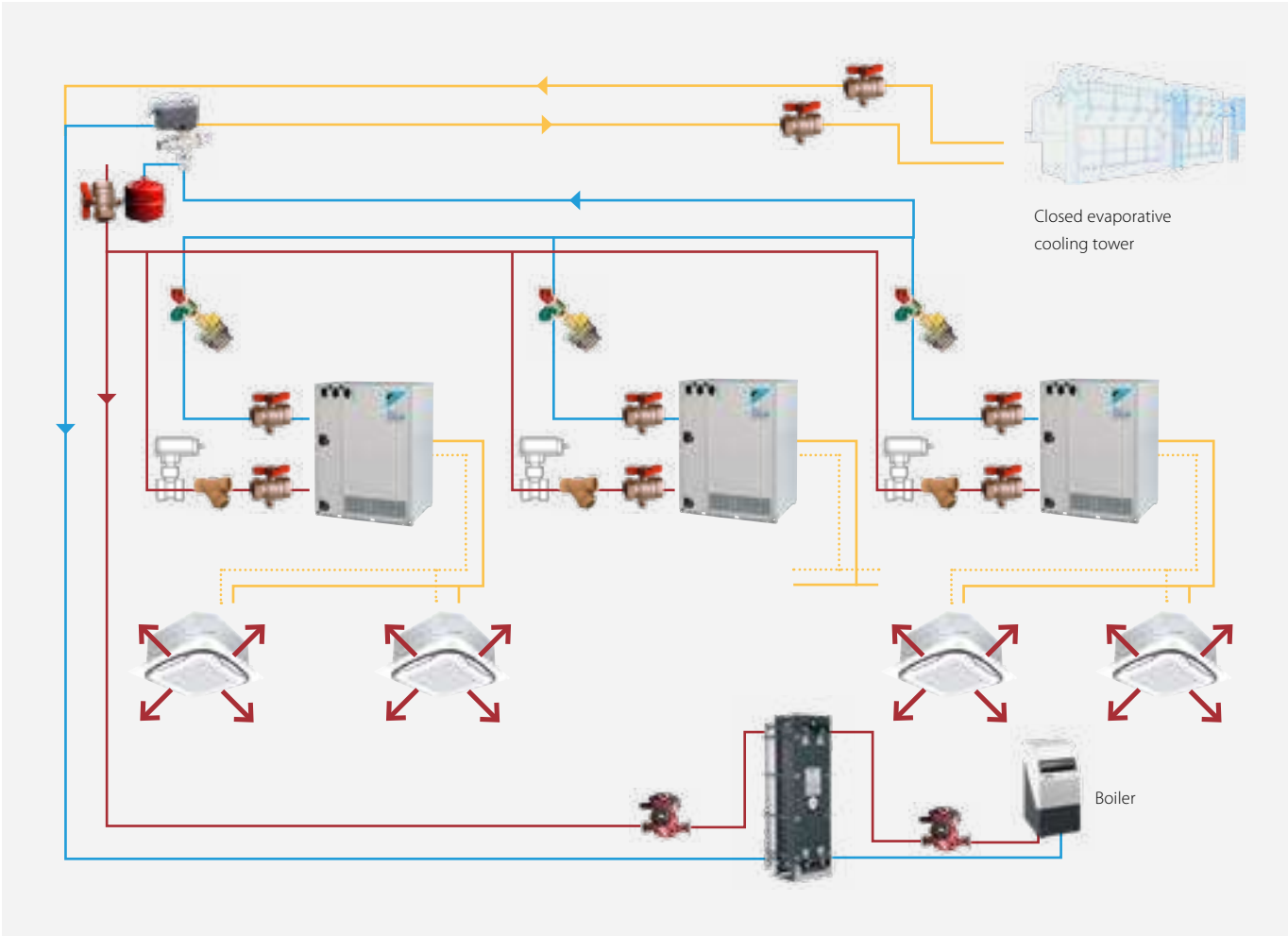
When to use this set-up?

› 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.

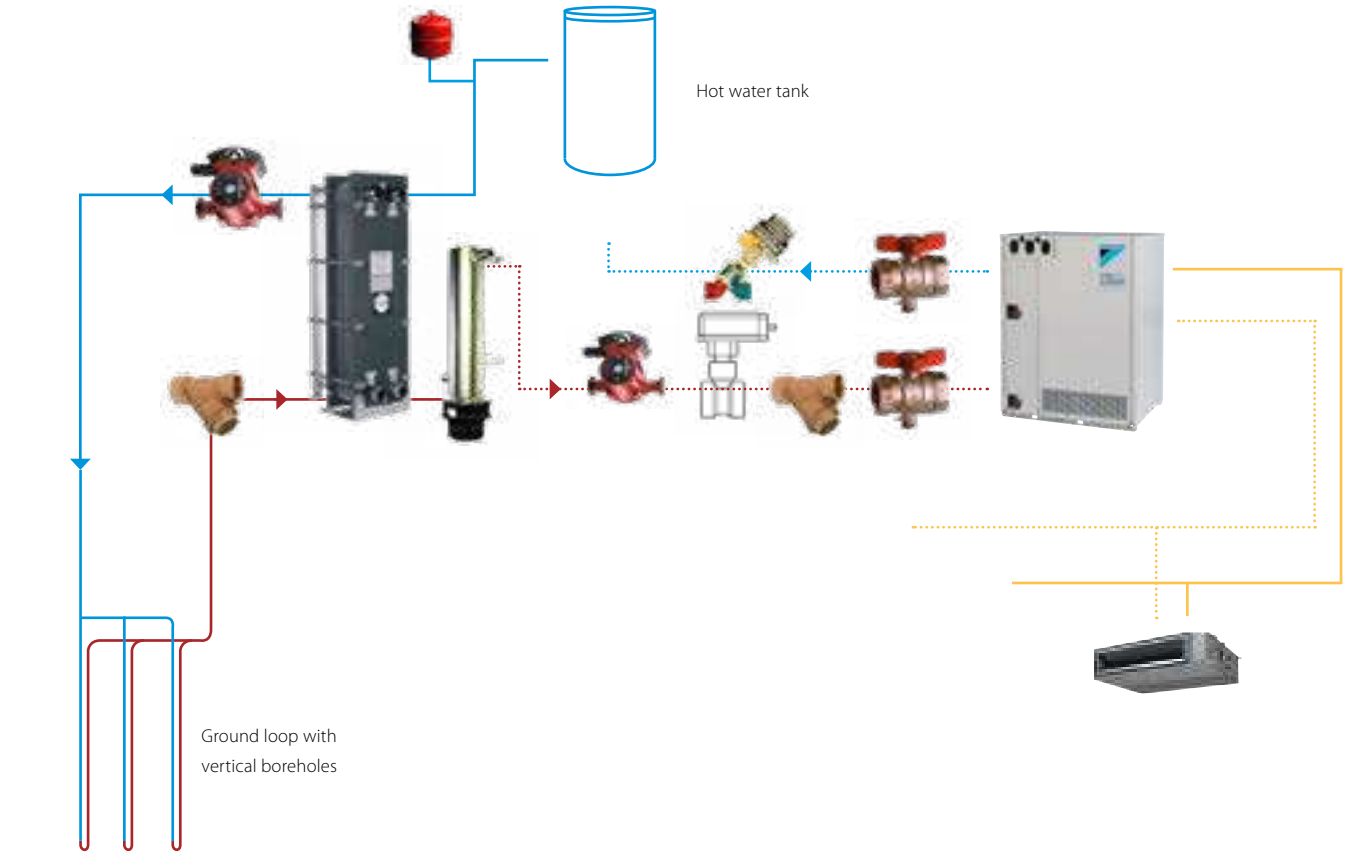
When to use this set-up?

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

Application

example

Geothermal operation



Expansion tank
Liquid heater
Strainer
Circulator Pump
Buffer tank
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

› 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 this set-up?

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

Ground loop

Examples

Open system

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

Conditions:
› At 20 m depth water has a constant temperature of 10°C through the year
› Surface water cools down to 5°C during winter

✓ Can be the most economical type of geothermal system

✓ Constant ground water temperature has positive impact on heat pump efficiency

× Risk to damage system components because of water quality → a secondary loop might be required to protect the heat exchanger

× Water should be tested for acidity, mineral content, organic content and corosiveness:

× In many areas open systems are prohibited due to environmental concerns

Closed system

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

Vertical system conditions
› Typical depth: 30-140 m. Below 15 m, the temperature of the ground is constant around 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

ErP 2021 COMPLIANT
Already fully compliant to LOT 21 - Tier 2

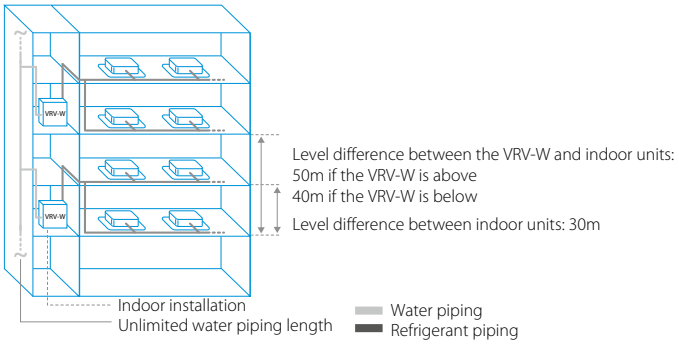
Published data with real-life indoor units

LOOP BY DAIKIN
For units made and sold in Europe*

R-410A

Ideal for high rise buildings, using water as heat source

- Environmental conscious solution: reduced CO_2 emmisions thanks to the use of geothermal energy as a renewable energy source and typical lower refrigerant levels making it ideal to comply with EN378
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units, Biddle air curtains and hot water
- Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexiblity
- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- 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
- Two analogue input signals allowing external control of ON-OFF, operation mode, error signal, …
- Contains all standard VRV features



Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXJ-AW/AS/AB	•	•	•		•		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	FTXM-R	•	•	•	•	•	•	•
Perfera floor standing NEW	FVXM-A9	•	•	•		•		

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

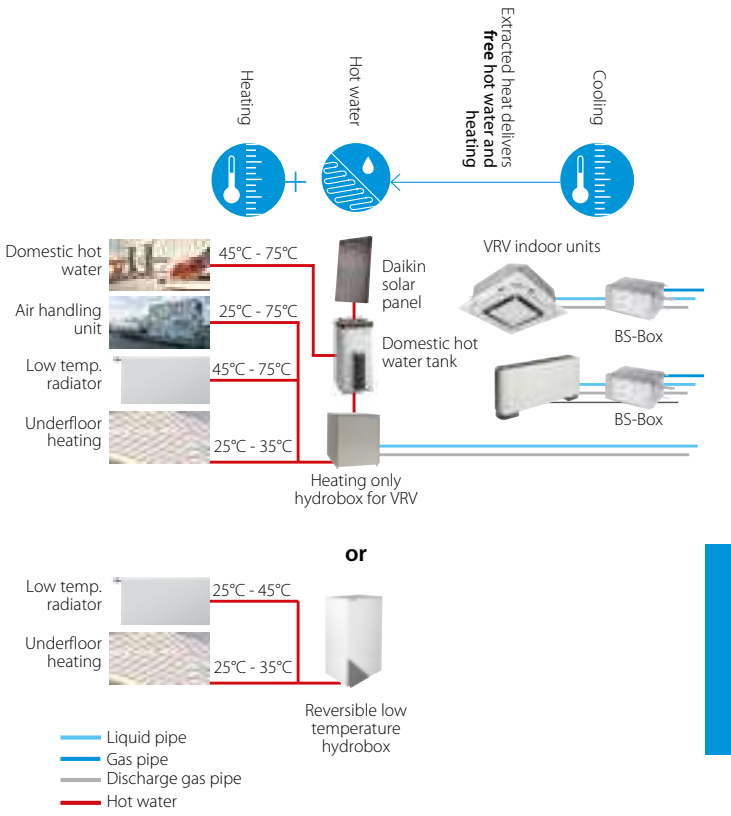
Heat Pump and Heat Recovery
RWEYQ-T9 (8 to 18 hp)

Outdoor Units			RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ14T9	RWEYQ16T		RWEYQ18T	
							RWEYQ8T9	RWEYQ8T9	RWEYQ8T9	RWEYQ10T9
Capacity	Nominal Cooling	kW	22.4	28.0	33.5	40.0	44.8		50.4	
	Nominal Heating	kW	25.0	31.5	37.5	45.0	50		56.5	
ηs,c	Seasonal Efficiency Cooling	%	326.80	307.80	359.00	330.70	307.6		308.7	
ηs,h	Seasonal Efficiency Heating	%	524.30	465.90	436.00	397.10	459.2		491.1	
Dimensions	Height	mm	980	980	980	980	980	980	980	980
	Width	mm	767	767	767	767	767	767	767	767
	Depth	mm	560	560	560	560	560	560	560	560
Weight		kg	185	185	185	185	185	185	185	185
Electrical Details	Power Supply	Phase /Hz/v	3ph / 50 / 400				3ph / 50 / 400		3ph / 50 / 400	
	Running Current	amps	6.5	9.0	10.0	12.6	6.5	6.5	6.5	9.0
	Starting Current	amps	4	4	4	4	4	4	4	4
	Fuse Rating	amps	25	25	25	25	25	25	25	25
Refrigerant Circuit	Refrigerant Type		R410A				R410A		R410A	
	Refrigerant Charge	kg	7.9	7.9	9.6	9.6	7.9	7.9	7.9	7.9
	Additional Charge	kg	data book				data book		data book	
Sound Power		dBA	65.0	71.0	72.0	74.0	65.0	65.0	65.0	71.0
Sound Pressure		dBA	48.0	50.0	56.0	58.0	48.0	48.0	48.0	50.0
Piping Limits	Maximum Length	m	165	165	165	165	165		165	
	Maximum Vertical Rise	m	50m if outdoor above IU / 40m if outdoor below IU				50m if outdoor above IU / 40m if outdoor below IU		50m if outdoor above IU / 40m if outdoor below IU	
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)		5/8 (15.9)	
	Gas Heat Pump	inch (mm)	3/4 (19.1)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)		1 1/8 (28.6)	
	Gas Heat recovery	inch (mm)	3/4 (19.1)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)		1 1/8 (28.6)	
	Discharge (HR only)	inch (mm)	5/8 (15.9)	3/4 (19.1)		7/8 (22.2)	7/8 (22.2)		7/8 (22.2)	
	Drain	Outlet	14mm OD / 10mm ID per module				14mm OD / 10mm ID per module		14mm OD / 10mm ID per module	
	Water	Inlet & Outlet	ISO 228 - G1 1/4 B External thread - Per module				ISO 228 - G1 1/4 B External thread - Per module		ISO 228 - G1 1/4 B External thread - Per module	
Capacity Index Limit	VRV Indoor units	%	50-130	50-130	50-130	50-130	50-130		50-130	
	HR VRV I/U & HT Hydrobox	%	50-150	50-150	50-150	50-150	50-150		50-150	
Maximum Number of Connected Indoor Units			64	64	64	64	64		64	

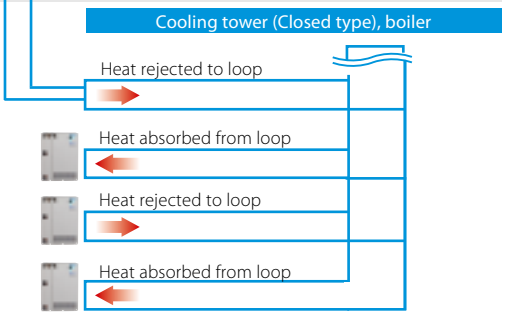
Notes:

Daikin has introduced the new VRV IV W+ Water Cooled condensing unit to complement the rest of the VRV range. The water cooled system has a number of advantages over an air cooled system:
- High efficiencies & suitable for tall multi-storied buildings due to no limitations of water piping length & can be used with open and closed loop ground source systems
- Wide operation range with inlet water temperatures of +10°C to +45°C (possible down to -10°C in heating with the use of glycol) & the system offers greater efficiency in heating mode as there is no defrost cycle required for the water loop

Stage 1 heat recovery between indoor units



Stage 2 heat recovery between outdoor units



* Above system configuration are for illustration purpose only.

Heat Pump and Heat Recovery
RWEYQ-T9 (20 to 28 hp)

Outdoor Units			RWEYQ20T		RWEYQ22T		RWEYQ24T		RWEYQ26T		RWEYQ28T	
			RWEYQ10T9	RWEYQ10T9	RWEYQ10T9	RWEYQ12T9	RWEYQ12T9	RWEYQ12T9	RWEYQ12T9	RWEYQ14T9	RWEYQ14T9	RWEYQ14T9
Capacity	Nominal Cooling	kW	56		61.5		67		73.5		80	
	Nominal Heating	kW	63		69		75		82.5		90	
ηs,c	Seasonal Efficiency Cooling	%	298.10		311.30		342.60		322.50		306.10	
ηs,h	Seasonal Efficiency Heating	%	466.80		447.90		434.50		406.90		387.90	
Dimensions	Height	mm	980	980	980	980	980	980	980	980	980	980
	Width	mm	767	767	767	767	767	767	767	767	767	767
	Depth	mm	560	560	560	560	560	560	560	560	560	560
Weight		kg	185	185	185	185	185	185	185	185	185	185
Electrical Details	Power Supply	Phase /Hz/v	3ph / 50 / 400		3ph / 50 / 400		3ph / 50 / 400		3ph / 50 / 400		3ph / 50 / 400	
	Running Current	amps	9	9	9	10	10	10	10	12.6	12.6	12.6
	Starting Current	amps	4	4	4	4	4	4	4	4	4	4
	Fuse Rating	amps	25	25	25	25	25	25	25	25	25	25
Refrigerant Circuit	Refrigerant Type		R410A		R410A		R410A		R410A		R410A	
	Refrigerant Charge	kg	7.9	7.9	7.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6
	Additional Charge	kg	data book		data book		data book		data book		data book	
Sound Power		dBA	71.0	71.0	71.0	72.0	72.0	72.0	72.0	74.0	74.0	74.0
Sound Pressure		dBA	50.0	50.0	50.0	56.0	56.0	56.0	56.0	58.0	58.0	58.0
Piping Limits	Maximum Length	m	165		165		165		165		165	
	Maximum Vertical Rise	m	50m if outdoor above IU / 40m if outdoor below IU		50m if outdoor above IU / 40m if outdoor below IU		50m if outdoor above IU / 40m if outdoor below IU		50m if outdoor above IU / 40m if outdoor below IU		50m if outdoor above IU / 40m if outdoor below IU	
Piping Connections	Liquid	inch (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		3/4 (19.1)		3/4 (19.1)	
	Gas Heat Pump	inch (mm)	1 1/8 (28.6)		1 1/8 (28.6)		1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)	
	Gas Heat recovery	inch (mm)	1 1/8 (28.6)		1 1/8 (28.6)		1 3/8 (34.9)		1 3/8 (34.9)		1 3/8 (34.9)	
	Discharge (HR only)	inch (mm)	1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)		1 1/8 (28.6)	
	Drain	Outlet	14mm OD / 10mm ID per module		14mm OD / 10mm ID per module		14mm OD / 10mm ID per module		14mm OD / 10mm ID per module		14mm OD / 10mm ID per module	
	Water	Inlet & Outlet	ISO 228 - G1 1/4 B External thread - Per module		ISO 228 - G1 1/4 B External thread - Per module		ISO 228 - G1 1/4 B External thread - Per module		ISO 228 - G1 1/4 B External thread - Per module		ISO 228 - G1 1/4 B External thread - Per module	
Capacity Index Limit	VRV Indoor units	%	50-130		50-130		50-130		50-130		50-130	
	HR VRV I/U & HT Hydrobox	%	50-150		50-150		50-150		50-150		50-150	
Maximum Number of Connected Indoor Units			64		64		64		64		64	
Trade Condensing Unit Price			**£19,044.00**		**£20,866.00**		**£22,688.00**		**£24,483.00**		**£26,278.00**	

Notes:

The VRV IV W+ Water Cooled system is supplied as a common unit and can be used in either heat pump and heat recovery modes, from size 8 to 42 all using a three phase power supply.
The system is fully compatible with the full range of existing VRV fan coils and controls packages. It should be installed in a plant room.

RWEYQ-T9

VRV IV water cooled+ series

ErP 2021 COMPLIANT
Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

LOOP BY DAIKIN
For units made and sold in Europe*

R-410A

Heat Pump and Heat Recovery
RWEYQ-T9 (30 to 34 hp)

Outdoor Units			RWEYQ30T			RWEYQ32T			RWEYQ34T		
			RWEYQ10T9	RWEYQ10T9	RWEYQ10T9	RWEYQ10T9	RWEYQ10T9	RWEYQ12T9	RWEYQ10T9	RWEYQ12T9	RWEYQ12T9
Capacity	Nominal Cooling	kW	84			89.5			95		
	Nominal Heating	kW	94.5			100.5			106.5		
ηs,c	Seasonal Efficiency Cooling	%	308.30			318.20			342.50		
ηs,h	Seasonal Efficiency Heating	%	467.20			456.10			447.00		
Dimensions	Height	mm	980	980	980	980	980	980	980	980	980
	Width	mm	767	767	767	767	767	767	767	767	767
	Depth	mm	560	560	560	560	560	560	560	560	560
Weight		kg	185	185	185	185	185	185	185	185	185
Electrical Details	Power Supply	Phase /Hz/v	3ph / 50 / 400			3ph / 50 / 400			3ph / 50 / 400		
	Running Current	amps	9	9	9	9	9	10	9	10	10
	Starting Current	amps	4	4	4	4	4	4	4	4	4
	Fuse Rating	amps	25	25	25	25	25	25	25	25	25
Refrigerant Circuit	Refrigerant Type		R410A			R410A			R410A		
	Refrigerant Charge	kg	7.9	7.9	7.9	7.9	7.9	9.6	7.9	9.6	9.6
	Additional Charge	kg	data book			data book			data book		
Sound Power		dBA	71.0	71.0	71.0	71.0	71.0	72.0	71.0	72.0	72.0
Sound Pressure		dBA	50.0	50.0	50.0	50.0	50.0	56.0	50.0	56.0	56.0
Piping Limits	Maximum Length	m	165			165			165		
	Maximum Vertical Rise	m	50m if outdoor above IU / 40m if outdoor below IU			50m if outdoor above IU / 40m if outdoor below IU			50m if outdoor above IU / 40m if outdoor below IU		
Piping Connections	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Gas Heat Pump	inch (mm)	1 3/8 (34.9)			1 3/8 (34.9)			1 3/8 (34.9)		
	Gas Heat recovery	inch (mm)	1 3/8 (34.9)			1 3/8 (34.9)			1 3/8 (34.9)		
	Discharge (HR only)	inch (mm)	1 1/8 (28.6)			1 1/8 (28.6)			1 1/8 (28.6)		
	Drain	Outlet	14mm OD / 10mm ID per module			14mm OD / 10mm ID per module			14mm OD / 10mm ID per module		
	Water	Inlet & Outlet	ISO 228 - G1 1/4 B External thread - Per module			ISO 228 - G1 1/4 B External thread - Per module			ISO 228 - G1 1/4 B External thread - Per module		
Capacity Index Limit	VRV Indoor units	%	50-130			50-130			50-130		
	HR VRV I/U & HT Hydrobox	%	50-150			50-150			50-150		
Maximum Number of Connected Indoor Units			64			64			64		

Notes:

Daikin has introduced the new VRV IV W+ Water Cooled condensing unit to complement the rest of the VRV range. The water cooled system has a number of advantages over an air cooled system:

› High efficiencies & suitable for tall multi-storied buildings due to no limitations of water piping length & can be used with open and closed loop ground source systems

› Wide operation range with inlet water temperatures of +10°C to +45°C (possible down to -10°C in heating with the use of glycol) & the system offers greater efficiency in heating mode as there is no defrost cycle required for the water loop

Heat Pump and Heat Recovery
RWEYQ-T9 (36 to 42 hp)

Outdoor Units			RWEYQ36T			RWEYQ38T			RWEYQ40T			RWEYQ42T		
Capacity	Nominal Cooling	kW	100.5			107.0			113.5			120		
	Nominal Heating	kW	112.5			120.0			127.5			135		
ηs,c	Seasonal Efficiency Cooling	%	352.30			338.80			341.40			332.90		
ηs,h	Seasonal Efficiency Heating	%	438.50			419.40			404.40			391.20		
Dimensions	Height	mm	980	980	980	980	980	980	980	980	980	980	980	980
	Width	mm	767	767	767	767	767	767	767	767	767	767	767	767
	Depth	mm	560	560	560	560	560	560	560	560	560	560	560	560
Weight		kg	185	185	185	185	185	185	185	185	185	185	185	185
Electrical Details	Power Supply	Phase /Hz/v	3ph / 50 / 400			3ph / 50 / 400			3ph / 50 / 400			3ph / 50 / 400		
	Running Current	amps	10	10	10	10	10	12.6	10	12.6	12.6	12.6	12.6	12.6
	Starting Current	amps	4	4	4	4	4	4	4	4	4	4	4	4
	Fuse Rating	amps	25	25	25	25	25	25	25	25	25	25	25	25
Refrigerant Circuit	Refrigerant Type		R410A			R410A			R410A			R410A		
	Refrigerant Charge	kg	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
	Additional Charge	kg	data book			data book			data book			data book		
Sound Power		dBA	72.0	72.0	72.0	72.0	72.0	74.0	72.0	74.0	74.0	74.0	74.0	74.0
Sound Pressure		dBA	56.0	56.0	56.0	56.0	56.0	58.0	56.0	58.0	58.0	58.0	58.0	58.0
Piping Limits	Maximum Length	m	165			165			165			165		
	Maximum Vertical Rise	m	50m if outdoor above IU / 40m if outdoor below IU			50m if outdoor above IU / 40m if outdoor below IU			50m if outdoor above IU / 40m if outdoor below IU			50m if outdoor above IU / 40m if outdoor below IU		
Piping Connections	Liquid	inch (mm)	3/4 (19.1)			3/4 (19.1)			3/4 (19.1)			3/4 (19.1)		
	Gas Heat Pump	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
	Gas Heat recovery	inch (mm)	1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)			1 5/8 (41.3)		
	Discharge (HR only)	inch (mm)	1 1/8 (28.6)			1 3/8 (34.9)			1 3/8 (34.9)			1 3/8 (34.9)		
	Drain	Outlet	14mm OD / 10mm ID per module			14mm OD / 10mm ID per module			14mm OD / 10mm ID per module			14mm OD / 10mm ID per module		
	Water	Inlet & Outlet	ISO 228 - G1 1/4 B External thread - Per module			ISO 228 - G1 1/4 B External thread - Per module			ISO 228 - G1 1/4 B External thread - Per module			ISO 228 - G1 1/4 B External thread - Per module		
Capacity Index Limit	VRV Indoor units	%	50-130			50-130			50-130			50-130		
	HR VRV I/U & HT Hydrobox	%	50-150			50-150			50-150			50-150		
Maximum Number of Connected Indoor Units			64			64			64			64		

Notes:

The VRV IV W+ Water Cooled system is supplied as a common unit and can be used in either heat pump and heat recovery modes, from size 8 to 42 all using a three phase power supply.
The system is fully compatible with the full range of existing VRV fan coils and controls packages. It should be installed in a plant room.


VRV
DAIKIN

VRV Indoor units

One of the widest ranges on the market, it currently compromises 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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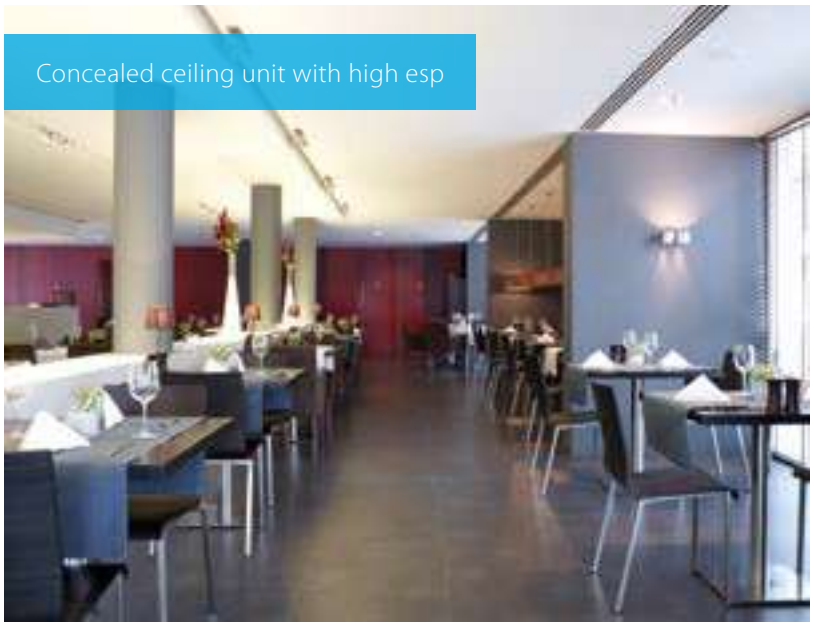
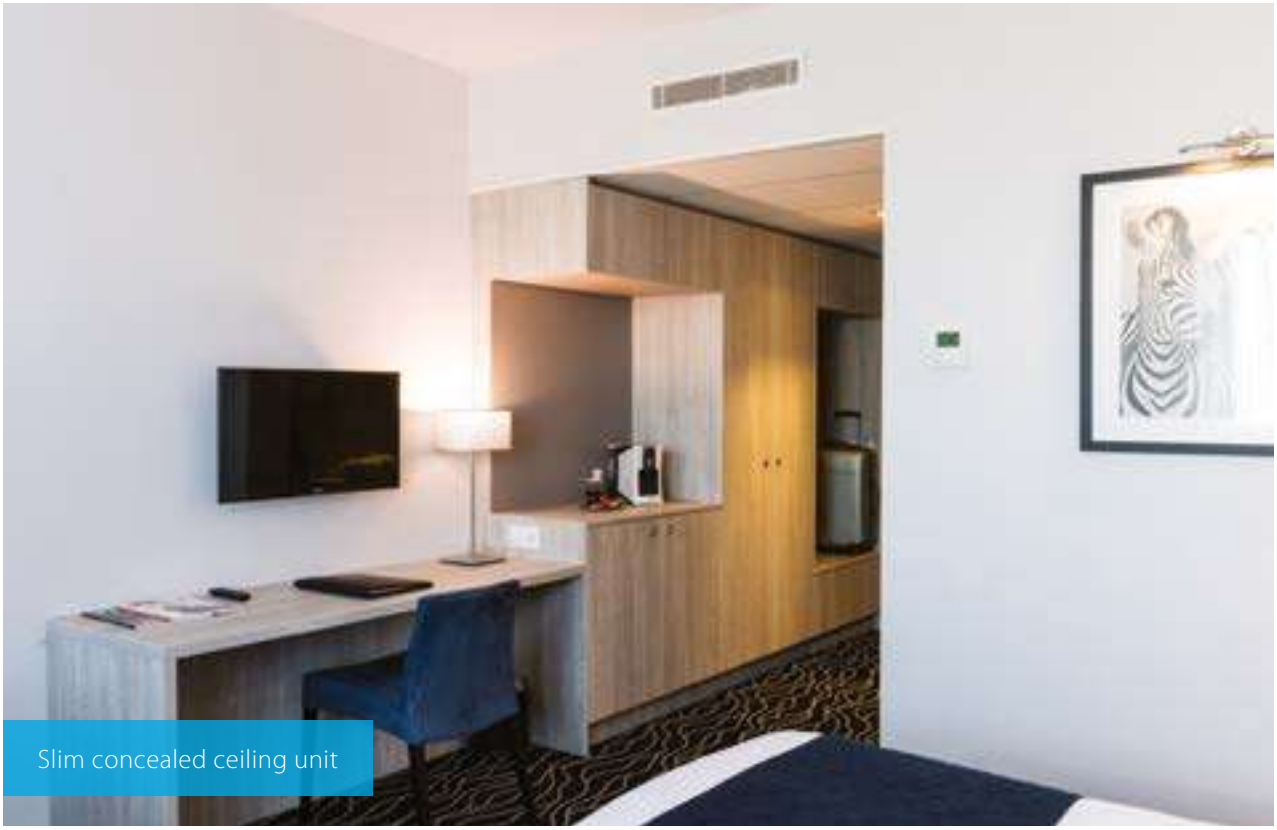


Concealed ceiling unit with high esp

Round flow cassette



Slim concealed ceiling unit

Concealed floor standing unit

Hot water production

Fully flat cassette

Products overview VRV IV

Capacity class (kW)

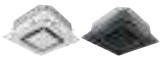
Type	Model		Product name		15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximise comfort › Flexibility to suit every room layout › Lowest installation height in the market! › Widest choice ever in decoration panel designs and colors	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 maximsze 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	FXKQ-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 developted 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							●	●		●	●	●			
	NEW Concealed ceiling unit with high ESP	ESP up to 250, ideal for extra large sized spaces › Only grilles are visible › Large capacity unit: up to 31.5 kW heating capacity	FXMQ-A														●	●
Wall mounted	Wall mounted unit	For rooms without false ceilings or free floor space › Flat, stylish front panel is more easy to clean › Small capacity unit developted for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor › The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAQ-A		●	●	●	●	●	●	●							
Ceiling suspended	Ceiling suspended unit	For wide rooms without false ceilings or 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 without false ceilings or 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.

				Capacity class (kW)								Connectable outdoor unit				
Type	**Model**	**Product name**		**15**	**20**	**25**	**35**	**42**	**50**	**60**	**71**	**RYYQ-U**	**RXYQ-U**	**RXYSCQ-TV1[3] RXYSQ-TV9[3] RXYSQ-TY9/TY1[3]**	**RWEYQ-T9[4]**	**RXYLQ-T**
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function[1])	FCAG-B					●		●	●	UV Streamer kit			✓		
	Fully flat cassette	FFA-A9				●	●		●	●				✓		
Concealed ceiling	Slim concealed ceiling unit	FDXM-F9				●	●		●	●	Auto cleaning filter option			✓		
	Concealed ceiling unit with inverter-driven fan	FBA-A(9)					●		●	●	●			✓		
Wall mounted	Daikin Emura Wall mounted unit (reddot award 2014 winner)	FTXJ-AW/ AS/AB			●	●	●		●			✓	✓	✓	✓	✓
	Stylish Wall mounted unit	FTXA-AW/ BS/BB/BT			●	●	●	●	●			✓	✓	✓	✓	✓
	Perfera Wall mounted unit	CTXM-R/ FTXM-R		● RXYS(C)Q only	●	●	●	●	●	●	●	✓	✓	✓	✓	✓
Ceiling suspended	Ceiling suspended unit	FHA-A(9)					●		●	●	●			✓		
Floor standing	Perfera Floor standing unit	FVXM-A9			●	●	●		●			✓	✓	✓	✓	✓
	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

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

Benefits overview VRV IV

We care		Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy
		Fan only	The unit can be used as fan, blowing air without heating or cooling
		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
		Presence & floor sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. 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 neightbourhood
		Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature
Air treatment		UV Streamer kit	Purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygienic indoor environment
		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	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains
		Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room
		Fan speed steps	Allows to select up to the given number of fan speed
		Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well
		Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis
		Infrared remote control	Starts, stops and regulates the air conditioner from a distance
		Wired remote control	Starts, stops and regulates the air conditioner
		Centralised control	Starts, stops and regulates several air conditioners from one central 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 hotel or office building

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-A**	**FXAQ-A**	**FXHQ-A**	**FXUQ-A**	**FXNQ-A**	**FXLQ-P**
												
●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●
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●	●	●	●	●	●	●	●	●	●	●	●	●
○												
● (2) (Optional high efficiency filter ePM10 60%)	● (1)	● (1)	● (1)	● (1)	● (1)	● (1)	● (1) Optional pre filter and high efficiency filter available	● (1)	● (1)	● (1)	● (1)	● (1)
●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●									
●	●	●	●					●	●	●		
5 + auto	3 + auto	3 + auto	2	3	3 + auto	3	3 + auto	2	3	3 + auto	2	3
●	●									●		
○	○	○	○	○	○	○	○	○	○	○	○	○
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●	●	●	●	●	●	●	○	○	○	●		
○	○			○	○	○		○			○	○

● standard, ○ optional

(1) Pre filter

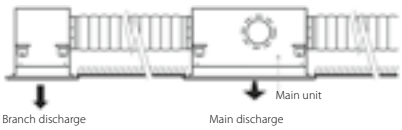
Round flow cassette

360° air discharge for optimum efficiency and comfort

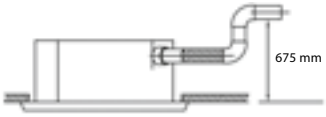
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels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

NEW

- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Branch duct discharge allows to optimise 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



FXFQ-B

BRC1H52W, BRC7FA532F

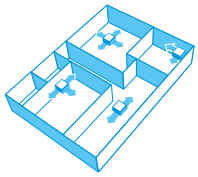
White panel | White auto cleaning panel | Black panel | Black design panel

Indoor Units				FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B	FXFQ80B	FXFQ100B	FXFQ125B
Capacity	UK Total Cooling		kW	1.80	2.30	2.90	3.60	4.50	5.70	7.20	9.00	11.30
	UK Sensible Cooling		kW	1.60	1.90	2.60	3.00	3.60	4.60	5.80	6.90	8.60
	Nominal Cooling		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Nominal Heating		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Air Flow Rate	High		m^3/sec	0.208	0.208	0.208	0.227	0.250	0.275	0.380	0.442	0.550
	Nom		m^3/sec	0.177	0.177	0.177	0.193	0.213	0.225	0.293	0.325	0.442
	Low		m^3/sec	0.147	0.147	0.147	0.158	0.175	0.175	0.207	0.207	0.332
Dimensions	Height x Width x Depth		mm	204x840x840						246x840x840		288x840x840
Weight			kg	19	19	19	20	21	21	24	24	26
Standard Decoration Panels	Model			Roundflow BYCQ140E white (standard panel) / Roundflow BYCQ140EB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	50x950x950								
	Weight		kg	5.5								
Fully White Decoration Panel	Model			Roundflow with white louvres BYCQ140EW								
	Colour			Pure White (RAL 9010)								
	Dimensions H x W x D		mm	50x950x950								
	Weight		kg	5.5								
Self Cleaning Decoration Panels	Model			Roundflow self-cleaning BYCQ140EGF white / Roundflow self-cleaning BYCQ140EGFB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	130x950x950								
	Weight		kg	10.3								
Electrical Details	Running Current		amps	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.8	1.3
	Power Supply		Phase / Hz / V	1 / 50 / 230								
	Fuse Rating		amps	5.0								
Sound Level	Sound Pressure	High	dBA	31.0	31.0	31.0	33.0	33.0	35.0	38.0	43.0	45.0
		Nom	dBA	29.0	29.0	29.0	31.0	31.0	33.0	34.0	37.0	41.0
		Low	dBA	28.0	28.0	28.0	29.0	29.0	30.0	30.0	30.0	36.0
	Sound Power		dBA	49	49	49	51	51	53	55	60	61
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)

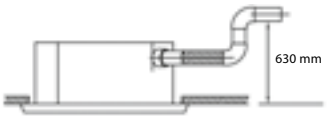
Fully flat cassette

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



FXZQ-A

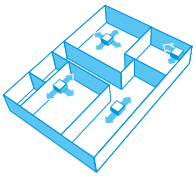
BRC1H52W, BRC7F530W-S

Indoor Units				FXZQ15A	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
Capacity	UK Total Cooling		kW	1.40	1.80	2.30	2.90	3.60	4.50
	UK Sensible Cooling		kW	1.30	1.50	1.80	2.10	2.90	3.60
	Nominal Cooling		kW	1.70	2.20	2.80	3.60	4.50	5.60
	Nominal Heating		kW	1.90	2.50	3.20	4.00	5.00	6.30
Air Flow Rate	High		m^3/sec	0.142	0.145	0.150	0.167	0.192	0.242
	Nom		m^3/sec	0.117	0.125	0.133	0.142	0.158	0.208
	Low		m^3/sec	0.108	0.108	0.108	0.117	0.133	0.167
Dimensions (with Decoration Panel)		HxWxD	mm	260 (306) x 575 (620) x 575 (620)					
Weight (with Decoration Panel)			kg	15.5 (18.3)	15.5 (18.3)	15.5 (18.3)	16.5 (19.3)	16.5 (19.3)	18.5 (21.3)
Decoration Panel				Fully Flat in white (N9.5) BYFQ60CW (standard panel)					
Dimensions			mm	46 x 620 x 620					
Weight			kg	2.8					
Decoration Panel				Fully Flat in white (N9.5) BYFQ60CS (silver panel)					
Dimensions			mm	46 x 620 x 620					
Weight			kg	2.8					
Decoration Panel				Old style panel BYFQ60B3 (White RAL9010)					
Dimensions			mm	55 x 700 x 700					
Weight			kg	2.7					
Electrical Details	Running Current		amps	0.3	0.3	0.3	0.4	0.4	0.6
	Power Supply		Phase / Hz / V	1 / 50 / 230					
	Fuse Rating		amps	5					
Sound Level	Sound Pressure	High	dBA	31.5	32.0	33.0	33.5	37.0	43.0
		Nom	dBA	28.0	29.5	30.0	30.0	32.0	40.0
		Low	dBA	25.5	25.5	25.5	26.0	28.0	33.0
	Sound Power		dBA	49	49	50	51	54	60
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)

2-way blow ceiling mounted cassette

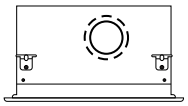
Slim, lightweight design installs easily in narrow corridors

› 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!



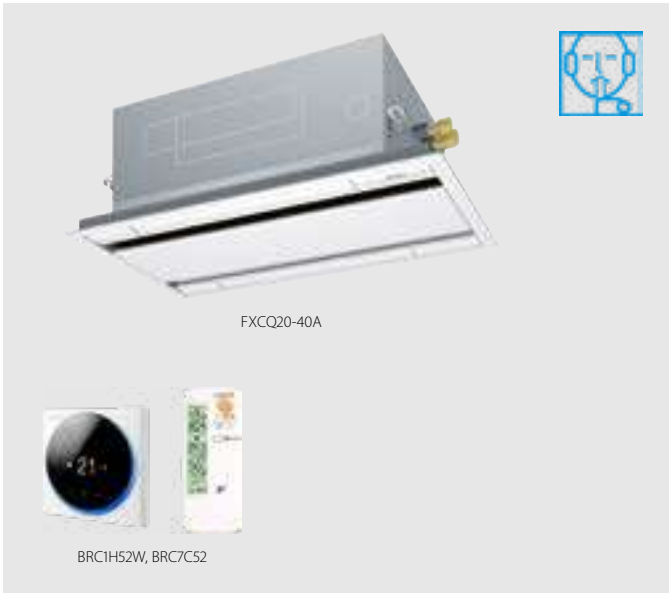
› Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
› Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing



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

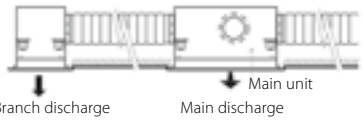
› Optimum comfort guaranteed with automatic air flow adjustment to the required load
› Maintenance operations can be performed by removing the front panel



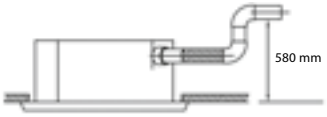
FXCQ20-40A

BRC1H52W, BRC7C52

› Branch duct discharge allows to optimise air distribution in irregular shaped rooms or to supply air to small adjacent rooms



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

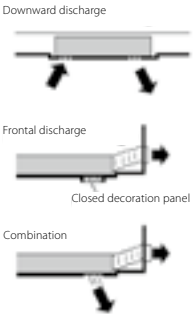


Indoor Units				FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A
Capacity	UK Total Cooling		kW	1.8	2.3	2.9	3.6	4.5	5.7	7.2	11.3
	UK Sensible Cooling		kW	1.7	2	2.3	2.9	3.5	4.9	5.7	8.7
	Nominal Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
	Nominal Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Air Flow Rate	High		m^3/sec	0.175	0.192	0.192	0.200	0.250	0.267	0.433	0.533
	Nom		m^3/sec	0.150	0.158	0.158	0.175	0.217	0.233	0.375	0.458
	Low		m^3/sec	0.125	0.133	0.133	0.142	0.175	0.192	0.308	0.375
Dimensions (with Decoration Panel)	Height		mm	305 (360)	305 (360)	305 (360)	305 (360)	305 (360)	305 (360)	305 (360)	305 (360)
	Width		mm	775 (1070)	775 (1070)	775 (1070)	775 (1070)	990 (1285)	990 (1285)	1445 (1740)	1445 (1740)
	Depth		mm	620 (700)	620 (700)	620 (700)	620 (700)	620 (700)	620 (700)	620 (700)	620 (700)
Weight (with Decoration Panel)			kg	19 (29)	19 (29)	19 (29)	19 (29)	22 (33)	25 (36)	33 (46)	38 (51)
Decoration Panel				BYBCQ40H				BYBCQ63H		BYBCQ125H	
Electrical Details	Running Current		amps	0.3	0.3	0.3	0.3	0.4	0.5	0.6	1.1
	Power Supply		Phase / Hz / V	1 / 50 / 230							
	Fuse Rating		amps	5							
Sound Level	Sound Pressure	High	dBA	32.0	34.0	34.0	36.0	37.0	39.0	42.0	46.0
		Nom	dBA	30.0	31.0	32.0	33.0	35.0	37.0	38.0	42.0
		Low	dBA	28.0	29.0	30.0	31.0	31.0	32.0	33.0	38.0
	Sound Power		dBA	48.0	50.0	50.0	52.0	53.0	55.0	58.0	62.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)

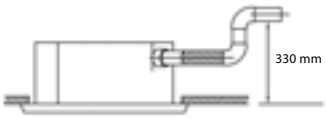
Ceiling mounted corner cassette

1-way blow unit for corner installation

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



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



FXKQ-MA

BRC1H52W, BRC4C61

Indoor Units				FXKQ25MA	FXKQ32MA	FXKQ40MA	FXKQ63MA
Capacity	UK Total Cooling		kW	2.3	2.9	3.6	5.7
	UK Sensible Cooling		kW	2.2	2.5	2.8	4.5
	Nominal Cooling		kW	2.8	3.6	4.5	7.1
	Nominal Heating		kW	3.2	4.0	5.0	8.0
Air Flow Rate	High		m^3/sec	0.183	0.183	0.217	0.300
	Low		m^3/sec	0.150	0.150	0.167	0.250
Dimensions (with Decoration Panel)	Height		mm	215 (285)	215 (285)	215 (285)	215 (285)
	Width		mm	1110 (1240)	1110 (1240)	1110 (1240)	1310 (1440)
	Depth		mm	710 (800)	710 (800)	710 (800)	710 (800)
Weight (with Decoration Panel)			kg	31 (39.5)	31 (39.5)	31 (39.5)	34 (43.5)
Decoration Panel				BYK45F			BYK71F
Electrical Details	Running Current		amps	0.3	0.3	0.3	0.5
	Power Supply		Phase / Hz / V	1 / 50 / 230			
	Fuse Rating		amps	5			
Sound Level	Sound Pressure	High	dBA	38.0	38.0	40.0	42.0
		Low	dBA	33.0	33.0	34.0	37.0
	Sound Power		dBA	54.0	54.0	56.0	58.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)

Multi zoning kit

for concealed ceiling units

Easy selection via our NEW software!

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

Benefits

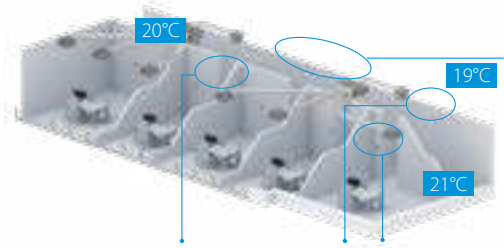
Increased comfort

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

Easy to install

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

How does it work?



Zoning box: fully pre-assembled plenum with dampers

Individual zone thermostats

Bluezero - Airzone Main Thermostat
› Color graphic interface for controlling zones

AZCE6BLUEZEROCB (Wired)

Airzone Zone Thermostat
› Graphic interface with low-energy e-ink screen for controlling zones

AZCE6THINKRB (Wireless)

Airzone Zone Thermostat
› Thermostat with buttons for controlling the temperature

AZCE6LITECB (Wired)
AZCE6LITERB (Wireless)

Compatibility

Number of motorised dampers		Reference	Dimensions H x W x D (mm)	Ø (mm)	SkyAir FDXM-F9 25	35	50	60	SkyAir FBA-A(9) 35	50	60	71	100	125	140	SkyAir ADEA-A 71	100	125	VRV IV+ FXDQ-A3 15	20	25	32	40	50	63	VRV IV+ FXSQ-A 15	20	25	32	40	50	63	80	100	125	140
Standard plenum	2	AZE(Z/R)6DAIST07XS2	300 x 930 x 454	200																						•	•	•	•						
		AZE(Z/R)6DAIST07S2							•	•																			•	•					
	3	AZE(Z/R)6DAIST07XS3																								•	•	•	•						
		AZE(Z/R)6DAIST07S3							•	•																			•	•					
	4	AZE(Z/R)6DAIST07S4	300 x 1,140 x 454						•	•																			•	•					
		AZE(Z/R)6DAIST07M4									•	•				•															•	•			
	5	AZE(Z/R)6DAIST07M5	300 x 1,425 x 454								•	•				•															•	•			
		AZE(Z/R)6DAIST07L5											•	•	•		•	•															•	•	
	6	AZE(Z/R)6DAIST07M6	300 x 1,638 x 454								•	•				•															•	•			
		AZE(Z/R)6DAIST07L6											•	•	•		•	•															•	•	
	7	AZE(Z/R)6DAIST07L7	515 x 1,425 x 454										•	•	•		•	•															•	•	
		AZE(Z/R)6DAIST07XL7																																	•
	8	AZE(Z/R)6DAIST07L8											•	•	•		•	•															•	•	
		AZE(Z/R)6DAIST07XL8																																	•
Medium plenum	2	AZEZ6DAIBS07XS2	250 x 930 x 454	200																						•	•	•	•						
		AZEZ6DAIBS07S2							•	•																			•	•					
	3	AZEZ6DAIBS07XS3																								•	•	•	•						
		AZEZ6DAIBS07S3							•	•																			•	•					
		AZEZ6DAIBS07M3									•	•				•															•	•			
	4	AZEZ6DAIBS07S4	250 x 1,140 x 454						•	•																			•	•					
		AZEZ6DAIBS07M4									•	•				•															•	•			
		AZEZ6DAIBS07L4											•	•	•		•	•															•	•	
	5	AZEZ6DAIBS07S5	250 x 1,425 x 454						•	•																			•	•					
		AZEZ6DAIBS07M5									•	•				•															•	•			
		AZEZ6DAIBS07L5											•	•	•		•	•															•	•	
		AZEZ6DAIBS07XL5																																	•
	6	AZEZ6DAIBS07M6	250 x 1,638 x 454								•	•				•															•	•			
		AZEZ6DAIBS07L6											•	•	•		•	•															•	•	
		AZEZ6DAIBS07XL6																																	•
Slim plenum	2	AZE(Z/R)6DAISL01S2	210 x 720 x 444	200	•	•													•	•	•	•													
	3	AZE(Z/R)6DAISL01S3			•	•													•	•	•	•													
	4	AZE(Z/R)6DAISL01M4	210 x 930 x 444																				•	•											
	5	AZE(Z/R)6DAISL01L5	210 x 1,140 x 444				•	•																	•										

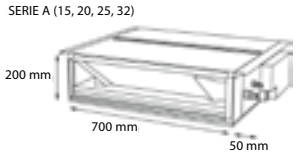
(1) Z models are reversible; R models are heating only
(2) Medium Ceiling Void reversible units can be blocked to heating only via AZX6MCS module

For more information on options refer to page 187

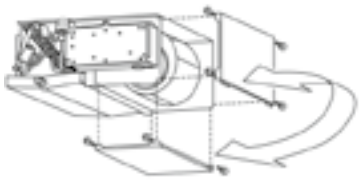
Slim concealed ceiling unit

Slim design for flexible installation

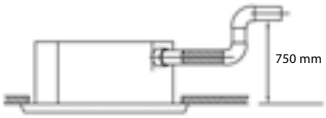
› Compact dimensions, can easily be mounted in a ceiling void of only 240mm



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



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



FXDQ15-32A3

BRC1H52W, BRC4C65

Indoor Units				FXDQ15A3	FXDQ20A3	FXDQ25A3	FXDQ32A3	FXDQ40A3	FXDQ50A3	FXDQ63A3
Capacity	UK Total Cooling		kW	1.4	1.8	2.3	2.9	3.6	4.5	5.7
	UK Sensible Cooling		kW	1.3	1.6	1.9	2.2	2.8	3.5	4.3
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m^3/sec	0.125	0.133	0.133	0.133	0.175	0.208	0.275
	Nom		m^3/sec	0.117	0.120	0.120	0.120	0.158	0.183	0.242
	Low		m^3/sec	0.107	0.107	0.107	0.107	0.142	0.167	0.217
External Static Pressure	High		Pa	30	30	30	30	44	44	44
	Low		Pa	10	10	10	10	15	15	15
Dimensions	Height x Width x Depth		mm	200 x 750 x 620				200 x 950 x 620		200 x 1150 x 620
Weight			kg	22	22	22	22	26	26	29
Electrical Details	Running Current		amps	0.4	0.4	0.4	0.4	0.5	0.5	0.6
	Power Supply		Phase / Hz / V	1 / 50 / 230						
	Fuse Rating		amps	5						
Sound Level	Sound Pressure	High	dBA	32.0	33.0	33.0	33.0	34.0	35.0	36.0
		Nom	dBA	31.0	31.0	31.0	31.0	32.0	33.0	34.0
		Low	dBA	27.0	27.0	27.0	27.0	28.0	29.0	30.0
	Sound Power		dBA	50.0	51.0	51.0	51.0	52.0	53.0	54.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

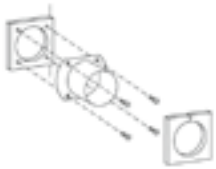
› Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge

› 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
› Reduced energy consumption thanks to specially developed DC fan motor and drain pump
› Optional fresh air intake

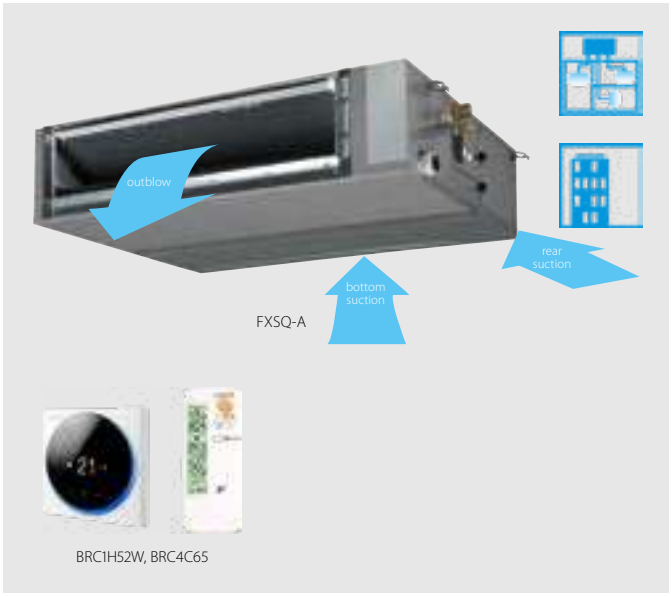
Fresh air intake opening in casing

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

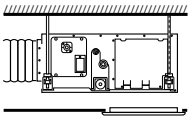
Optional fresh air intake kit



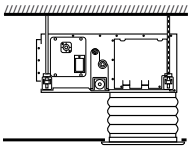
* Allow larger quantities of fresh air to be brought in



› Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles

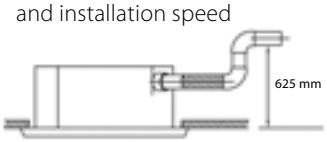


For free use into a false ceiling



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

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

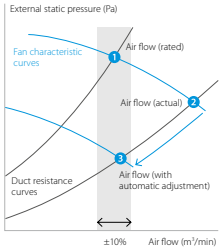


Automatic Airflow Adjustment function

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

Why?

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



Indoor Units				FXSQ15A	FXSQ20A	FXSQ25A	FXSQ32A	FXSQ40A	FXSQ50A	FXSQ63A	FXSQ80A	FXSQ100A	FXSQ125A	FXSQ140A
Capacity	UK Total Cooling		kW	1.4	1.8	2.3	2.9	3.6	4.5	5.7	7.2	9.0	11.3	12.9
	UK Sensible Cooling		kW	1.1	1.4	1.8	2.3	2.9	3.6	4.5	5.7	7.2	8.9	10.2
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Air Flow Rate	High		m^3/sec	0.145	0.150	0.150	0.158	0.250	0.253	0.350	0.383	0.533	0.600	0.650
	Nom		m^3/sec	0.125	0.125	0.125	0.133	0.208	0.208	0.300	0.325	0.450	0.525	0.567
	Low		m^3/sec	0.108	0.108	0.108	0.117	0.183	0.183	0.250	0.267	0.383	0.433	0.467
External Static Pressure	High		Pa	150	150	150	150	150	150	150	150	150	150	150
	Low		Pa	30	30	30	30	30	30	30	40	40	50	50
Dimensions	Height x Width x Depth		mm	245 x 550 x 800				245 x 700 x 800		245 x 1000 x 800		245 x 1400 x 800		245 x 1550 x 800
Weight			kg	23.5	23.5	23.5	24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Electrical Details	Running Current		amps	0.7	0.7	0.7	0.7	1.1	1.1	1.5	1.7	2.2	2.4	2.5
	Power Supply		Phase / Hz / V	1 / 50 / 230										
	Fuse Rating		amps	5										
Sound Level	Sound Pressure	High	dBA	29.5	30.0	30.0	31.0	35.0	35.0	33.0	35.0	36.0	39.0	41.5
		Nom	dBA	28.0	28.0	28.0	29.0	32.0	32.0	30.0	32.0	34.0	36.0	38.0
		Low	dBA	25.0	25.0	25.0	26.0	29.0	29.0	27.0	29.0	31.0	33.0	34.0
	Sound Power		dBA	54.0	54.0	54.0	55.0	60.0	60.0	59.0	61.0	61.0	64.0	64.0
Piping Connections	Liquid		inches (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas		inches (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)

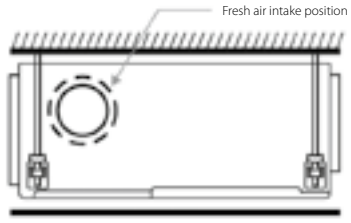
NEW FXMQ-P7

Concealed ceiling unit with high ESP

Ideal for large sized spaces: ESP up to 250 Pa

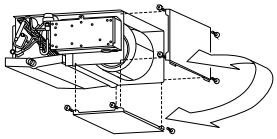
- High external static pressure up to 250Pa facilitates extensive duct and grille network
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required (50-125 class)

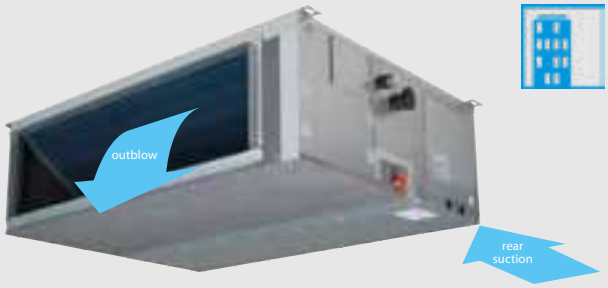
Fresh air intake opening in casing



* 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

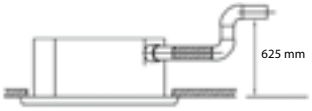




FXMQ200-250A

BRC1H52W, BRC4C65

- Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



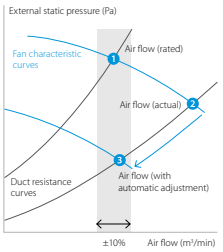
- Large capacity unit: up to 31.5 kW heating capacity

Automatic Airflow Adjustment function

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

Why?

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



Indoor Units				FXMQ50P7	FXMQ63P7	FXMQ80P7	FXMQ100P7	FXMQ125P7
Capacity	UK Total Cooling		kW	4.5	5.7	7.2	9	11.3
	UK Sensible Cooling		kW	4.1	4.9	6.1	7.3	9.2
	Nominal Cooling		kW	5.6	7.1	9.0	11.2	14
	Nominal Heating		kW	6.3	8.0	10.0	12.5	16
Air Flow Rate	High		m^3/sec	0.300	0.325	0.417	0.533	0.650
	Nom		m^3/sec	0.275	0.297	0.375	0.458	0.558
	Low		m^3/sec	0.250	0.267	0.333	0.383	0.467
External Static pressure	High		Pa	200	200	200	200	200
	Low		Pa	100	100	100	100	100
Dimensions	Height x Width x Depth		mm	300 x 1000 x 700			300 x 1400 x 700	
Weight			kg	35	35	35	46	46
Electrical Details	Running Current		amps	1.4	1.4	1.7	2.3	2.9
	Power Supply		Phase / Hz / V	1 / 50 / 230				
	Fuse Rating		amps	5				
Sound Level	Sound Pressure	High	dBA	41.0	42.0	43.0	43.0	44.0
		Nom	dBA	39.0	40.0	41.0	41.0	42.0
		Low	dBA	37.0	38.0	39.0	39.0	40.0
	Sound Power		dBA	61.0	64.0	67.0	65.0	70.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)

Wall mounted unit

For rooms without false ceilings or 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

FXAQ-A

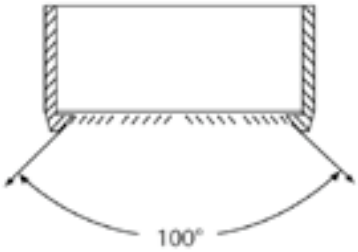
BRC1H52W, BRC7EA628

Indoor Units				FXAQ15A	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Capacity	UK Total Cooling		kW	1.4	1.8	2.3	2.9	3.6	4.5	5.7
	UK Sensible Cooling		kW	1.4	1.8	2.0	2.4	3.3	3.7	4.6
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m^3/sec	0.140	0.152	0.157	0.163	0.203	0.240	0.305
	Low		m^3/sec	0.117	0.117	0.117	0.117	0.162	0.192	0.225
Dimensions	Height x Width x Depth		mm	290 x 795 x 266				290 x 1050 x 269		
Weight			kg	12	12	12	12	15	15	15
Electrical Details	Running Current		amps	0.3	0.3	0.4	0.4	0.4	0.5	0.7
	Power Supply		Phase / Hz / V	1 / 50 / 230						
	Fuse Rating		amps	5						
Sound Level	Sound Pressure	High	dBA	32.0	33.0	35.0	37.5	37.0	41.0	46.5
		Low	dBA	28.5	28.5	28.5	28.5	33.5	35.5	38.5
	Sound Power		dBA	51.0	52.0	53.0	55.0	55.0	58.0	63.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)

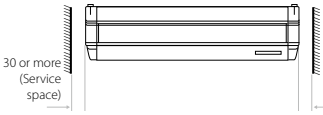
Ceiling suspended unit

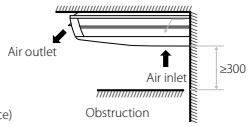
For wide rooms without false ceilings or free floor space

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



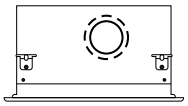
› Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
› Two optional intelligent sensors improve energy efficiency and comfort
› Can easily be installed in both new and refurbishment projects
› Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space





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

Fresh air intake opening in casing



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

› Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

FXHQ63A

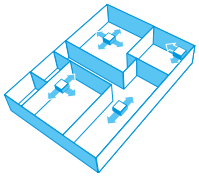
BRC1H52W, BRC7GA53-9

Indoor Units				FXHQ32A	FXHQ63A	FXHQ100A
Capacity	UK Total Cooling		kW	2.9	5.7	9
	UK Sensible Cooling		kW	2.3	4.4	6.3
	Nominal Cooling		kW	3.6	7.1	11.2
	Nominal Heating		kW	4.0	8.0	12.5
Air Flow Rate	High		m^3/sec	0.233	0.333	0.492
	Nom		m^3/sec	0.200	0.283	0.400
	Low		m^3/sec	0.167	0.233	0.317
Dimensions	Height x Width x Depth		mm	235 x 960 x 690	235 x 1270 x 690	235 x 1590 x 690
Weight			kg	24	33	39
Electrical Details	Running Current		amps	0.8	0.8	1.7
	Power Supply		Phase / Hz / V	1 / 50 / 230		
	Fuse Rating		amps	5		
Sound Level	Sound Pressure	High	dBA	36.0	37.0	44.0
		Nom	dBA	34.0	35.0	37.0
		Low	dBA	31.0	34.0	34.0
	Sound Power		dBA	54.0	55.0	62.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)

4-way blow ceiling suspended unit

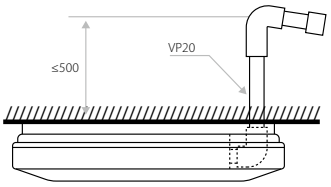
Unique Daikin unit for high rooms without false ceilings or free floor space

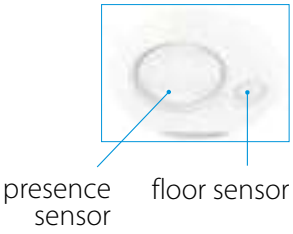
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!



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

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





Indoor Units				FXUQ71A	FXUQ100A
Capacity	UK Total Cooling		kW	6.4	9.0
	UK Sensible Cooling		kW	5.2	7.0
	Nominal Cooling		kW	8.0	11.2
	Nominal Heating		kW	9.0	12.5
Air Flow Rate	High		m^3/sec	0.375	0.517
	Nom		m^3/sec	0.325	0.433
	Low		m^3/sec	0.267	0.350
Dimensions	Height x Width x Depth		mm	198 x 950 x 950	
Weight			kg	26	27
Electrical Details	Running Current		amps	0.6	1.4
	Power Supply		Phase / Hz / V	1 / 50 / 230	
	Fuse Rating		amps	5	
Sound Level	Sound Pressure	High	dBA	40.0	47.0
		Nom	dBA	38.0	44.0
		Low	dBA	36.0	40.0
	Sound Power		dBA	58.0	65.0
Piping Connections	Liquid		inch (mm)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	5/8 (15.9)	5/8 (15.9)

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

FXNQ-A

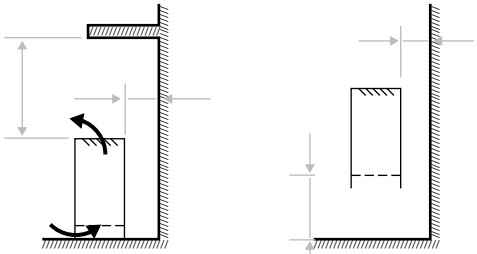
BRC1H52W, BRC4C65

Indoor Units				FXNQ20A	FXNQ25A	FXNQ32A	FXNQ40A	FXNQ50A	FXNQ63A
Capacity	UK Total Cooling		kW	1.8	2.3	2.9	3.6	4.5	5.7
	UK Sensible Cooling		kW	1.6	1.9	2.2	2.8	3.5	4.3
	Nominal Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	2.5	3.2	4.0	5.0	6.3	8
Air Flow Rate	High		m^3/sec	0.133	0.133	0.133	0.175	0.208	0.275
	Nom		m^3/sec	0.120	0.120	0.120	0.158	0.183	0.242
	Low		m^3/sec	0.107	0.107	0.107	0.142	0.167	0.217
External Static Pressure	High		Pa	41	41	42	52	59	55
	Nominal		Pa	10	10	10	15	15	15
Dimensions	Height x Width x Depth		mm	620 x 750 x 200			620 x 950 x 200		620 x 1150 x 200
Weight			kg	23.5	23.5	23.5	27.5	27.5	32.0
Electrical Details	Running Current		amps	0.4	0.4	0.4	0.5	0.5	0.6
	Power Supply		Phase / Hz / V	1 / 50 / 230					
	Fuse Rating		amps	5					
Sound Level	Sound Pressure	High	dBA	30.0	30.0	30.0	32.0	33.0	35.0
		Nom	dBA	28.5	28.5	28.5	30.0	31.0	33.0
		Low	dBA	27.0	27.0	27.0	28.0	29.0	32.0
	Sound Power		dBA	51.0	51.0	51.0	52.0	53.0	54.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)

Floor standing unit

For perimeter zone air conditioning

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



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

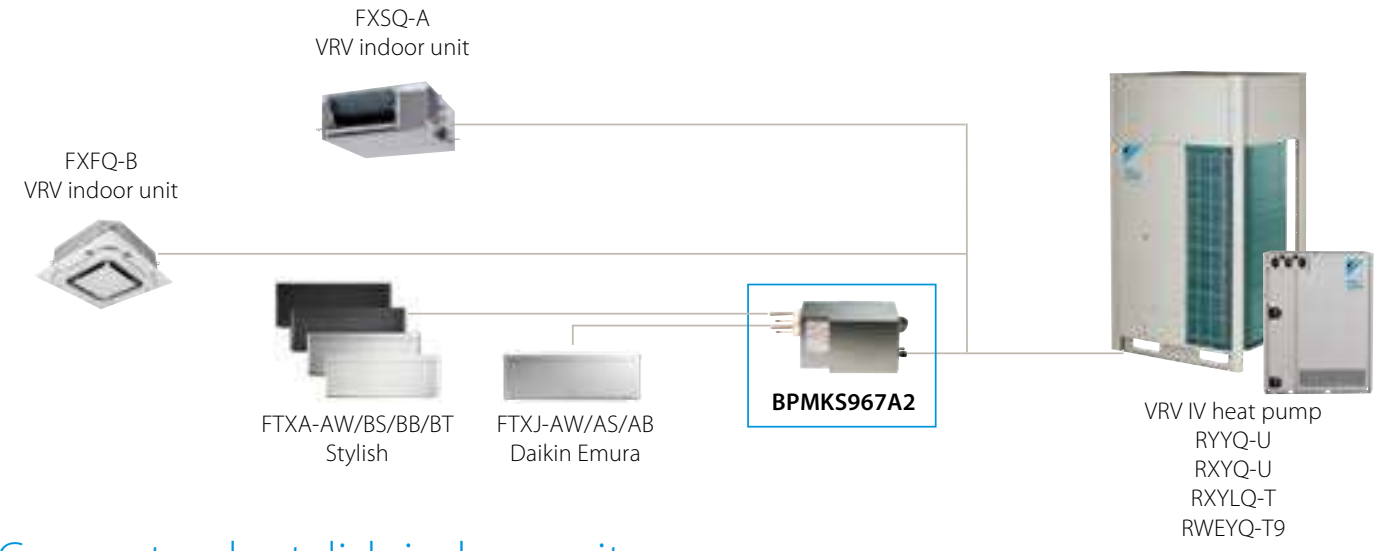
BRC1H52W, BRC4C65

Indoor Units				FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
Capacity	UK Total Cooling		kW	1.8	2.3	2.9	3.6	4.5	5.7
	UK Sensible Cooling		kW	1.5	1.8	2.2	2.7	3.4	4.2
	Nominal Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m^3/sec	0.117	0.117	0.133	0.183	0.233	0.267
	Low		m^3/sec	0.100	0.100	0.100	0.142	0.183	0.200
Dimensions	Height x Width x Depth		mm	600 x 1000 x 232		600 x 1140 x 232		600 x 1420 x 232	
Weight			kg	27	27	32	32	38	38
Electrical Details	Running Current		amps	0.3	0.3	0.6	0.6	0.6	0.6
	Power Supply		Phase / Hz / V	1 / 50 / 230					
	Fuse Rating		amps	5					
Sound Level	Sound Pressure	High	dBA	35.0	35.0	35.0	38.0	39.0	40.0
		Low	dBA	32.0	32.0	32.0	33.0	34.0	35.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)
	Gas		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)

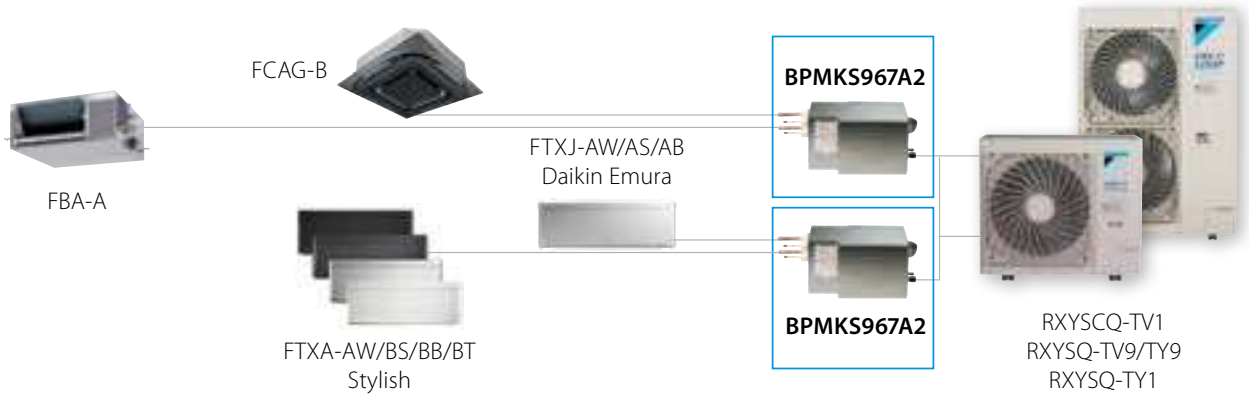
VRV heat pump combined with

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

BPMKS967A2

Branch provider			BPMKS967A2	FBPMKS967A2
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity				
Max. connectable combination				
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg		

Wall mounted unit

Design that speaks for itself

- Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white, silver and black
- 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
- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc.
- Onecta app: 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!

Indoor Units	White (RAL 9002)		FTXJ20AW	FTXJ25AW	FTXJ35AW	FTXJ42AW	FTXJ50AW
	Silver (RAL 9006)		FTXJ20AS	FTXJ25AS	FTXJ35AS	FTXJ42AS	FTXJ50AS
	Black (RAL 9005)		FTXJ20AB	FTXJ25AB	FTXJ35AB	FTXJ42AB	FTXJ50AB
Capacity	UK Total Cooling	kW	1.95	2.44	3.32	4.11	4.89
	UK Sensible Cooling	kW	1.71	1.98	2.43	2.84	3.18
	Nominal Cooling	kW	2.0	2.5	3.4	4.2	5.0
	Nominal Heating	kW	2.5	2.8	4.0	5.4	5.8
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+++	A+++	A+++	A++	A++
	Pdesign	kW	2.00	2.50	3.40	4.20	5.00
	SEER		8.75	8.74	8.73	7.5	7.33
	Annual Energy Consumption	kWh	80	100	136	196	239
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+++	A+++	A+++	A++	A++
	Pdesign	kW	2.40	2.45	2.50	3.80	4.00
	SCOP		5.15	5.15	5.15	4.60	4.60
	Annual Energy Consumption	kWh	652	666	680	1156	1218
Air Flow Rate (Cooling)	High / Med / Low / Silent	m^3/sec	0.183/0.140/0.100/0.076	0.190/0.143/0.100/0.076	0.196/0.143/0.100/0.076	0.217/0.158/0.120/0.076	0.225/0.173/0.127/0.086
Dimensions	Height x Width x Depth	mm	305 x 900 x 212	305 x 900 x 212	305 x 900 x 212	305 x 900 x 212	305 x 900 x 212
Weight		kg	12	12	12	12	12
Sound Pressure (Cooling)	High / Med / Low / Silent	dBA	39/32/25/19	40/33/25/19	41/33/25/19	45/37/29/21	46/39/31/24
Sound Pressure (Heating)	High / Med / Low / Silent	dBA	39/32/25/19	40/33/25/19	41/33/25/19	45/37/29/21	46/42/33/24
Sound Power (Cooling)		dBA	57	57	60	60	60

stylish

Wall mounted unit

Most compact design wall mounted unit

- A compact and functional design suitable for all interiors in a white, black, silver and blackwood coloured elegant finish
- The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it

STANDARD INCLUDED

- Onecta app: 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.

GOOD DESIGN

DESIGN AWARD 2018

reddot award 2018 winner

Indoor Units	White (RAL 9002)		CTXA15AW	FTXA20AW	FTXA25AW	FTXA35AW	UK.FTXA42AW	FTXA50AW
	Black (RAL 9005)		CTXA15BB	FTXA20BB	FTXA25BB	FTXA35BB	UK.FTXA42BB	FTXA50BB
	Silver (RAL 9006)		CTXA15BS	FTXA20BS	FTXA25BS	FTXA35BS	UK.FTXA42BS	FTXA50BS
	Blackwood (RAL N/A)		CTXA15BT	FTXA20BT	FTXA25BT	FTXA35BT	UK.FTXA42BT	FTXA50BT
Capacity	UK Total Cooling	kW	Multi Combination Only	1.95	2.44	3.32	4.11	4.89
	UK Sensible Cooling	kW		1.95	1.96	2.43	3.01	3.56
	Nominal Cooling	kW		2.0	2.5	3.4	4.2	5.0
	Nominal Heating	kW		2.5	2.8	4.0	5.4	5.8
Seasonal Efficiency (EN14825) COOLING	Energy Label			A+++	A+++	A+++	A++	A++
	Pdesign	kW		2.0	2.5	3.4	4.2	5.0
	SEER			8.75	8.74	8.73	7.50	7.33
	Annual Energy Consumption	kWh		80	101	137	196	239
Seasonal Efficiency (EN14825) HEATING	Energy Label			A+++	A+++	A+++	A++	A++
	Pdesign	kW		2.40	2.45	2.50	3.80	4.00
	SCOP			5.15	5.15	5.15	4.6	4.6
	Annual Energy Consumption	kWh		653	666	680	1150	1217
Air Flow Rate (Cooling)	High / Med / Low / Silent	m^3/sec	0.183 / 0.136 / 0.102 / 0.077	0.183 / 0.136 / 0.102 / 0.077	0.192 / 0.143 / 0.102 / 0.077	0.198 / 0.143 / 0.102 / 0.077	0.218 / 0.167 / 0.120 / 0.077	0.225 / 0.173 / 0.127 / 0.087
Dimensions	Height / Width / Depth	mm	295 x 798 x 189	295 x 798 x 189	295 x 798 x 189	295 x 798 x 189	295 x 798 x 189	295 x 798 x 189
Weight		kg	12	12	12	12	12	12
Sound Pressure (Cooling)	High / Med / Low / Silent	dBA	39 / 32 / 25 / 21	39 / 32 / 25 / 19	40 / 33 / 25 / 19	41 / 33 / 25 / 19	45 / 37 / 29 / 21	46 / 39 / 31 / 24

perfera

Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- Using electrons to trigger chemical reactions with airborne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Quiet operation: down to 19dBA sound pressure level
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)

Indoor Units			FTXM35R	FTXM50R	FTXM60R
Capacity	UK Total Cooling	kW	3.42	4.89	5.86
	UK Sensible Cooling	kW	2.52	3.36	3.98
	Nominal Cooling	kW	3.5	5.0	6.0
	Nominal Heating	kW	4.0	6.0	7.0
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++
	Pdesign	kW	3.5	5.0	6.0
	SEER		7.70	7.41	6.90
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	A+
	Pdesign	kW	2.6	4.5	4.6
	SCOP		4.60	4.60	4.35
Air Flow Rate (Cooling)	High / Med / Low / Silent	m^3/sec	0.188 / 0.130 / 0.100 / 0.070	0.263 / 0.233 / 0.190 / 0.138	0.278 / 0.233 / 0.197 / 0.152
Dimensions	Height	mm	295	299	299
	Width	mm	778	998	998
	Depth	mm	272	292	292
Weight		kg	10	14.5	14.5
Sound Pressure (Cooling)	High / Med / Low / Silent	dBA	45 / 33 / 29 / 19	44 / 40 / 36 / 27	46 / 42 / 37 / 30
Sound Pressure (Heating)	High / Med / Low / Silent	dBA	39 / 35 / 28 / 20	43 / 39 / 34 / 31	45 / 41 / 36 / 33
Sound Power (Cooling)		dBA	58	58	60

perfera

Floor standing unit

Design floor standing unit for optimal heating comfort thanks to unique heating features

- Seasonal efficiency values up to A++ in heating, resulting in low running costs compared to gas boilers and electric heating
- Excellent contemporary design
- Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- The floor warming function optimises convection by distributing hot air from the bottom of the unit
- The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- Dual air discharge flow for better air distribution
- Using electrons to trigger chemical reactions with airborne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- Onecta app: control your indoor from any location with an app, via your local network or internet.

- Quiet operation: down to 19dBA sound pressure level
- Combinable with 2 and 3 port multi outdoor units (except 2-3MXM68)

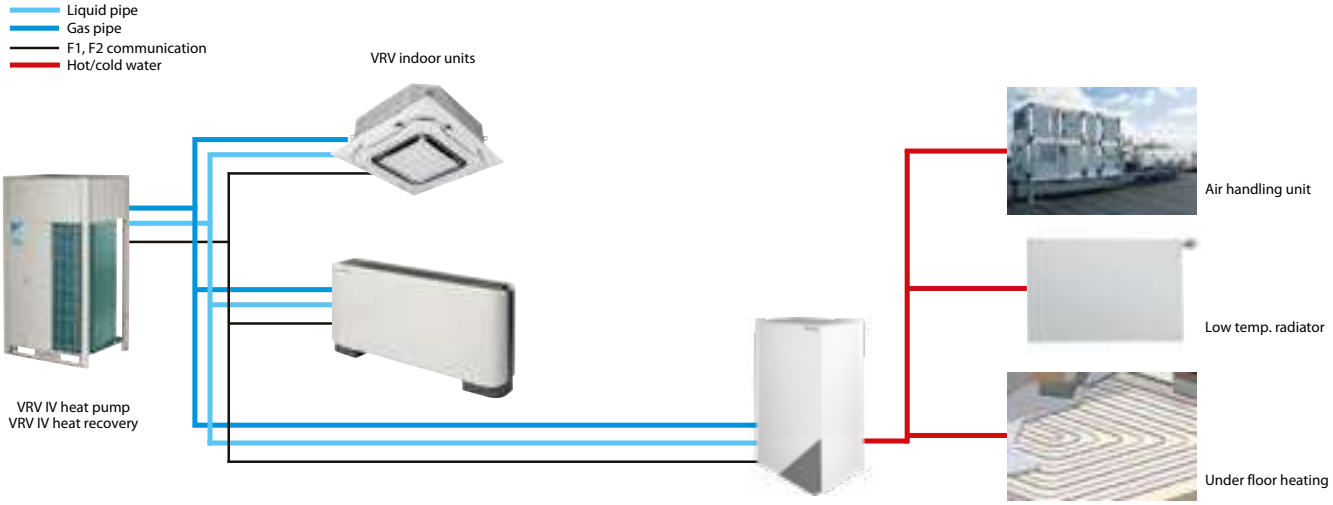
Indoor Units			CVXM20A9	FVXM25A9	FVXM35A9	FVXM50A9
Capacity	UK Total Cooling	kW	Multi Combinations Only	2.35	3.32	4.86
	UK Sensible Cooling	kW		1.71	2.22	3.55
	Nominal Cooling	kW		2.4	3.4	5.0
	Nominal Heating	kW		3.4	4.5	5.8
Seasonal Efficiency (EN14825) COOLING	Energy Label			A+++	A++	A++
	Pdesign	kW		2.4	3.4	5.0
	SEER			8.55	8.11	7.30
	Annual Energy Consumption	kWh		98	147	240
Seasonal Efficiency (EN14825) HEATING	Energy Label			A++	A++	A+
	Pdesign	kW		2.3	2.8	4.1
	SCOP			4.65	4.63	4.31
	Annual Energy Consumption	kWh		692	847	1330
Air Flow Rate (Cooling)	High / Med / Low / Silent	m^3/sec	0.145 / 0.117 / 0.082 / 0.068	0.145 / 0.117 / 0.082 / 0.068	0.153 / 0.117 / 0.082 / 0.068	0.193 / 0.150 / 0.110 / 0.090
Dimensions	Height	mm	600	600	600	600
	Width	mm	750	750	750	750
	Depth	mm	238	238	238	238
Weight		kg	17	17	17	17
Sound Pressure (Cooling)	High / Med / Low / Silent	dBA	38 / 32 / 25 / 22	38 / 32 / 25 / 20	39 / 32 / 25 / 20	44 / 38 / 31 / 27
Sound Pressure (Heating)	High / Med / Low / Silent	dBA	38 / 32 / 25 / 21	38 / 32 / 25 / 19	39 / 32 / 25/ 19	46 / 40 / 35 / 29
Sound Power (Cooling)		dBA	52	52	53	61

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



Indoor unit					HXY080A8	HXY125A8
Cooling capacity	Nom.			kW	8.0	12.5
Heating capacity	Nom.			kW	9.0	14.0
Casing	Colour				White	
	Material				Precoated sheet metal	
Dimensions	Unit	Height x Width x Depth		mm	890x480x344	
Weight	Unit			kg	44	
Sound pressure level	Nom.			dBA	-	
Operation range	Heating	Ambient	Min.~Max.	°C	-20~24	
		Water side	Min.~Max.	°C	25~45	
Refrigerant	Type				R-410A	
Refrigerant circuit	Liquid			inch (mm)	3/8 (9.5)	
	Gas			inch (mm)	5/8 (15.9)	
Water circuit	Piping connections diameter			inch	G 1"1/4 (female)	
Power supply				Phase / Hz / V	1 / 50 / 230	
Recommended fuses				A	5	

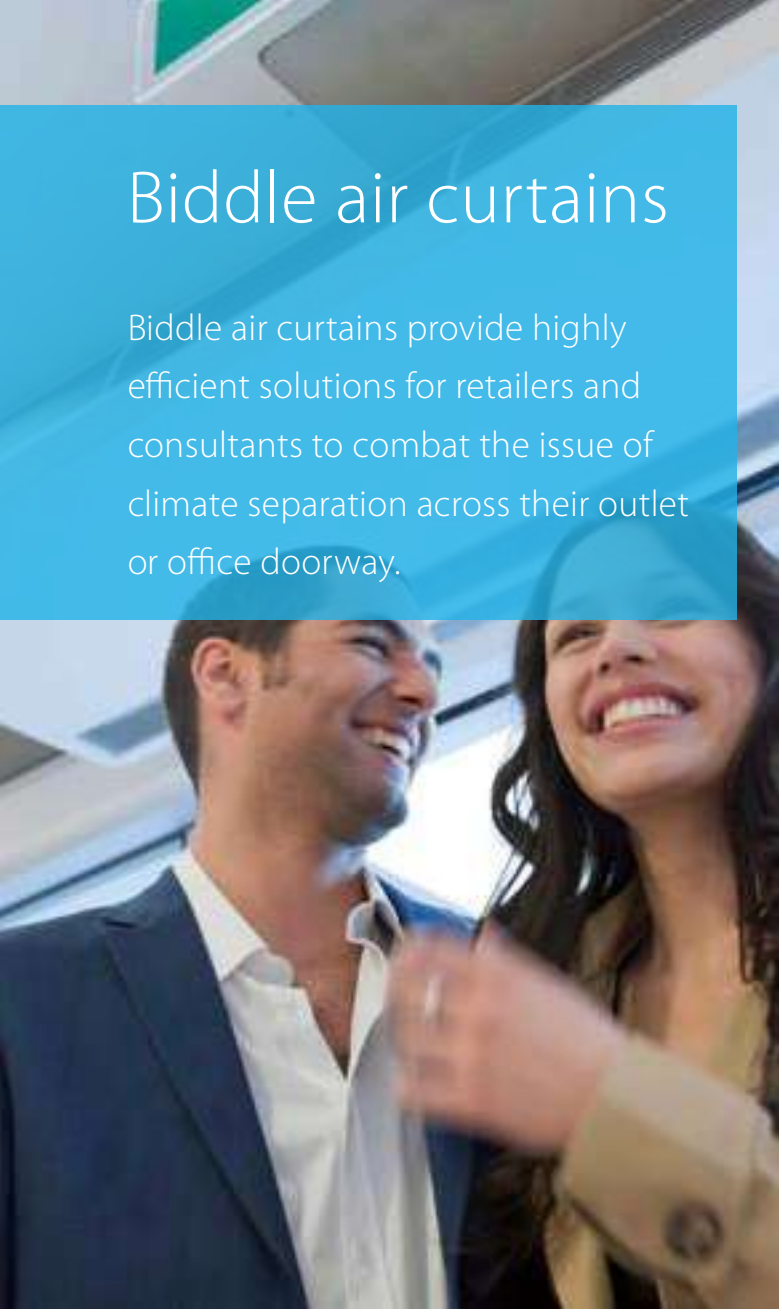
High temperature hydrobox for VRV

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
- Very wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- Various control possibilities with weather dependant set point or thermostat control
- The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- No gas connection or oil tank needed
- Connectable to VRV IV heat recovery

Indoor unit					HXHD125A8	HXHD200A8	HXY080A8	HXY125A8
					High Temperature		Low Temperature	
Cooling Capacity	Nom.			kW	-	-	8.0	12.5
Heating capacity	Nom.			kW	14.0	22.4	9.0	14
Casing	Colour				Metallic grey	Metallic grey	White	White
	Material				Precoated sheet metal			
Dimensions	Unit	Height x Width x Depth		mm	705 x 600 x 695		890 x 480 x 344	
Weight	Unit			kg	92	147	44	44
Sound pressure level	Nom.			dBA	42 (1) / 43 (2)	46 (1) (2)	-	
	Night quiet mode	Level 1		dBA	38 (1)	45 (1)		
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20 / 24 (3)	-20~20 / 24 (3)	-20~24	-20~24
		Water side	Min.~Max.	°C	25~80	25~80	25~45	25~45
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~43	-20~43	-	
		Water side	Min.~Max.	°C	45~75	45~75	-	
Refrigerant	Type				R-134a	R-134a	R-410A	R-410A
Refrigerant circuit	Liquid			inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas			inch (mm)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
Water circuit	Piping connections diameter			inch	G 1" (female)		G 1" 1/4(female)	
	Heating water system	Water volume	Min.~Max.	litres	20~200	20~400	-	
Power supply				Phase / Hz / V	1 / 50 / 230	3 / 50 / 380~415	1 / 50 / 230	1 / 50 / 230
Current	Recommended fuses			A	20	16	5	5

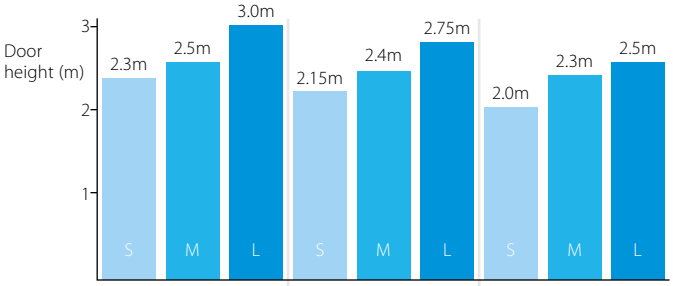
(1) Sound levels are measured at: EW 55°C; LW 65°C (2) Sound levels are measured at: EW 70°C; LW 80°C (3) Field setting



Biddle air curtains

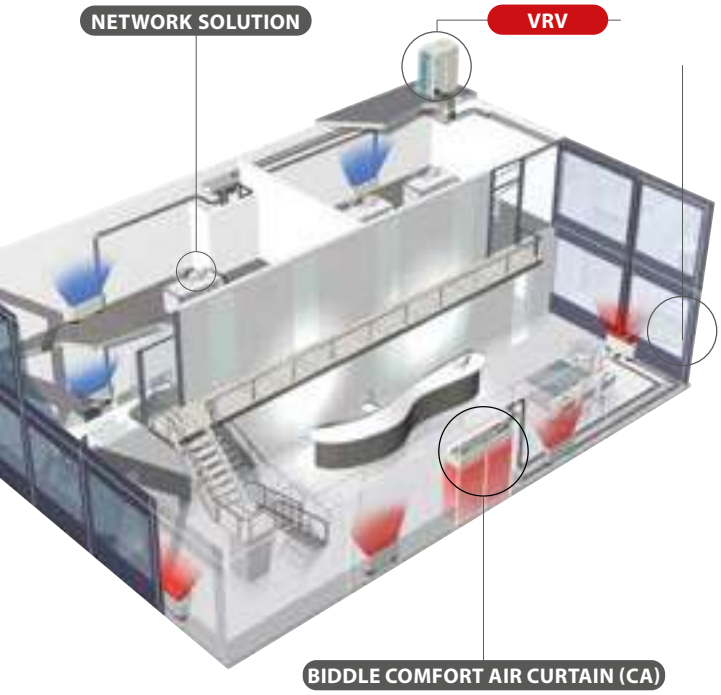
Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

Biddle air curtain portfolio

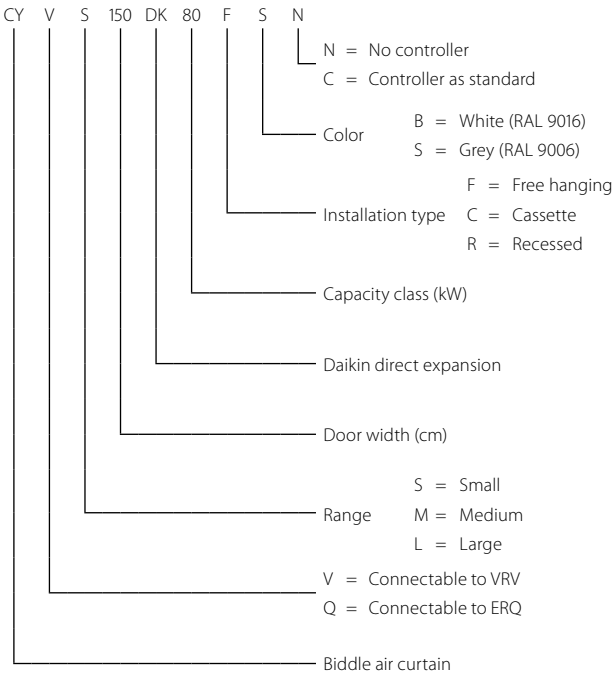


Installation condition	Favourable	Normal	Unfavourable
	ex: covered shopping mall or revolving door entrance	ex: little direct wind, no opposite open doors, building with ground floor only	ex: location at a corner or square, multiple floors and / or open stairwell

Type	Product name	Features	
Biddle standard air curtain free hanging	CYV S/M/L-DK-F	- CYQ - Biddle air curtain for connection to ERQ - Connectable to ERQ heat pump - Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible - Free-hanging model (F): easy wall mounted installation - Recessed model (R): neatly conceiled in the ceiling - A payback period of less than 1.5 years compared to installing an electric air curtain - Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required	
Biddle standard air curtain cassette	CYV S/M/L-DK-C		
Biddle standard air curtain recessed	CYV S/M/L-DK-R		



Biddle air curtain nomenclature



New R-32 range coming in 2023

Biddle air curtain for VRV and Conveni-pack

- Connectable to VRV heat recovery, heat pump and Conveni-pack
- 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
- A payback period of less then 1.5 years compared to installing an electric air curtain
- 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

CYVM150DK80FSC

CYVM150DK80CSC

CYVM150DK80RSC

SMALL (Door height 2.7m to 2m)

Maximum Door Width			m	1.0			1.5			2.0			2.5		
Mounting Height *2		Max / Min	m	2.7 / 2.0											
Model name				CYVS100DK80*BC			CYVS150DK80*BC			CYVS200DK100*BC			CYVS250DK140*BC		
Type				*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R
Heating Capacity		speed 3	kW	7.40			9.00			11.60			16.20		
Delta T	Inlet = room temperature	speed 3	°K	15			15			15			16		
Power input (50Hz)	Fan only / Heating		kW	0.23 / 0.23			0.35 / 0.35			0.46 / 0.46			0.58 / 0.58		
Dimensions	Height		mm	270	270	270	270	270	270	270	270	270	270	270	270
	Width		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		mm	590	821	561	590	821	561	590	821	561	590	821	561
Weight			kg	56	59	61	66	83	88	83	102	108	107	129	137
Casing	Colour			white RAL9010											
Minimum requiring ceiling void			mm	420			420			420			420		
Fan - Air flow rate	Heating	speed 3	m³/sec	0.323			0.485			0.647			0.808		
Sound pressure	Heating	speed 3	dBA	47			49			50			51		
Refrigerant	Type			R-410A											
Piping connections	Liquid (OD) / Gas		inch (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 3/4 (19)		
Power supply			Phase / Hz / V	1 / 50 / 230											

MEDIUM (Door height 3.2 to 2.3m)

Maximum Door Width			m	1.0			1.5			2.0			2.5		
Mounting Height *2		Max / Min	m	3.2 / 2.3											
Model name				CYVM100DK80*BC			CYVM150DK80*BC			CYVM200DK100*BC			CYVM250DK140*BC		
Type				*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R
Heating capacity		speed 3	kW	9.20			11.00			13.40			19.90		
Delta T	Inlet = room temperature	speed 3	°K	17			14			13			15		
Power input (50Hz)	Fan only / Heating		kW	0.37 / 0.37			0.56 / 0.56			0.75 / 0.75			0.94 / 0.94		
Dimensions	Height		mm	270	270	270	270	270	270	270	270	270	270	270	270
	Width		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		mm	590	821	561	590	821	561	590	821	561	590	821	561
Weight			kg	57	68	66	73	88	93	94	111	117	108	136	144
Casing	Colour			white RAL9010											
Minimum requiring ceiling void			mm	420			420			420			420		
Fan - Air flow rate	Heating	speed 3	m³/sec	0.446			0.669			0.892			1.115		
Sound pressure	Heating	speed 3	dBA	50			51			53			54		
Refrigerant	Type			R-410A											
Piping connections	Liquid (OD) / Gas		inch (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 3/4 (19)		
Power supply			Phase / Hz / V	1 / 50 / 230											

LARGE (Door height 3.7m to 2.5m)

Maximum Door Width			m	1.0			1.5			2.0			2.5		
Mounting Height *2		Max / Min	m	3.7 / 2.5											
Model name				CYVL100DK125*BC			CYVL150DK200*BC			CYVL200DK250*BC			CYVL250DK250*BC		
Type				*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R
Heating Capacity		speed 3	kW	15.6			23.3			29.4			31.1		
Delta T	Inlet = room temperature	speed 3	°K	15			15			14			12		
Power Input (50Hz)	Fan only / Heating		kW	0.75 / 0.75			1.13 / 1.13			1.50 / 1.50			1.88 / 1.88		
Dimensions	Height		mm	370	370	370	370	370	370	370	370	370	370	370	370
	Width		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		mm	774	1105	745	774	1105	745	774	1105	745	774	1105	745
Weight			kg	76	81	83	100	118	141	126	151	155	157	190	196
Casing	Colour			white RAL9010											
Minimum requiring ceiling void			mm	520			520			520			520		
Fan - Air Flow Rate	Heating	speed 3	m³/sec	0.861			1.292			1.722			2.153		
Sound Pressure	Heating	speed 3	dBA	53			54			56			57		
Refrigerant	Type			R-410A											
Piping Connections	Liquid (OD) / Gas		inch (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 3/4 (19)			3/8 (9.5) / 7/8 (22.2)			3/8 (9.5) / 7/8 (22.2)		
Power Supply			Phase / Hz / V	1 / 50 / 230											

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.

Commercial
Ventilation & Air Purification

Why choose Daikin ventilation? 156

ERV / HRV - Energy/Heat recovery ventilation units 158

NEW ATB-L/S - Modular Top Smart 160

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Control possibilities 171

Integration in third party AHU 174

Expansion valves & Control boxes 175

Commercial air purifier 176

Advantages 176

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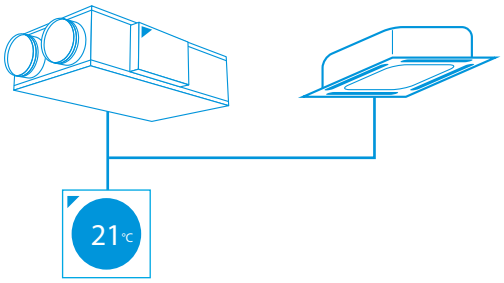
Five reasons why Daikin's ventilation range is unique in the market

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

DESIGN AWARD 2018

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 the VAM/Modular L Smart, Modular Top (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 ePM_1 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)

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

ErP 2021 COMPLIANT

Did you know?

CO_2 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

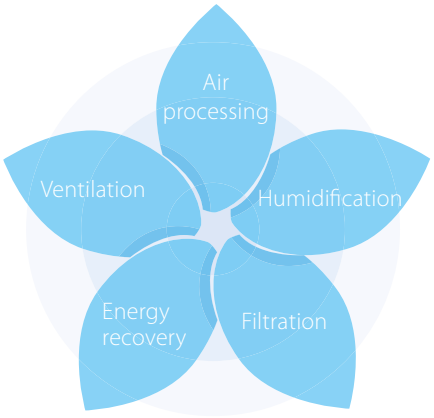
Our energy recovery units **recover sensible energy** (Modular L Pro / Modular L Smart / Modular Top / Modular Smart) or **total (sensible + latent) energy** (VAM/EKVDX/VKM-GBM), substantially reducing the load on the air conditioning system up to 40%.

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 four 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.

Indoor Environment Quality Components

› **Ventilation:** Ensures the provision of fresh and clean air
› **Energy recovery:** Delivers energy savings by transferring heat and moisture between airflows thus helping to bring supply air to the required indoor conditions for temperature and humidity
› **Air processing:** Delivers the required conditioned air to optimise the energy efficiency of indoor HVAC equipment
› **Humidification:** Ensures the desired moisture level in the conditioned space
› **Filtration:** Ensures clean and healthy air by filtering out pollen, dust, odours and other contaminants that are harmful to our health



150 | 500 | 1,000 | 2,000 | 2,500 | 3,000 | 3,500 | 4,000 | 15,000 | 25,000 | 140,000 [m³/h]

Decentralised systems

NEW

- Low power consumption and low Specific Fan Power
- Superior IAQ level: up to three stage filtration on supply side
- Plug&Play control solution, for a quick and easy start-up
- Starting from 550 mm width, for an air flow up to 1,100 m³/h
- DX coil integration for a unique Daikin fresh air package

D-AHU MODULAR T (SMART)

- High efficiency counterflow heat exchanger
- Free-cooling operation
- EC centrifugal fan
- Wide range of options
- Smart version connects Plug & Play to Sky Air / VRV systems

D-AHU MODULAR L (SMART)

- Compact size
- High energy efficient paper recovering sensible and latent heat
- EC fan motors
- Filter clogging alarm based on pressure

VAM-FC9 / VAM-J

- DX coil for post-treatment of fresh air
- Split up concept increases application flexibility
- Integrates both in R-32 and R-410A VRV systems

VAM + DX COIL

- With DX coil for post-treated fresh air
- Increased comfort
- Humidifier option

VKM-GBM

Centralised systems

- High efficiency aluminium plate heat exchanger
- Pre-configured sizes
- Plug & Play pre-configured controls
- With DX or water coil option

D-AHU MODULAR P

- Rotary heat exchanger (sorption and sensible technology)
- Pre-configured sizes
- Plug & Play pre-configured controls
- With DX or water coil option

D-AHU MODULAR R

- Fully customizable
- Plug & play
- 4 types of control
- With DX or water coil option

D-AHU Professional

Modular T Smart

Top connected Air Handling Unit

Highlights

- Duct connections are located at the top, reducing the unit's footprint
- Low power consumption and low SFP (Specific Fan Power) for a very efficient unit operation
- Superior IAQ level: up to three stage filtration on supply side (more than the 90% of PM1 is removed from outdoor air)
- Plug&Play control solution, for a quick and easy start-up
- Very compact unit, starting from 550 mm width, for an air flow up to 1,100 m³/h
- DX coil integration for a unique Daikin fresh air package available for connection to VRV or ERQ

ATB-S

IAQ matters

An excellent IAQ improves people's performance and well-being, and decreases risk factors for various diseases. Modular T satisfies the ventilation and filtration needs of the indoor environment, guaranteeing an outstanding level of IAQ.

The future of ventilation

The Modular T, with its unique features, represents the latest product developed by Daikin for fresh air treatment and not only. Thanks to its optimised design, it can be easily transported and

	D-AHU Modular T - Base Unit					
	Size	**ATB03*A(S)**	**ATB04*A(S)**	**SB.ATB05*A(S)**	**SB.ATB06*A(S)**	**SB.ATB07*A(S)**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]	0.222	0.458	0.639	0.750	1.080
	Thermal Efficiency [%]	89.3	88.3	85.1	85.5	90.8
	Maximum ESP [Pa]	100	100	100	100	100
	Nominal Fan Current - Supply and Extract [A]	1.7	3.39	4.61	5.17	7.87
	Nominal Power Input [kW]	0.39	0.78	1.06	1.19	1.81
	SFPv [kW/m³/s]	1.47	1.50	1.49	1.41	1.50
	Electrical Supply [V-Ph-Hz]	230-1-50				
	Length [mm]	1580	1650	2170	2620	2950
	Width [mm]	550	790	790	790	890
	Height [mm]	1600	1600	1900	1850	2050
	Weight [kg]	200	250	400	500	620
	Duct Connection Size (mm) Diameter	4 x 250	4 x 315	4 x 355	4 x 400	4 x 500
	Sound Power Level - Lw dB(A)[1]	57	52	55	55	58
	Sound Pressure Level - Lp dB(A)[2]	50	45	48	48	51

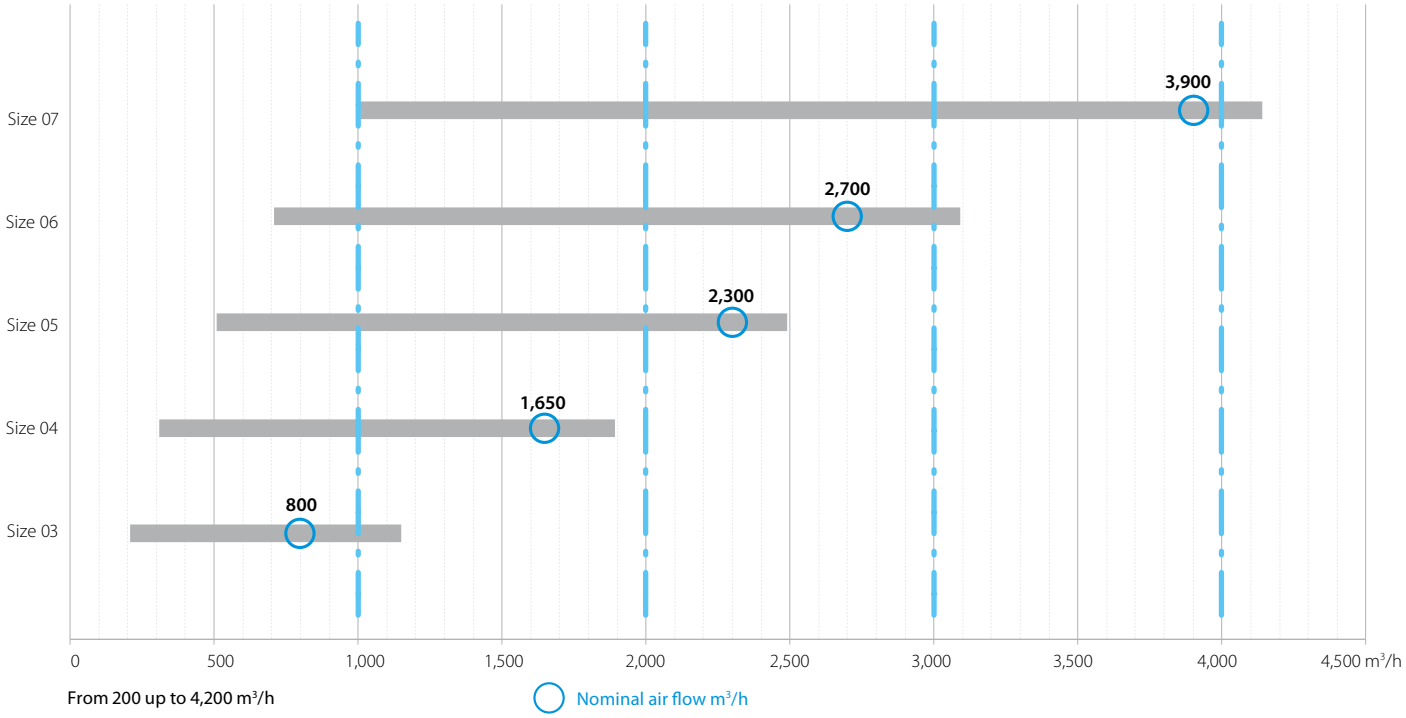
* Indicates handing of unit, R=Right Hand, L = Left Hand. (S) Indicates Modular Light Smart. [1] Sound Power Level Breakout (Supply & Return AIr Combined). [2] Sound Pressure Level according to EN3744, Surrounding, Directivity (Q=4) at a distance of 1m. [3] Price includes, ePM1 50% (F7) Filter, Mineral wool insulation, Aluzinc internal skin and Aluzinc Pre-Painted external skin. [4] Units require BRC1E53C wired remote controller.

Air flow range

Modular T is available in 5 sizes covering a wide range of applications such as hotels, offices, schools, gyms and light commercial buildings.

Sectioning

To ensure an easy and quick installation Modular T size 05 will be provided in two sections, while size 06 and 07 in three sections to pass smoothly through standard doors[1].



1. Please refer to technical data table at page 6 for more details

Modular L Smart

Premium efficiency heat recovery unit

Highlights

- Connects Plug&Play into the Sky Air and VRV control network
- Easy installation and commissioning
- Internal pre-filter stage (up to ePM_1 50% (F7) + ePM_1 80% (F9)) making the unit reach highest indoor air quality requirements.
- Wide air flow coverage from 150m³/h to 3,400m³/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
- Optimised SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger

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

Right drain connection (ALB-RBS)

Left drain connection (ALB-LBS)

		D-AHU Modular L - Base Unit					
	Size	**ALB02*B(S)**	**ALB03*B(S)**	**ALB04*B(S)**	**ALB05*B(S)**	**ALB06*B(S)**	**ALB07*B(S)**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]	0.134	0.293	0.402	0.523	0.764	0.958
	Thermal Efficiency [%]	87.4	87.4	90.1	89.1	90.0	89.1
	Maximum ESP [Pa]	125	115	200	100	220	100
	Nominal Fan Current - Supply and Extract [A]	1.35	2.20	2.20	2.3	2 x 2.2	2 x 2.3
	Nominal Power Input [kW]	0.17	0.50	0.50	0.50	2 x 0.42	2 x 0.43
	SFPv [kW/m³/s]	1.96	2.30	1.98	1.68	2.07	1.72
	Electrical Supply [V-Ph-Hz]	230-1-50					
	Length [mm]	1660	1800	2000	2000	2000	2000
	Width [mm]	920	1100	1600	1600	2000	2000
	Height [mm]	280	350	415	415	500	500
	Weight [kg]	125	180	270	280	355	360
	Duct Connection Size (mm) Width	250	400	500	500	700	700
	Height	150	200	300	300	400	400
	Sound Power Level - Lw dB(A)[1]	59	65	66	64	69	66
	Sound Pressure Level - Lp dB(A)[2]	52	58	59	57	62	59

* Indicates handing of unit, R=Right Hand, L = Left Hand. (S) Indicates Modular Light Smart. [1] Sound Power Level Breakout (Supply & Return Air Combined). [2] Sound Pressure Level according to EN3744, Surrounding, Directivity (Q=4) at a distance of 1m. [3] Price includes, ePM1 50% (F7) Filter, Mineral wool insulation, Aluzinc internal skin and Aluzinc Pre-Painted external skin. [4] Units require BRC1E53C wired remote controller.

Electrical heater for Modular L Smart

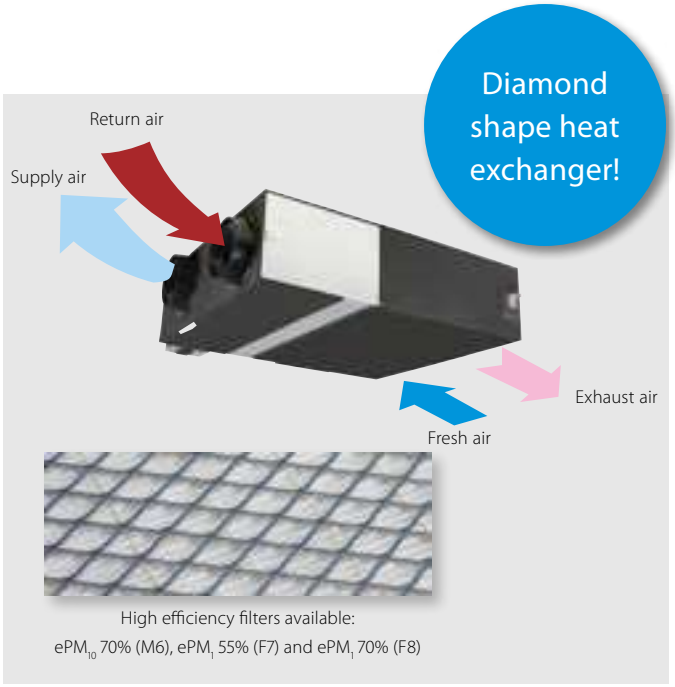
› Total solution for fresh air with Daikin supply of both Modular L Smart and electrical heaters
› Increase comfort in low outdoor temperature thanks to the heated outdoor air
› Integrated electrical heater concept (no additional accessories required)
› Standard dual flow and temperature sensor
› Heater 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 CO_2 sensor (J-series)
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
- Can be used as stand alone or integrated in the Sky Air or VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m^3/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
- VAM-J8 series are connectable to EKVDX DX coil for air processing
- Possibility of CO_2 concentration when combining VAM-J8 with optional BRYMA CO_2 sensor and Madoka remote controller (with or without EKVDX)



ErP 2021 COMPLIANT

			VAM150FC9	VAM250FC9	VAM350J8	VAM500J8	VAM650J8	VAM800J8	VAM1000J8	VAM1500J8	VAM2000J8
Dimensions (excluding switch box & transitions)	Height	mm	285	285	305	305	368	368	368	731	731
	Width	mm	776	776	1113	1113	1354	1354	1354	1354	1354
	Depth	mm	525	525	866	866	920	1172	1172	1172	1172
Weight		kg	24	24	46.5	46.5	61.5	76.5	76.5	160	160
Duct Connection Diameter		mm	100	150	200	200	250	250	250	2 x 250**	2 x 250**
Air Flow Rate	Ultra-High	m^3/hr	150	250	350	500	650	800	1000	1500	2000
	High	m^3/hr	140	230	300	425	550	680	850	1275	1700
	Low	m^3/hr	105	155	200	275	350	440	550	825	1100
	Ultra-High	m^3/sec	0.042	0.069	0.097	0.139	0.181	0.222	0.278	0.417	0.556
	High	m^3/sec	0.039	0.064	0.083	0.118	0.153	0.189	0.236	0.354	0.472
	Low	m^3/sec	0.029	0.043	0.056	0.076	0.097	0.122	0.153	0.229	0.306
External Static Pressure	Ultra-High	Pa	90	70	90	90	90	90	90	90	90
	High	Pa	87	63	70	70	70	70	70	70	70
	Low	Pa	40	25	50	50	50	50	50	50	50
Sound Pressure Level (Heat Exchange Mode)	Ultra-High	dBA	27.0	28.0	34.5	37.5	39.0	39.0	42.0	42.0	45.0
	High	dBA	26.0	26.0	32.0	35.0	36.0	36.0	38.5	39.0	41.5
	Low	dBA	20.5	21.0	29.0	30.5	31.0	30.5	32.5	33.5	36.0
Electrical Details	Power Supply	V / Hz / Phase	230 / 50 / 1								
	Running Current	A	0.9	0.9	1.6	2.1	2.8	4.4	4.9	8.8	9.8
	Max Fuse Size	A	16	16	16	16	16	16	16	16	16

* For full details of specifications relating to EN308 please see the technical data book. ** 1 x 350 if optional plenum chambers EKPLEN200 are used.

Electrical heater for VAM

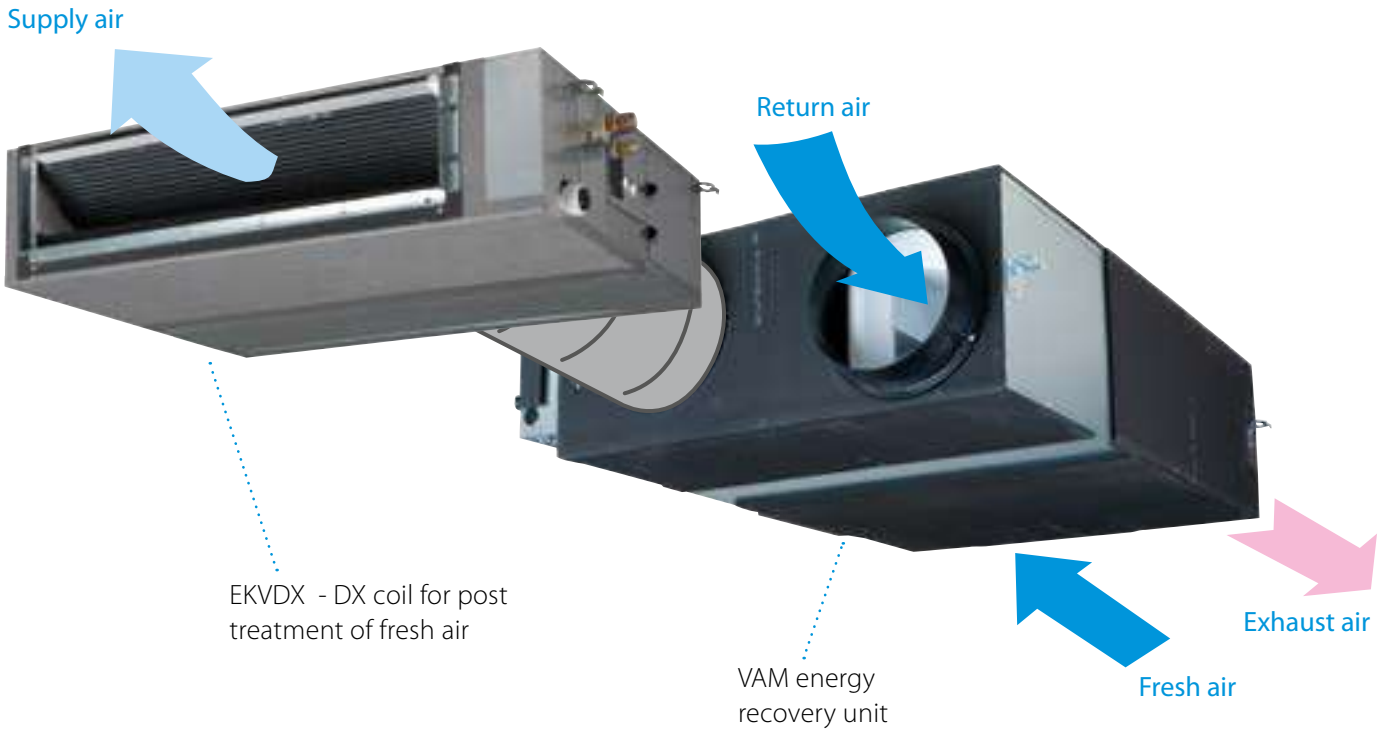
- Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Flexible setting 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	VAM350,500J8	VAM650J8, VAM800J8, VAM1000J8	VAM1500J8, VAM2000J8

			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				
		m^3/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				

EKVDX-A

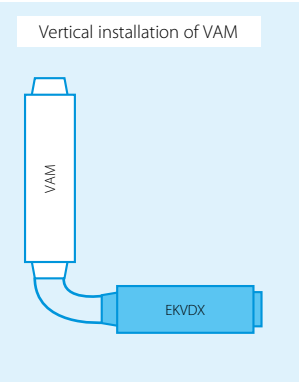
DX coil for post treatment of fresh air

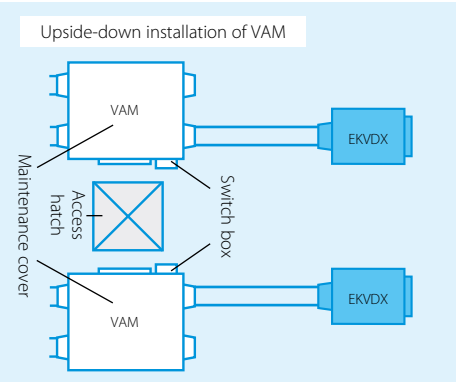


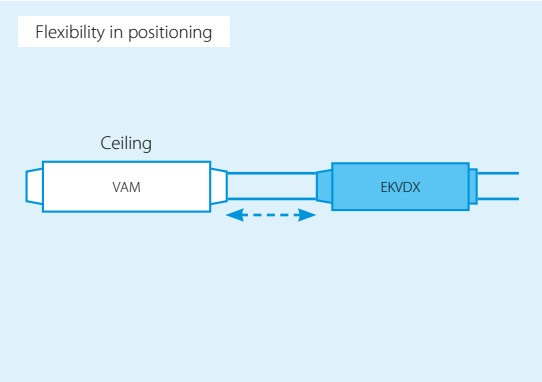
› Creates a high quality indoor environment by pre conditioning of incoming fresh air

› Maximum installation flexibility thanks to separate DX coil

• Different installation possibilities to suit the application







› Fresh air flows from 500 up to 2,000 m^3/h

› High ESP up to 150 Pa

› Can be integrated in both R-32/R-410A VRV systems

› Replaces VKM-GB range, delivering increased capacity range and reduced sound levels

DX coil for air processing

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

- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Maximum installation flexibility thanks to separate DX coil
- Wide range of units covering fresh air flows of 500 up to 2,000 m^3/h
- High ESP up to 150 Pa
- Can be integrated in both R-32/R-410A VRV systems

EKVDX50A

DX Module for VAM

					EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A
Power input - 50Hz	Cooling/Heating	Nom.		kW	0.035 / 0.035	0.035 / 0.035	0.035 / 0.035	0.035 / 0.035
Casing / Insulation	Material				Galvanised steel plate / Opcell and anti-sweat material			
Dimensions	Unit	Height		mm	250	250	250	250
		Width		mm	550	700	1000	1400
		Depth		mm	809	809	809	809
Weight	Unit			kg	19.0	23.4	30.1	37.7
Operation range	Around unit			°CDB	0 - 40	0 - 40	0 - 40	0 - 40
	On coil temperature	Cooling	Max.	°CDB	35	35	35	35
		Heating	Min.	°CDB	11	11	11	11
Piping connections	Liquid	OD		inch (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Gas	OD		inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Drain			mm	VP20 Outdoor Diamater 26. ID (diameter sign to be added)20)			
Refrigerant	Type				R410A/R32			
	GWP				2087.5/675			
Power supply	Phase / Frequency / Voltage			ph / Hz / V	1ph / (50/60) / 220-240			

				EKVDX32A + VAM500J8	EKVDX50A + VAM650J8	EKVDX50A + VAM800J8	EKVDX80A + VAM1000J8	EKVDX100A + VAM1500J8	EKVDX100A + VAM2000J8
Cooling capacity	Total (VAM+DX coil)	Ultra high fan speed	kW	5.10	7.10	8.60	9.30	15.40	18.40
	DX coil	Ultra high fan speed	kW	3.40	4.80	5.50	5.70	9.50	11.20
		High fan speed	kW	2.70	4.10	4.40	4.50	8.80	9.20
Heating capacity	Total (VAM+DX coil)	Ultra high fan speed	kW	6.70	8.50	11.00	11.90	18.70	22.90
	DX coil	Ultra high fan speed	kW	4.20	5.10	6.90	7.00	10.80	13.00
		High fan speed	kW	3.60	4.60	5.80	6.30	9.60	11.70
Air flow rate - 50Hz	Heat exchange mode	Ultra high	m^3/h	500.00	650.00	800.00	1000.00	1500.00	2000.00
		High	m^3/h	425.00	550.00	680.00	850.00	1275.00	1700.00
	Bypass mode	Ultra high	m^3/h	500.00	650.00	800.00	1000.00	1500.00	2000.00
		High	m^3/h	425.00	550.00	680.00	850.00	1275.00	1700.00
External static pressure - 50Hz		Maximum	Pa	81.00	73.00	133.00	106.00	154.00	92.50
		Ultra high	Pa	51.90	43.00	23.70	26.00	43.60	12.10
		High	Pa	39.00	33.90	19.40	21.40	35.10	11.90
Sound pressure level - 50Hz	Cooling	Ultra high (nominal)	dBA	32.00	34.00	35.50	40.50	38.50	43.50
		High (nominal)	dBA	30.50	32.00	34.00	38.00	37.00	40.00
	Heating	Ultra high (nominal)	dBA	32.50	34.50	36.00	40.50	39.00	44.00
		High	dBA	31.50	32.00	34.00	38.50	37.00	40.50
Current	Maximum fuse amps (MFA)		A	6.00	6.00	6.00	6.00	16.00	16.00

Energy recovery ventilation, humidification and air processing

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

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Low energy consumption thanks to DC fan motor
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO_2 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

VKM80-100GBM

Total Heat Exchanger with DX Coil and Humidification

					VKM50GBM	VKM80GBM	VKM100GBM
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high	kW	0.270	0.330	0.410
			High	kW	0.230	0.280	0.365
			Low	kW	0.170	0.192	0.230
Fresh air conditioning load	Cooling			kW	4.71	7.46	9.12
	Heating			kW	5.58	8.79	10.69
Humidifier	System				Natural evaporating type		
	Amount			kg/h	2.7	4.0	5.4
	Feed water pressure			MPa	0.02 ~ 0.49		
	Elements	Quantity			1		2
Dimensions		Height x Width x Depth		mm	387 x 1764 x 832	387 x 1764 x 1214	
Weight				kg	100	119	123
Temperature Exchange Efficiency		Ultra high / High / Low		%	76.0 / 76.0 / 77.5	78.0 / 78.0 / 79.0	74.0 / 74.0 / 76.5
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high	m^3/h	500	750	950
			High	m^3/h	500	750	950
			Low	m^3/h	440	640	820
			Ultra high	m^3/sec	0.139	0.208	0.264
			High	m^3/sec	0.139	0.208	0.264
			Low	m^3/sec	0.122	0.178	0.228
	External static pressure - 50Hz	Ultra high / High / Low		Pa	200 / 150 / 120	205 / 155 / 105	110 / 70 / 60
Sound pressure level 50Hz	Heat exchange mode	Ultra high / High / Low		dBA	38.0 / 36.0 / 34.0	40.0 / 37.5 / 35.5	40.0 / 38.0 / 35.0
Connection duct diameter				mm	200	250	
Piping connections	Liquid			Inch (mm)	1/4 (6.4)		
	Gas			Inch (mm)	1/2 (12.7)		
	Water supply			Inch (mm)	1/4 (6.4)		
	Drain				PT3/4 external thread		
Electrical Details	Power Supply			V / Hz / Phase	230 / 50 / 1		
	Running Current			A	3.25		
	Max Fuse Size			A	6		

Daikin's air handling units solutions

Find the ideal solution for your needs

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

One-stop shop

Daikin is the only global manufacturer in the market **capable of offering a true Plug & Play solution.** Daikin AHUs are manufactured by Daikin Applied Europe and certified by Eurovent, offering 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 m^3/h up to 140,000 m^3/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 harmonised control, between the VRV outdoor unit and the AHU, offer outstanding reliable operation of the system when connected to an iTM.

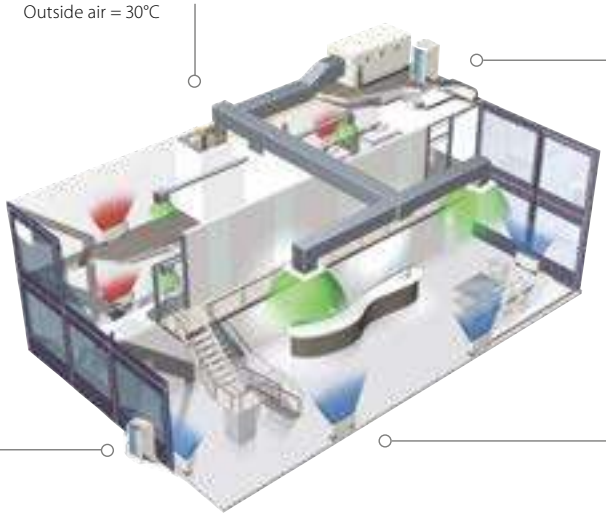
Advantages

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

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

High Efficiency

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



Fast response to changing loads resulting in high comfort levels

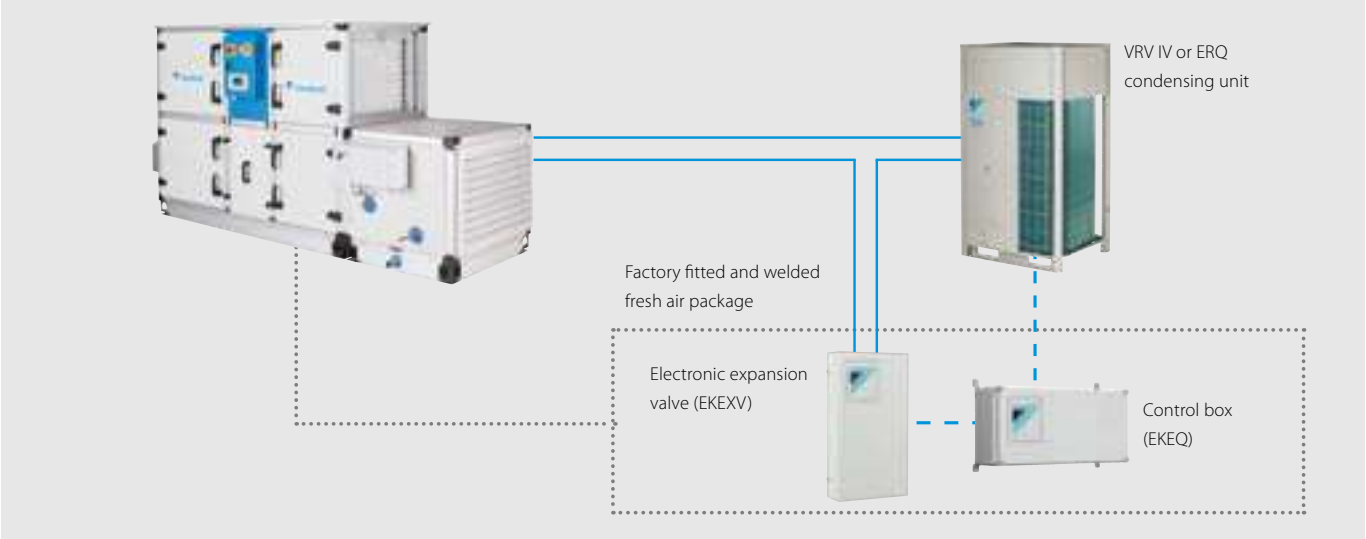
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

Easy design and installation

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

Daikin Fresh air package

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



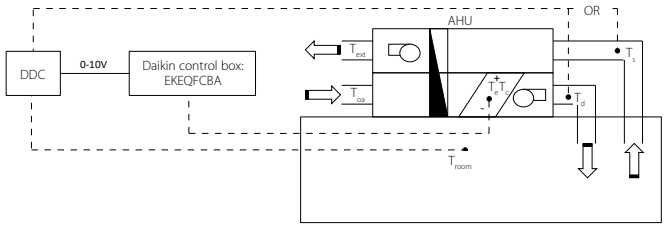
In order to maximise installation flexibility, four types of control systems are offered

W control: Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller, easy to setup
X control: Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

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

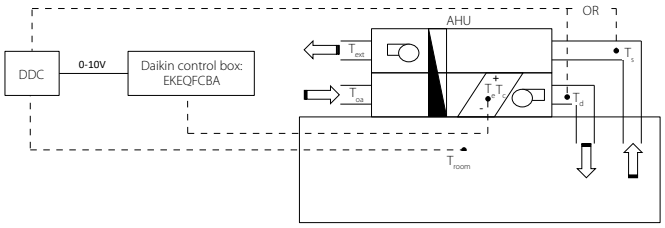
1. W control (T_d/T_s/T_{room} control):

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



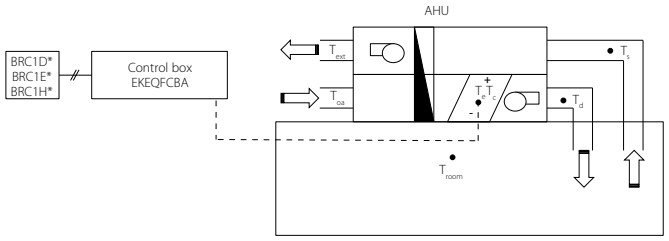
2. X control (T_d/T_s/T_{room} control):

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



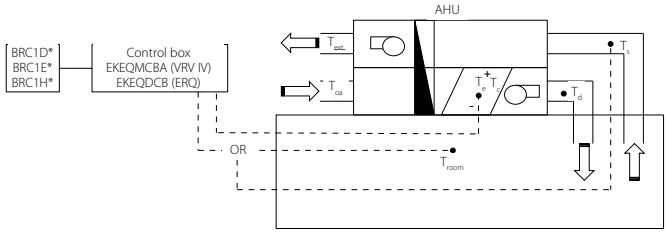
3. Y control (T_e/T_c control):

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_d / T_{room} control):

Control your AHU just like a VRV indoor unit (100% recirculation air application)
Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1* for operation. The only control that allows the combination of other indoor units to the AHU at the same time.



T_d = Discharge (supply) air temperature
T_s = Suction (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)

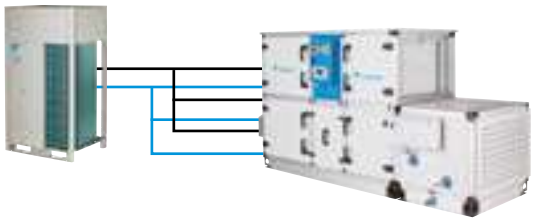
An advanced solution for both pair and multi application

› Inverter controlled units
› Heat pump
› Heat recovery only for mix application with indoor units without hydrobox. For 100% recirculation AHUs only used as a VRV indoor unit.
› R-410A
› Control of room temperature via Daikin control
› Large range of expansion valve kits available
› BRC1H* is used to set the set point temperature (connected to the EKEQMCBA).
› Connectable to all VRV heat recovery and heat pump systems (VRV H/R and VRV-i only connectable with Z control)

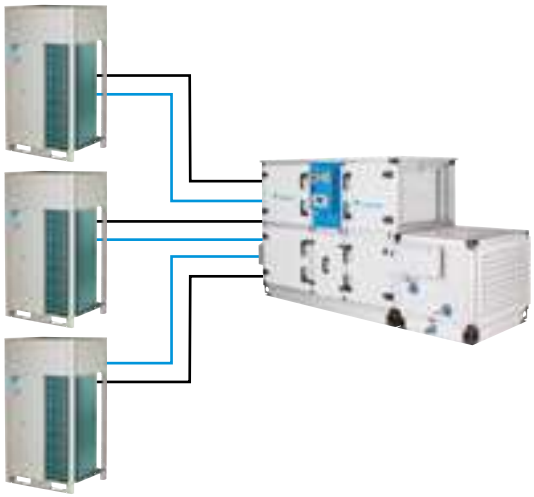
Pair application

One ERQ or VRV IV **heat pump** (system) connected to **one AHU** through **one** refrigerant **circuit**
› with W, X, Y and Z control
› not allowed for VRV H/R

One VRV IV **heat pump** (system) connected to the **interlaced coil** of one AHU through **several** refrigerant **circuits**
› with W, X and Y control
› not allowed for VRV H/R and VRV-i

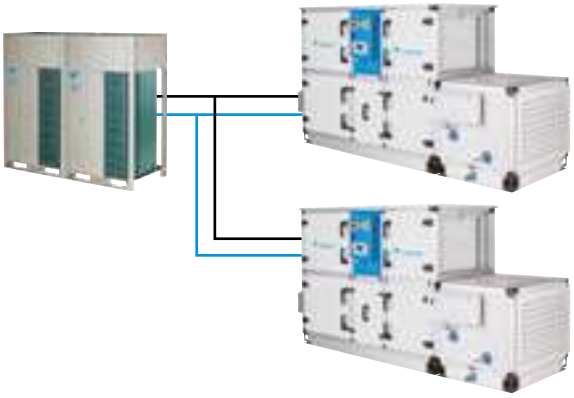


Several ERQ or VRV IV **heat pumps** connected to the **interlaced coil** of one AHU through **several** refrigerant **circuits**
› with W, X and Y control
› not allowed for VRV H/R and VRV-i



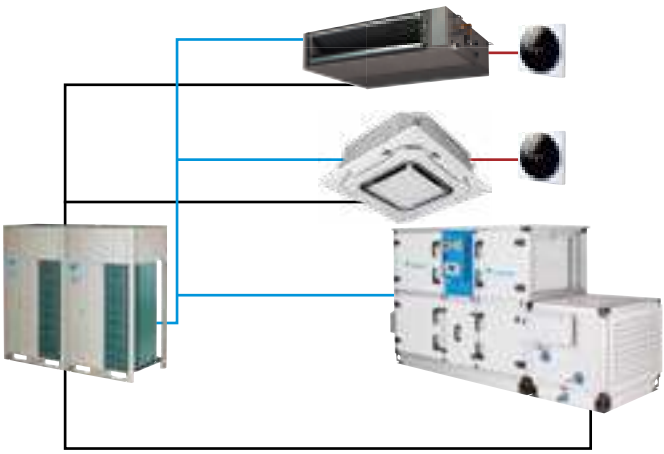
Multi application

One VRV IV **heat pump** connected to **several AHUs**
› with Z control
› not allowed for VRV H/R
› no interlaced coil possible



Mix application

VRV indoor units and AHU(s) mixed in the same VRV IV heat pump or heat recovery system
› with Z control
› no interlaced coil possible
› hydrobox not possible



Refrigerant piping
F1-F2
P1-P2

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

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

A basic fresh air solution for pair application

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

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

ERQ-AW1

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_2eq	8.4		
	GWP			2,087.5		
	Control			Expansion valve (electronic type)		
Piping connections	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_2eq	12.9	16.1	17.5
	GWP			2,087.5		
	Control			Electronic expansion valve		
Piping connections	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	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	
1-phase	ERQ100	P (1)	P	-	-	P	P	P	P	-	-	-	-	-	Not possible
	ERQ125	P (1)	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ140	P (1)	P	-	-	-	P	P	P	P	-	-	-	-	
3-phase	ERQ125	P (1)	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ200	P (1)	P	-	-	-	-	P	P	P	P	P	-	-	
	ERQ250	P (1)	P	-	-	-	-	-	P	P	P	P	-	-	
VRV IV H/P (RYYQ, RXYQ, RXYSQ, RXYTQ, RXYLQ, RWEYQ)		-	P	P (1) / n2 (1)											Possible (not mandatory)
VRV IV i-series		-	-												
VRV IV H/R		-	-	n1											Mandatory (no hydrobox)

- P (pair application) - One or more outdoor units connected to an (interlaced) coil of one AHU. To determine exact configuration please refer to the engineering data book.
- n1 (only mix application) - Combination of (multiple) AHU(s) and VRV DX indoor(s) is mandatory. To determine the exact configuration please refer to the engineering data book.
- n2 (mix or multi application) - Combination of (multiple) AHU(s) with (mix application) or without (multi application) VRV DX indoor(s). To determine the exact configuration please refer to the engineering data book.
- Control box EKEQFA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units or hydroboxes

(1) No interlaced coil possible with Z control

Capacity table

Cooling

EKEXV Class	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

EKEXV 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

EKEXV - Expansion valve kit for air handling applications

Ventilation			EKEXV	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 temperature	Heating Min.	°CDB	10 (1)									
		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			Pair	Pair	Pair/Multi/Mix
Outdoor unit			ERQ / VRV	ERQ	VRV
Dimensions	Unit	mm	132x400x200		
Weight	Unit	kg	3.9	3.6	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230		

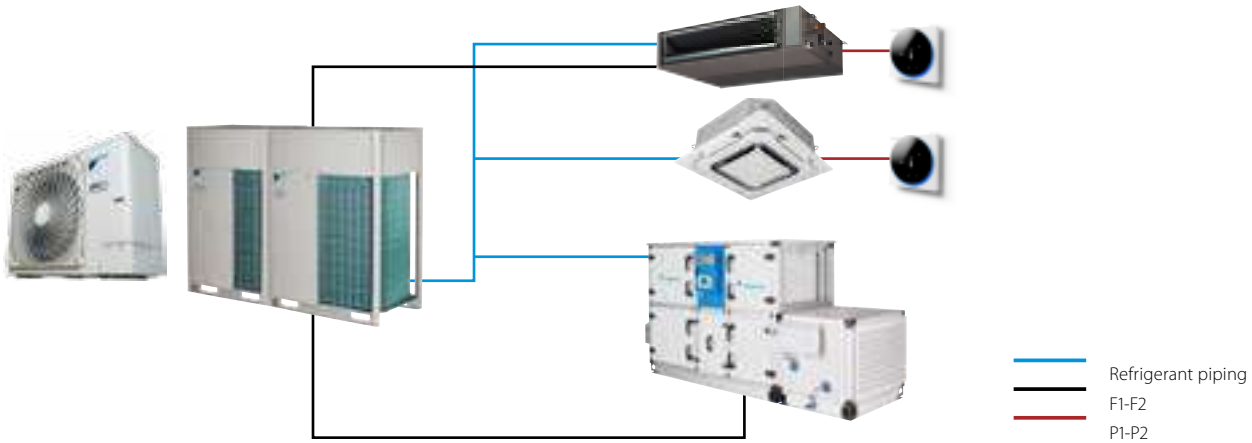
The combination of EKEQFCBA and ERQ is in pair application. The EKEQFCBA can be connected to some type of VRV IV outdoor units with a maximum of 3 control boxes. The combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor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

New generation of expansion valve kits and control boxes

Available from
Autumn
2023

Integrating third party Air Handling Units in the VRV 5 total solution (EKEXVA* / EKEA*)

VRV 5
BLUEVOLUTION



- Unified EXV range connectable to both VRV 5 R-32 and VRV IV / ERQ R-410A units
- 3 new EXV capacities: 300, 350 and 450, allowing maximum flexibility
- Unified control box, offering all existing W,X,Y,Z controls + new advanced Z control
- Complete peace of mind as Daikin provides all required tools to ensure compliance to the IEC product standard
- Extension of operation range of EKEA: Outside installation possible down to -25°C
- Lower connection ratio limit for pair application

SHÎRUDO TECHNOLOGY

Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

› For areas where additional, extra high, filtration performance is needed.
› Airflow rate up to 2,000 m^3/h
› HEPA H14 filter in accordance with EN1822
› Pre-filter options up to ISO Coarse 70%
› Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
› Easy installation, operation, and maintenance in a totally self-contained system
› For commercial areas up to 200m^2

Applications

Schools and Universities

Commercial Buildings

Healthcare

Hospitality

Shops and Shopping malls

Models

Model	BR00000554	BR00000749	BR00000676	BR00000751
Plug type	EU	UK	EU	UK
HEPA Filter (H14)	✓		✓	
LCD Screen			✓	
Activ. Carbon (Gas phase) pre-filter			✓	

Providing high-efficiency 2-stage filtration

Standard prefilter

All units are delivered with a prefilter, increasing filter life and protecting the installed HEPA filter

RedPleat - 4531002424
› Delivered with BR00000554/749
› ISO 16890: ISO coarse 70%
› Available with Antimicrobial treated media (RedPleat ULTRA)

RedPleat Carb - 4139002424
› Delivered with BR00000676/751
› ISO 16890: ISO coarse 65%
› Effectively removes offensive odours

Main filter

The HEPA filter features eFRM filtration media which combines ultra-high efficiency and particulate loading to remove 99.99% of dust, pollen, mould, bacteria, viruses, and any airborne particle with a size of 0.3 microns or greater.

AstroCel III - 1493299990

› H14 filtration efficiency according EN 1822
› V-shaped filter configuration, combined with microglass media, delivers higher flow and the lowest possible pressure drop vs traditional box style HEPA filters
› Compatible with Discrete Particle Counter (DPC) and photometric test methods as access and instrumentation allow

BR00000554/676/749/751

Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- Airflow rate up to 2,000 m^3/h
- HEPA H14 filter in accordance with EN1822
- Optional touch sensitive LCD Display (BR00000676/751)
- Insulated double-wall construction provides whisper-quiet operation
- Activated carbon filter
- Sliding tray design provides easy access and servicing of filters
- Designed with internal variable fan speed (electronically commutated) to meet specific application requirements
- Suitable for in-room use or sheltered outdoor installation
- CE-compliance, VDI 6022 guided design

BR00000678/752

Specifications:

Model			BR00000749	BR00000751
Maximum Air Flow Rate		m^3/h	2000	2000
Variable Speed Control			Yes	Yes
Dimensions	Height x Width x Depth	mm	1630 x 770 x 770	1630 x 770 x 770
Weight		kg	165	165
Electrical Details			1 Phase, 230V, 50hz	
Fan	Type		EC centrifugal fan, backward-curved, single-intake	
Filter	Pre-Filter Standard (Height x Width x Depth)	mm	ISO Coarse 70% (592 x 592 x 45)	ISO Coarse 70% (592 x 592 x 45)
	Pre-Filter Optional		ISO ePM10 70%	ISO ePM10 70%
	Gas Phase Filter Optional		-	ISO Coarse 65%
	Main Filter (Height x Width x Depth)	mm	HEPA H14 (610 x 610 x 292)	HEPA H14 (610 x 610 x 292)
LCD Screen				Yes
Sound Pressure (min/max)		dBA	35-52	35-52
Operating Conditions			0-50°C, H0 dry environment, ambient air ≤ 90%RH	

Connect with Daikin

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

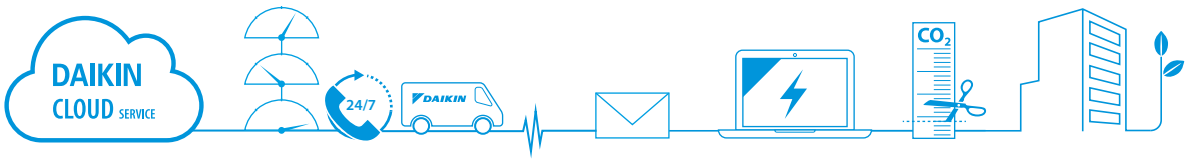
White Silver Black

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

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

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

Remote monitoring



Control Systems

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Wired room temperature sensor 202

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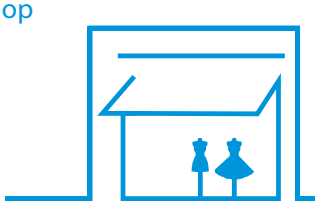
Control solutions summary

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

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

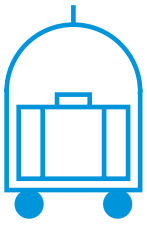
Shop

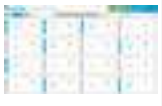


	Unit control			Integrating control			Advanced control	
								
	BRP069*	BRC1H52W/S/K	RTD-20	RTD-Net	KLIC DI V2	EKMBDXA	DCC601A51	DCM601B51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	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	
					
	BRC1H52W/S/K	RTD-HO	KLIC DI V2	DCM010A51	DCM601B51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	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					●

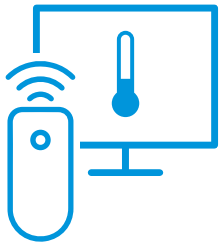
(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter (3) requires KNX compatible controller

Office

	Unit control	Integrating control			Advanced control	
			 LonWorks Interface	 BACnet Interface		
	BRC1H52W/S/K	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601B51
	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)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●
Centralised control for management		●	●	●	●	●
Local control for office staff	●				● (4)	● through Web Remote management
Limit control possibilities for office staff	●	●	●	●	●	●
Integrate Daikin units into existing BMS via Modbus		●				
Integrate Daikin units into existing BMS via HTTP						●
Integrate Daikin units into existing BMS via LonTalk			●			
Integrate Daikin units into existing BMS via BACnet				●		
Energy consumption read out	● (3)					
Monitor energy consumption					● (4)	●
Advanced energy management					● (4)	●
PPD software to distribute used kWh/indoor unit				● (6)		● (7)
Integrate Daikin cross pillar products into Daikin BMS						●
Integrate third party products into Daikin BMS					●	●
Online control					● (4)	●
Manage multiple sites					● (4)	● (5)

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

Infrastructure cooling



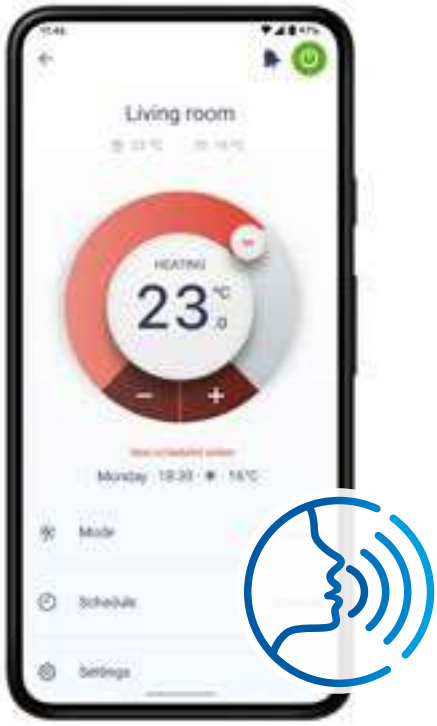
	Unit	Integrating	Advanced
			
	BRC1H52W/S/K	RTD-10	DCM601B51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●
Back-up operation	●	●	●
Duty rotation	●	●	●
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

Onecta App

Now available with voice control

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



onecta

NEW

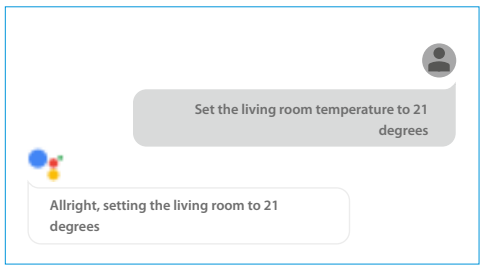
Voice control

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

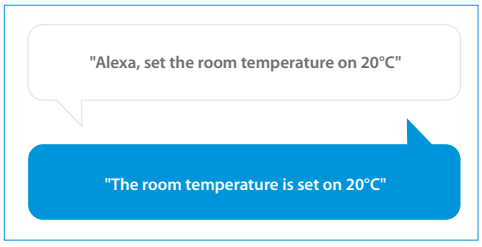
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

amazon alexa



Example of using the voice control via Google Assistant



Example of using the voice control via Amazon Alexa

Schedule

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

- ☑ Schedule room temperature and operation mode
- ☑ Enable holiday mode to save costs

Control

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

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production

Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- ☑ Check the status of the heating system
- ☑ Access energy consumption graphs (day, week, month)

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

App Store | Google Play

Scan the QR code to download the app now

Onecta connectable units

BRP069C51 *

VRV 5 indoor units

- › FXFA-A
- › FXZA-A
- › FXDA-A
- › FXSA-A
- › FXAA-A
- › FXMA-A
- › FXHA-A
- › FXUA-A

* Must be combined with BRC1H52W/S/K

Madoka wired remote controller

Madoka

The beauty of simplicity

Silver
RAL 9006 (metallic)
BRC1H52S

Black
RAL 9005 (matte)
BRC1H52K

White
RAL9003 (glossy)
BRC1H52W

User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

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

NEW › CO_2 concentration visualisation

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.
- ☑ Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- ☑ Easy and quick commissioning
- ☑ Featuring Bluetooth® low energy technology

Easy setting of schedules

Advanced user settings

NEW
Bluetooth strength indication

Field settings

BRC1H52W / BRC1H52S / BRC1H52K

Madoka wired remote controller for Sky Air and VRV

BRC1H52W
Symbollic view

BRC1H52S
Standard view

BRC1H52K
CO_2 visualisation

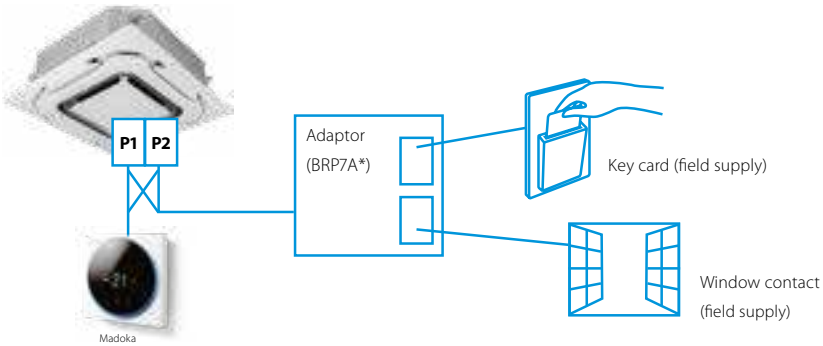
A complete redesigned controller focussed to enhance user experience

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

Hotel application features

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

Key card and window contact integration



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

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

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

Kilowatt-hour consumption tracking (2)

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

Other functions

› NEW Three user access levels: Basic user, Advanced and Installer to match user requirements and prevent improper use.
› Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
› NEW Mark frequently used menus as favourites for direct access
› 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

DUTY ROTATION

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.

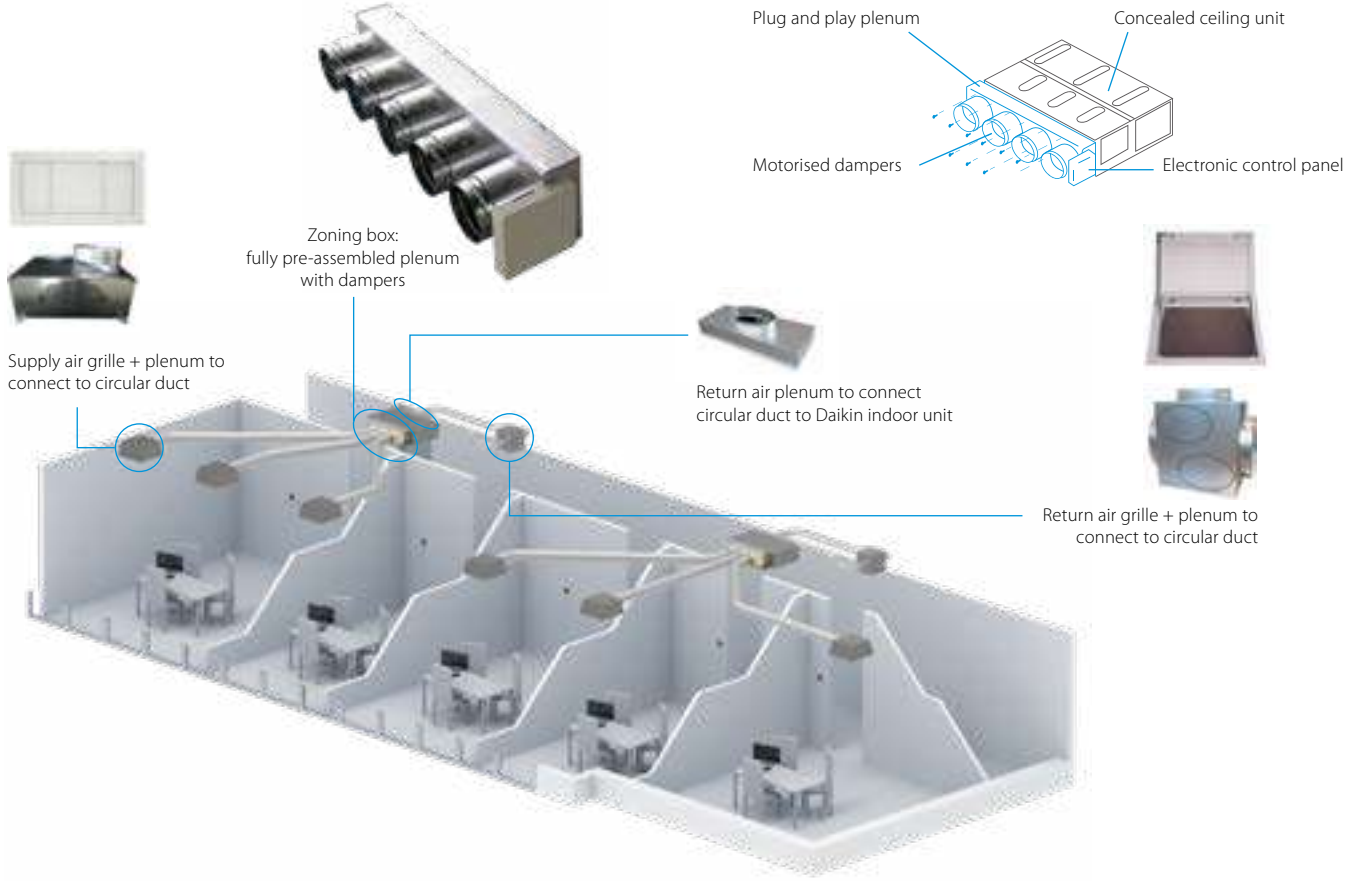
› Back-up operation: if one unit fails, the other unit will start automatically

(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*

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 eight zones connected to one indoor unit via a centralised thermostat located in the main room and individual thermostats for each of the zones.

Easy selection via our NEW software!



Compatibility

Number of motorised dampers		Reference	Dimensions H x W x D (mm)	Ø (mm)	SkyAir FDXM-F9 25	35	50	60	SkyAir FBA-A(9) 35	50	60	71	100	125	140	SkyAir ADEA-A 71	100	125	VRV IV+ FXDQ-A3 15	20	25	32	40	50	63	VRV IV+ FXSQ-A 15	20	25	32	40	50	63	80	100	125	140
Standard plenum	2	AZE(Z/R)6DAIST07XS2	300 x 930 x 454	200																						•	•	•	•						
		AZE(Z/R)6DAIST07S2							•	•																			•	•					
	3	AZE(Z/R)6DAIST07XS3																								•	•	•	•						
		AZE(Z/R)6DAIST07S3							•	•																			•	•					
	4	AZE(Z/R)6DAIST07S4	300 x 1,140 x 454						•	•																			•	•					
		AZE(Z/R)6DAIST07M4									•	•				•															•	•			
	5	AZE(Z/R)6DAIST07M5	300 x 1,425 x 454								•	•				•															•	•			
		AZE(Z/R)6DAIST07L5											•	•	•		•	•															•	•	
	6	AZE(Z/R)6DAIST07M6	300 x 1,638 x 454								•	•				•															•	•			
		AZE(Z/R)6DAIST07L6											•	•	•		•	•															•	•	
	7	AZE(Z/R)6DAIST07L7	515 x 1,425 x 454										•	•	•		•	•															•	•	
		AZE(Z/R)6DAIST07XL7																																	•
	8	AZE(Z/R)6DAIST07L8											•	•	•		•	•															•	•	
		AZE(Z/R)6DAIST07XL8																																	•
Medium plenum	2	AZE6DAIBS07XS2	250 x 930 x 454	200																						•	•	•	•						
		AZE6DAIBS07S2							•	•																			•	•					
	3	AZE6DAIBS07XS3																								•	•	•	•						
		AZE6DAIBS07S3							•	•																			•	•					
		AZE6DAIBS07M3									•	•				•															•	•			
	4	AZE6DAIBS07S4	250 x 1,140 x 454						•	•																			•	•					
		AZE6DAIBS07M4									•	•				•															•	•			
		AZE6DAIBS07L4											•	•	•		•	•															•	•	
	5	AZE6DAIBS07S5	250 x 1,425 x 454						•	•																			•	•					
		AZE6DAIBS07M5									•	•				•															•	•			
		AZE6DAIBS07L5											•	•	•		•	•															•	•	
		AZE6DAIBS07XL5																																	•
	6	AZE6DAIBS07M6	250 x 1,638 x 454								•	•				•															•	•			
		AZE6DAIBS07L6											•	•	•		•	•															•	•	
		AZE6DAIBS07XL6																																	•
Slim plenum	2	AZE(Z/R)6DAISL01S2	210 x 720 x 444	200	•	•													•	•	•	•													
	3	AZE(Z/R)6DAISL01S3			•	•													•	•	•	•													
	4	AZE(Z/R)6DAISL01M4	210 x 930 x 444																				•	•											
	5	AZE(Z/R)6DAISL01L5	210 x 1,140 x 444				•	•																	•										

(1) Z models are reversible; R models are heating only
(2) Medium Ceiling Void reversible units can be blocked to heating only via AZX6MCS module

Controls

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

AZCE6BLUEZEROCB (Wired)

Bluezero - main thermostat
› Intuitive graphical, colour touch screen for controlling multiple zones

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), 15 m length: AZX6CABLEBUS15, 100m length: AZX6CABLEBUS100


AZX6WSPHUB


AZX6WSC5GER

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
› Supports Ethernet and WIFI
› AZX6WSPHUB:
  › For installation on DIN rail
  › 32 zoning boxes can be controlled
› AZX6WSC5GER:
  › For installation in the unit
  › Controls one zoning box


AZX6WSPBAC


AZX6KNXGTWAY

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

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

Mini BMS

with full integration across all product pillars

DCM601B51

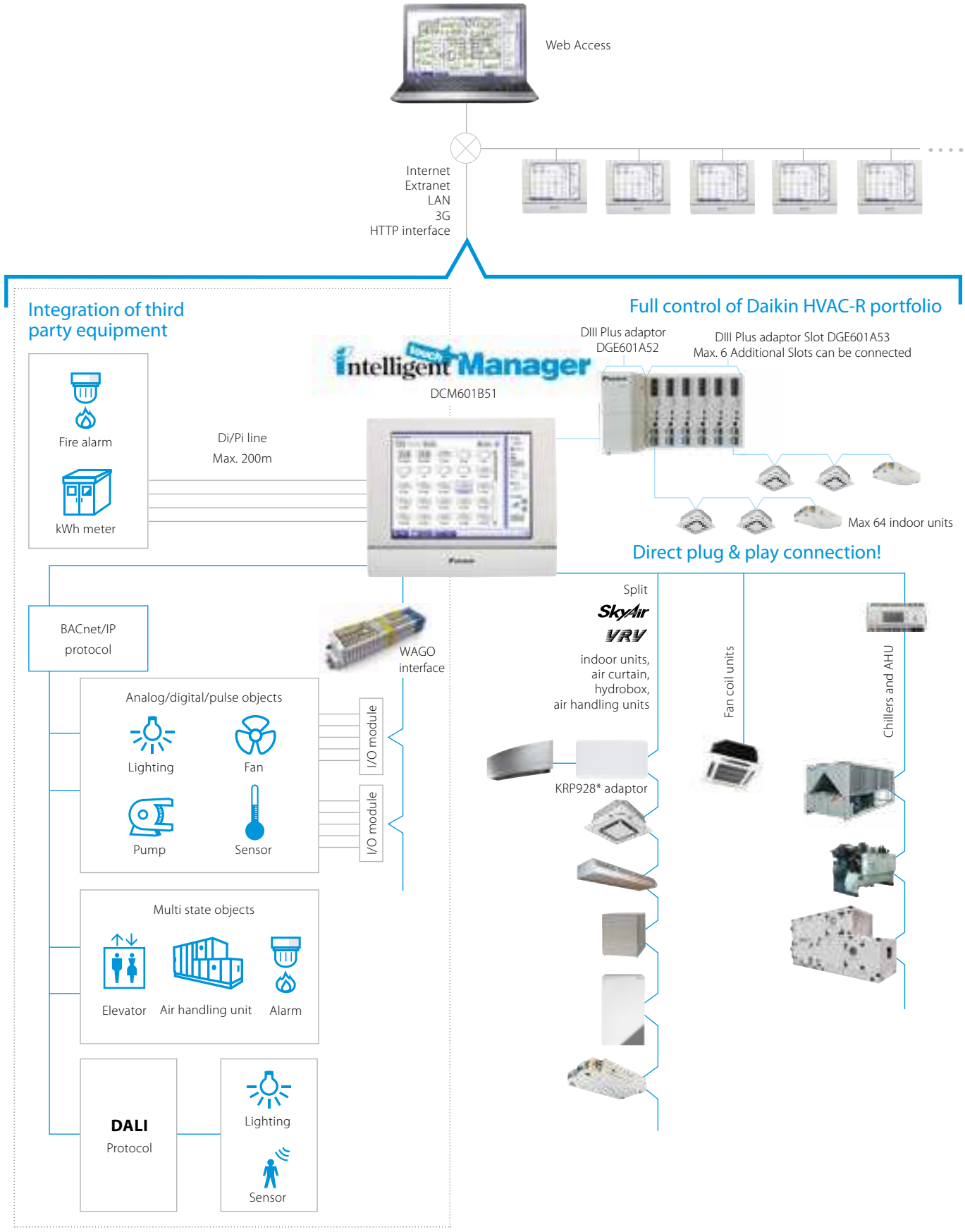
- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment

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 YouTube
https://www.youtube.com/DaikinEurope

System overview



touch intelligent Manager

User-friendly controls

› 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
› Simplified electrical wiring, only one power supply and one connection wiring required

Smart energy management

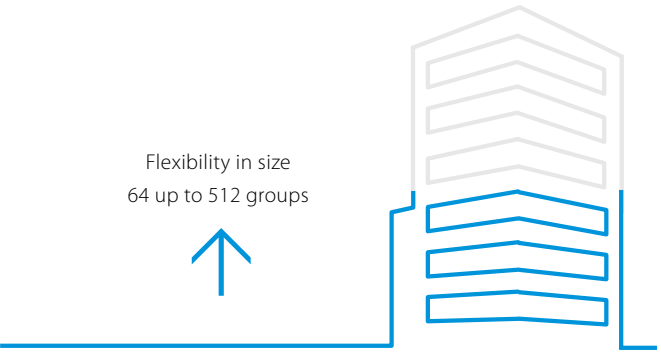
› Monitoring if energy use is according to plan
› Helps to detect origins of energy waste
› Powerful schedules guarantee correct operation throughout the year
› Save energy by interlocking A/C operation with other equipment such as heating
› Peak Power Cut off Control: Activating this feature in schedule function allows users to operate the outdoor unit in 4 settings i.e. 100%,70%, 40% and 0%

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


Split

SkyAir

VRV


Fan coils


Chillers and AHU


HRV ventilation

BACnet/IP protocol

DALI Protocol
Lighting
Sensor

Lighting
Air handling unit
Pump
Elevator
Fan
Alarm
Sensor


WAGO I/O

Lighting
Fan
Pump
Sensor

Functions overview

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

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

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

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

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

Control
- Individual control (512 groups)
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- Interlock control
- Setpoint limitation
- Temperature limit
- Schedule function to activate quiet operation mode on outdoor unit

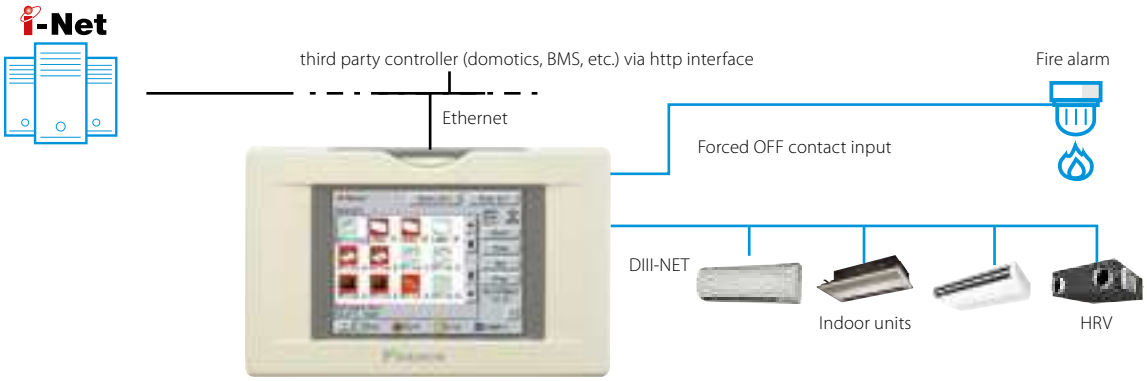
DALI integration
- Control and monitor the lights
- Easier facility management: receive error signal when light or light controller has a malfunction
- Flexible approach and less wiring needed, compared to classic light scheme
- Easier to make groups and control scenes
- Connection between intelligent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

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

DCS601C51

touch intelligent Controller

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



Languages
- English
- French
- German
- Italian
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- Dutch
- Portuguese

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

Control
- Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
- Set back shedule
- Enhanced scheduling function (8 schedules, 17 patterns)
- Flexible grouping in zones
- Yearly schedule
- Fire emergency stop control
- Interlocking control
- Increased HRV monitoring and control function
- Automatic cooling / heating change-over
- Heating optimisation
- 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)

RTD

Modbus Interface

RTD-RA

› Modbus interface for monitoring and control of residential indoor units

RTD-NET

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

RTD-10

› Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
- Modbus
- Voltage (0-10V)
- Resistance

› Duty/standby function for server rooms

RTD-20

› Advanced control of Sky Air, VRV, VAM/VKM and air curtains
› Clone or independent zone control
› Increased comfort with integration of CO_2 sensor for fresh air volume control
› Save on running costs via
- pre/post and trade mode
- set point limitation
- overall shut down
- PIR sensor for adaptive deadband

RTD-HO

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

RTD-W

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

DCOM-LT/MB

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

DCOM/LT-IO

› Voltage & resistance control in addition to Modbus

Overview functions





Main functions			RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions	H x W x D	mm	80 x 80 x 37.5	100 x100 x 22			
Key card + window contact							✓
Set back function			✓				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)			✓	✓	✓	✓**	✓
Modbus (RS485)			✓	✓	✓	✓	✓
Group control			✓(1)	✓	✓	✓	✓
0 - 10 V control					✓	✓	
Resistance control					✓	✓	
IT application			✓		✓		
Heating interlock					✓	✓	
Output signal (on/defrost, error)					✓	✓****	✓
Retail application						✓	
Partitioned room control						✓	
Air curtain				✓***	✓***	✓	

(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	H x W x D	mm	100x100x22
On/off prohibition			✓
Modbus RS485			✓
Dry contact control			✓
Output signal (operation error)			✓
Space heating / cooling operation			✓
Domestic hot water control			✓
Smart Grid control			

Control functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot water ON	
Domestic Hot Water reheat	M,C
Domestic Hot Water reheat setpoint	
Domestic Hot Water storage	M
Domestic Hot Water Booster setpoint	
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
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

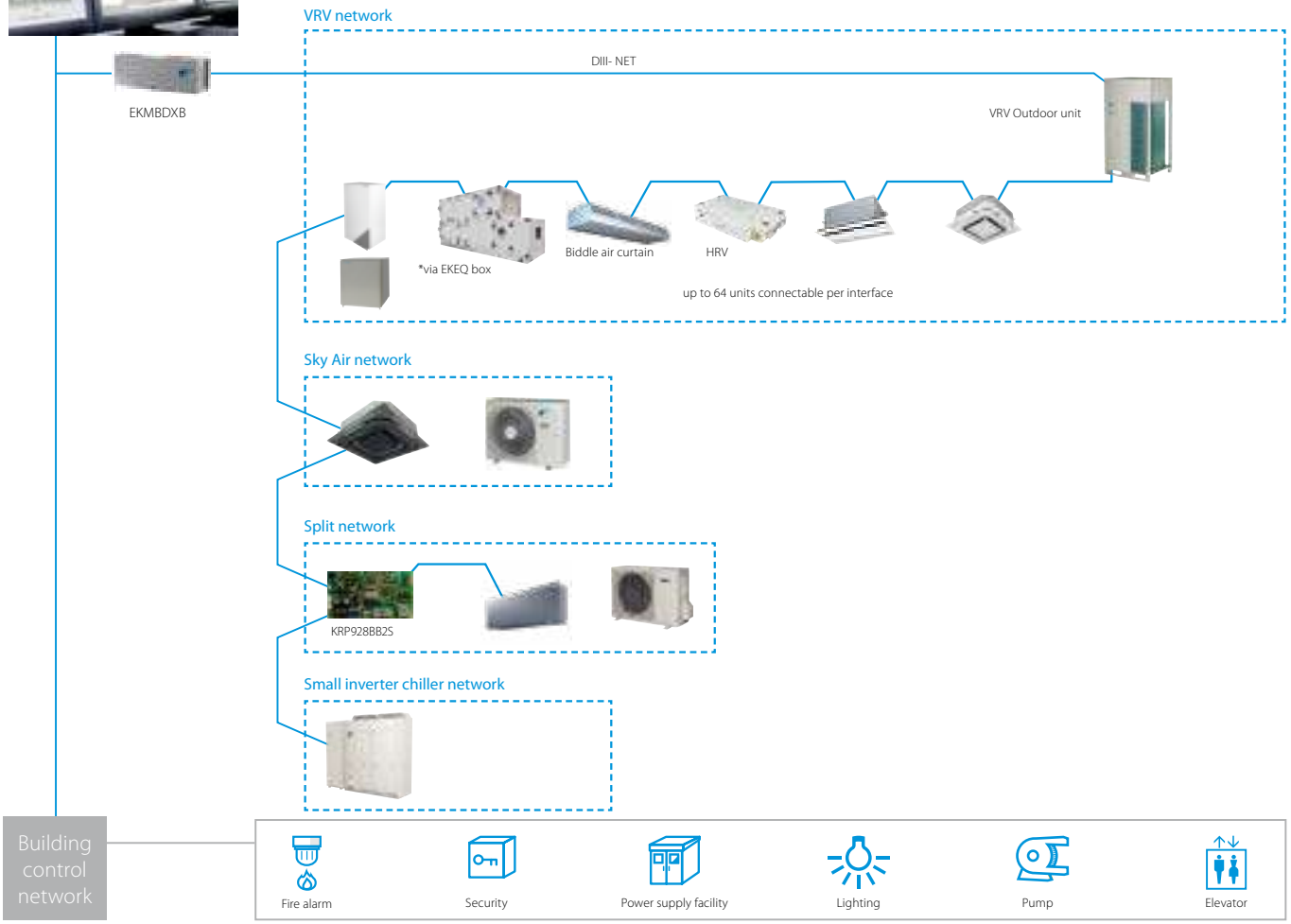
M : Modbus / R: Resistance / V: Voltage / C: control
* : only when room is occupied / ** : setpoint limitation / (*) if available
*** : no fan speed control on the CYV air curtain / **** : run & fault

EKMBDXB

DIII-net Modbus interface

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

› Communication via Modbus RS485 protocol
› Detailed monitoring and control of the VRV total solution
› Easy and fast installation via DIII-net protocol
› As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).



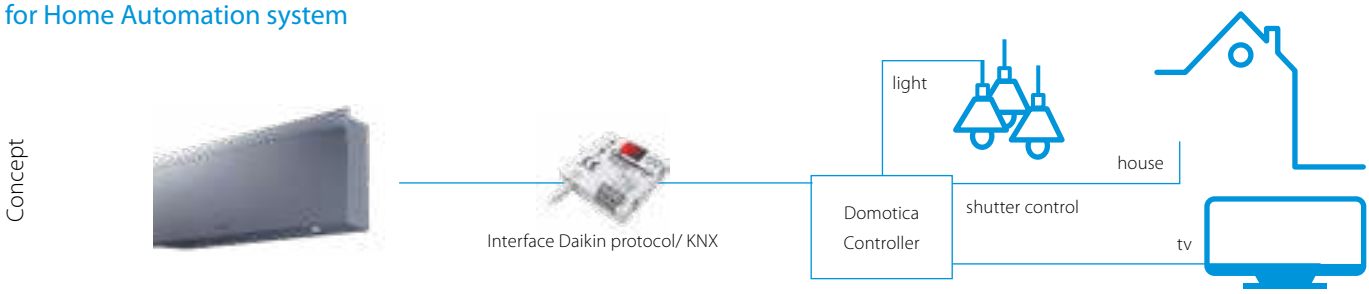
			EKMBDXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9,600 bps or 19,200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KLIC-DDV3
KLIC-DI_V2

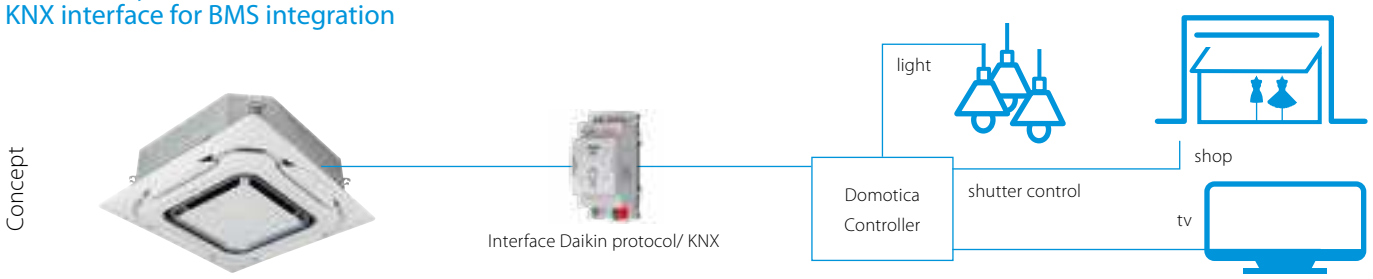
KNX interface

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

Connect split indoor units to KNX interface for Home Automation system



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



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-DDV3 size 45x45x15mm	 KLIC-DI_V2 size 90x60x35mm	
	Split	**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		●	●

DCM010A51

PMS Interface

Hotel interface connecting Daikin HVAC

Property Management Systems

Features

- User-friendly interface for easy front desk support in hotels, conference centres etc.
- 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 customised operation profiles based on weather conditions
- Available in 23 languages
- Up to 2,500 units / rooms can be managed
- The Daikin PMS is using the FIAS protocol, designed by Oracle, to interface with the Property Management System.

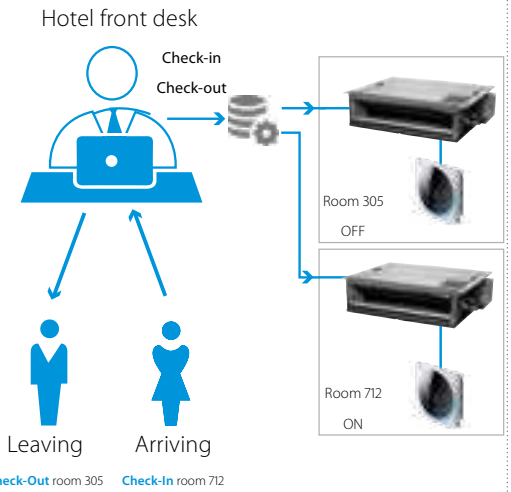
Room view showing room status: check-in, check-out, pre-heating / cooling status, room temperature and A/C status

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

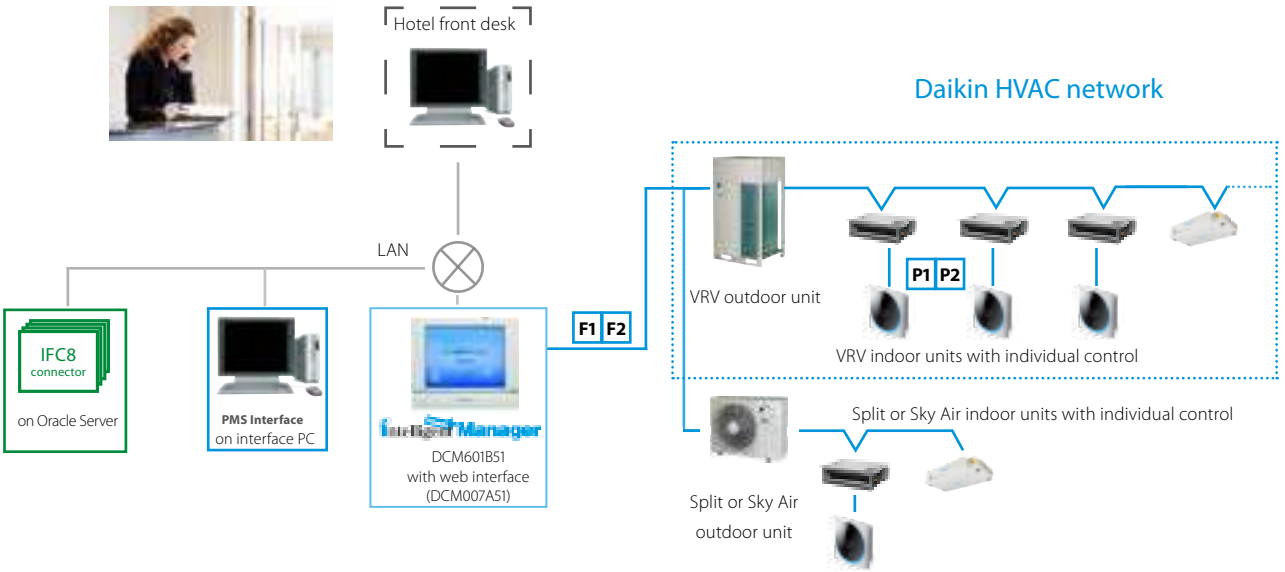
Multiple room types (bed-room, meeting room, …) can be defined with customised A/C settings for each type

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



Simplified configuration of Daikin PMS interface

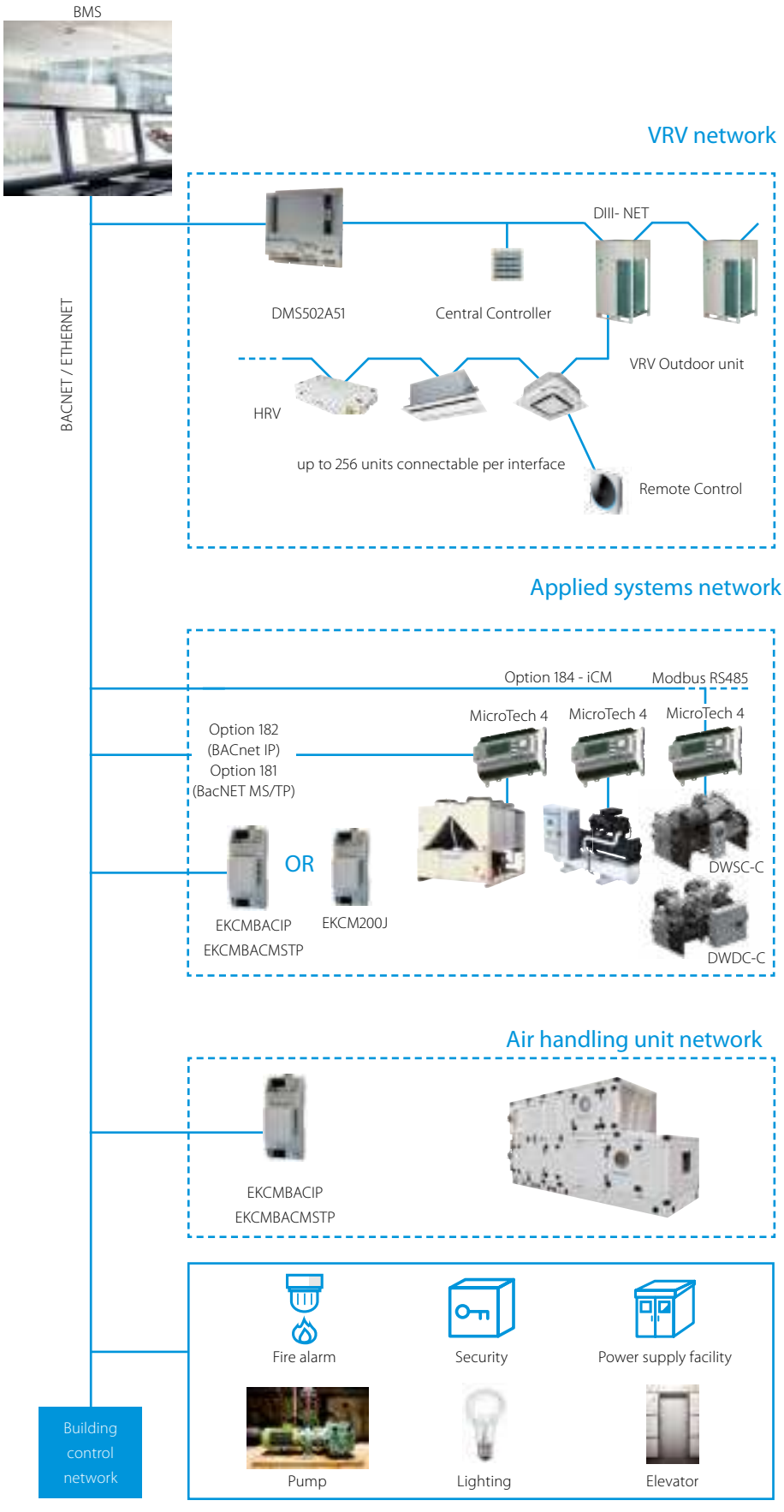


DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- Unlimited site size
- Easy and fast installation
- PPD data is available on BMS system (only for VRV)

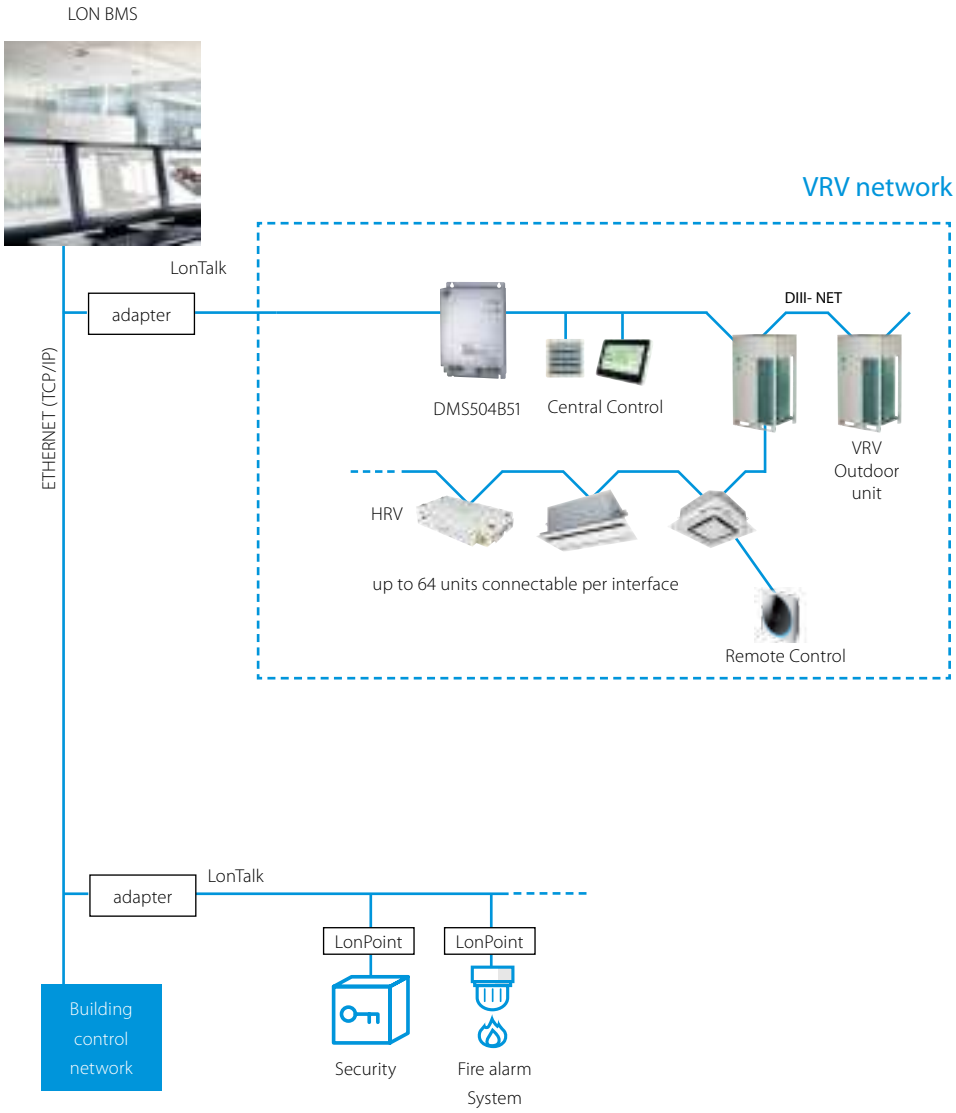


DMS504B51

LonWorks Interface

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

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- Unlimited sitesize
- Quick and easy installation



EKPCCAB4

Daikin Configurator Tool + Software

Simplified commissioning: graphical interface to configure, commission and upload system settings

Simplified commissioning

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

› Less time is required on the roof configuring the outdoor unit
› Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
› Initial settings on the outdoor unit can be easily retrieved

Simplified commissioning

Retrieve initial system settings

K.RSS

Wireless room temperature sensor

Flexible and easy installation

› Accurate temperature measurement thanks to flexible placement of the sensor
› No need for wiring
› No need to drill holes
› Ideal for refurbishment

Connection diagram Daikin indoor unit PCB (FXSQ example)

Specifications

			Wireless room 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.

KRCS*

Wired room temperature sensor

› Accurate temperature measurement, thanks to flexible placement of the sensor
› Specific model code for each indoor unit can be found in the option tables

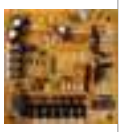
Specifications

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		●	●
	**SB.KRP58M2**	› Low noise and demand control option for RZAG-N* and RZASG-M* series. › Obligatory mounted plate EKMKSA2 needs to be ordered separately		●	
	**KRP58M51**	› Low noise and demand control option for RZA-D series. › Includes obligatory mounted plate EKMKSA3 › Obligatory mounting plate EKMKSA3 needs to be ordered separately		●	
	**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	●		
	**KRP980*** Adapter for split units without an S21 port	› Connect a wired remote control › Connect to Daikin central controls › Allow external contact	●		
	**KRP413*** Wiring adapter normal open contact / normal open pulse contact	› Switch off auto restart after power failure › Indication of operation mode / error › Remotely start / stop › Remotely change operation mode › Remotely change fan speed	●		

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

Accessories

EKRORO		› 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

NEW Tightfit fireless joint 206
VRV 5 outdoor 208
VRV 5 indoor 211
VRV IV outdoor 212
VRV IV indoor 217
Ventilation 218
Control systems 220

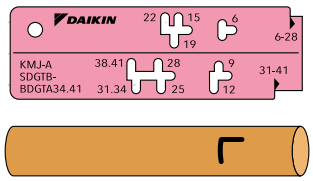
Tightfit

NEW

Daikin Tightfit is a non-brazed connection suitable for refrigerant piping. Pipes can be joined easily and quickly without brazing or using any special tools. It meets stringent safety requirements and provides leak-free tightness.

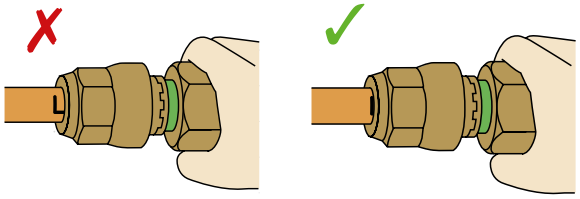
- Double edged claw catches the pipe to form tight, mechanical sealing
- Two types of connectors suitable for most pipe sizes and applications
- Specially developed REFNET allows direct connection to Tightfit joints
- Unique mechanical and resin sealings prevent any leak.
- Extremely durable: can withstand up to four times (17.2MPa) the maximum operating pressure of R-32 refrigerant

Installation in four easy steps



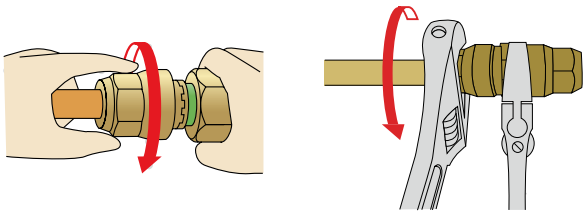
1 Mark the insertion line

Mark the insertion 'T' or 'L' standard line with the marking gauge and marker pen at the proper position of each pipe size.



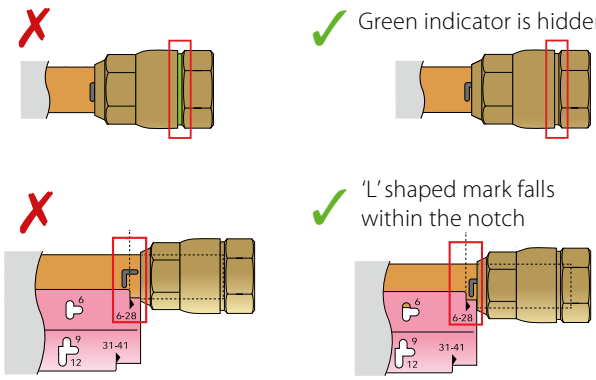
2 Insert the pipe

1. Insert firmly by hand until the pipe stops.
2. Make sure that the insertion standard line is no longer visible.



3 Tighten the nut

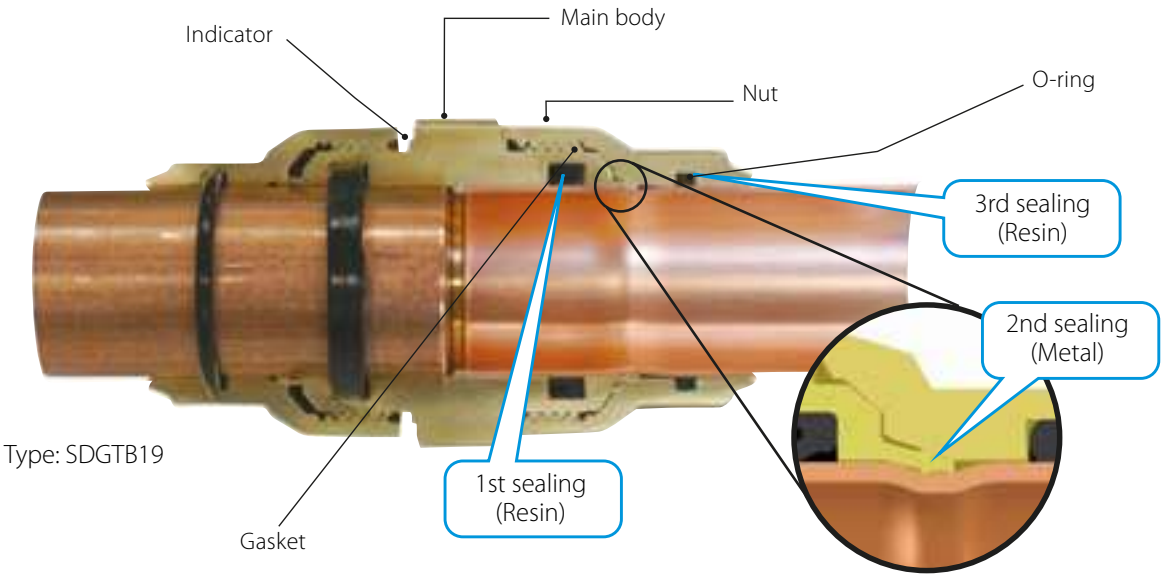
1. Hold the main body and tighten the nut by hand
2. Hold the main body and tighten the nut with a monkey wrench, until the green indicator disappears and the nut comes into contact with the flat face of the body.



4 Check

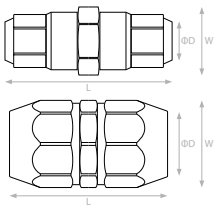
1. Green indicator should be hidden.
2. Place the marking gauge on the end face of the nut and make sure that the 'T' or 'L' shaped mark falls completely within the notch in the marking gauge.

Tightfit Mechanism



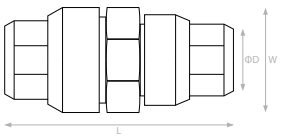
Range and specifications

Standard joints (same size piping on each side)



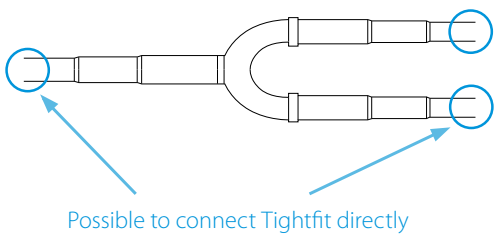
Box Model Name	No. of joints/box	Dimensions			
		D Ø	L (mm)	W (mm)	Single Weight (g)
UK.SDGT-1/4	10	1/4" (6.4mm)	50.4	15	43
UK.SDGT-3/8	10	3/8" (9.5mm)	55	19.9	79
UK.SDGT-1/2	10	1/2" (12.7mm)	59	23.5	113
UK.SDGT-5/8	10	5/8" (15.9mm)	74	30	210
UK.SDGT-3/4	5	3/4" (19.1mm)	76.8	34.6	273
UK.SDGT-7/8	5	7/8" (22.2mm)	83.4	40.2	292
UK.SDGT-1_1/8	5	1 1/8" (28.6mm)	88	46.7	515
UK.DGT-1_3/8	5	1 3/8" (34.9mm)	101.5	51.1	686
UK.DGT-1_5/8	5	1 5/8" (41.3mm)	103.5	58.3	881

Asymmetry joints (different size piping on each side)



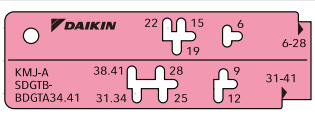
Box Model Name	No. of joints/box	Dimensions			
		D Ø	L (mm)	W (mm)	Single Weight (g)
UK.SDGT-1/4_3/8	10	1/4"-3/8" (6.4-9.5mm)	52.7	19.9	67
UK.SDGT-3/8_1/2	10	3/8"-1/2" (9.5-12.7mm)	57.5	23.5	101
UK.SDGT-1/2_5/8	10	1/2"-5/8" (12.7-15.9mm)	65	30	164
UK.SDGT-5/8_3/4	10	5/8"-3/4" (15.9-19.1mm)	76.8	34.6	244
UK.SDGT-3/4_7/8	5	3/4"-7/8" (19.1-22.2mm)	81.5	40.2	358
UK.SDGT-7/8_1	5	7/8"-1" (22.2-25.4mm)	85.8	43.5	444
UK.SDGT-1_1_1/8	5	1"-1 1/8" (25.4-28.6mm)	88.1	46.7	505
UK.SDGT-1_1/8_1_3/8	5	1 1/8"-1 3/8" (28.6-34.9mm)	101.5	51.1	645

Refnets compatible with DGT



Standard Refnet (for reference only)	DGT Compatible Refnet Code
KHRQ22M20TA	BHRG26A33T
KHRQ22M20T	
KHRQ22M29T9	
KHRQ22M64T	BHRG26A72T
KHRQ22M75T	BHRG26A73T
KHRQ23M20T	BHRG25A33T
KHRQ23M29T9	
KHRQ23M64T	BHRG25A72T
KHRQ23M75T	BHRG25A73T

Accessories

	New Measuring Tool
	SDGT_GAUGE

		VRV 5 heat recovery		VRV S-series
		REYA8-20 REMA5	2 module systems	RXYSA-AV1/AY1
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system		2 modules: BHFQ23P907A	
	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.			
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)	5/8-12: EKBPH012T 14-20: EKBPH020T		EKBPH250D
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 mouting plate is required. See Options & Accessories of indoor units		
	KRC19-26 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 KRC19-26)			Standard on unit
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
Others	**KJB111A** Installation box for remote cool/heat selector KRC19-26			•
	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			
	EKLN140A Sound enclosure			•

Refnets & branch selector boxes

		Refnet Joints				Refnet Headers			VRV 5 Heat Recovery Branch Selector (BSSV) boxes R-32
		Capacity index	Capacity index	Capacity index	Capacity index	Capacity index	Capacity index	Capacity index	Multi port
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640	< 290	290 ≤ x < 640	> 640	BS-A14AV1B
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	For all R-410A VRV: KHRQ22M20T For all R-410A+R-32 VRV: KHRQ22M20TA	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHRQ22M29H	KHRQ22M64H	KHRQ22M75H	
	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	KHRQ23M29H	KHRQ23M64H	KHRQ23M75H	
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	Closed pipe kit								
	Joint kit								EKBSJK
	Quiet kit								
	Duct connection: To connect extraction of BSSV boxes in serial								EKBSDCK
	Drain pump kit								K-KDU303KVE

(1) For metric size connections, contact your local sales responsible

			Ceiling mounted cassette units	
			Round flow (800x800)	4-way (600x600)
			FXFA-A	FXZA-A
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: BYFQ60C2W1W (white panel) BYFQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel) R-32 model: BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)
	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)
Individual control systems	Infrared remote control (incl. receiver)		BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)
	BRP069C51 - Onecta app		●	●
	Madoka **BRC1H52W** (White) / **BRC1H52S** (Silver) / **BRC1H52K** (Black) User-friendly wired remote controller with premium design		● (mandatory)	● (mandatory)
	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 controller		●	●
	DCS301B51 (12) (13) - Unified ON/OFF controller		●	●
Building Management System & Standard protocol interfaces – for individual control	**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		●	●
	KLIC-DI - KNX Interface		●	●
Building Management System & Standard protocol interfaces – for central control	**DCM601B51** - intelligent Touch Manager		●	●
	EKMBDXB - Modbus interface		●	●
	DCM010A51 - Daikin PMS interface		●	●
	DMS502A51 - BACnet Interface		●	●
	DMS504B51 - LonWorks Interface		●	●
Filters	Auto cleaning filter		see decoration panel	
	UV Streamer kit (purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy indoor environment)	UV Streamer kit	BAEF125AWB (22)	
		Replacement filter	BAFP55A160	
	Replacement high efficiency filter		BAF552AA160 ePM10 60% (7) (BAF552AA160-5: box of 5 filters) (BAF552AA160-10: box of 10 filter)	
	Replacement long life filter, non-woven type		KAF5511D160	KAF441C60
	Pre-filter			
	Filter chamber			
Wiring and sensors	**KRCS** - External wired temperature sensor		KRCS01-5B	KRCS01-6B
	K.RSS - External wireless temperature sensor		SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)		KRP1BA58 (2)(7)	ERP02A50 (2)
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)		EKRP1C12 (2)(7)	EKRP1C14 (2)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω (for dedicated indoor)		KRP4A53 (2)(7)	KRP4A53 (2)
	Adapter for external central monitoring/control (controls 1 entire system)			KRP2A52
	Adapter for keycard and/or window contact connection (2)(11)		BRP7A53	BRP7A53 (2)
	Adapter for multi-tenant applications (24VAC PCB power supply interface)		DTA114A61	DTA114A61
	External control adapter for outdoor unit (installation on indoor unit)			
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)		KRP1H98A (7) KRP1BC101	KRP1BC101
	Wiring kit for Remote ON/OFF or Forced OFF		Standard	Standard
	Relay PCB for output signal of refrigerant sensor		ERP01A51 (2)	ERP01A50 (2)
Others	Drain pump kit		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			
	L-type piping kit			
	Insulation kit for high humidity			

(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
(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

Concealed ceiling units (duct units)			Ceiling suspended units		Wall mounted units
Slim	Medium ESP	High ESP	1-way blow	4-way blow	
FXDA-A	FXSA-A	FXMA-A	FXHA-A	FXUA-A	FXAA-A
				KDBHP49B140 + KDBTP49B140	
				BRE49B2F	
BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA630
●	●	●	●	●	●
● (mandatory)	● (mandatory)	● (mandatory)	● (mandatory)	● (mandatory)	●(mandatory)
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●		●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102					
		BAFM503A250 (65%) (21) BAFH504A250 (90%) (21)			
		200~250: BAFL502A250 (21)	32: KAF501B56 50~63: KAF501B80 71~100: KAF501B160	KAFP551K160	
		BAFL501A250 (21)			
		BDD500B250			
KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B
SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	●	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
			KRP1BA58		
ERP02A50 (2)	EKRP1C14 (2)	EKRP1C14 (2)		EKRP1C14 (2)	ERP02A50 (2)
KRP4A54-9 (2)	KRP4A52(2)	50~125: KRP4A52 200~250: KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)
KRP2A53 (2)	KRP2A51(2)	KRP2A51	KRP2A62		KRP2A61(2)
BRP7A54	BRP7A51	BRP7A51	BRP7A52 (2)	BRP7A53	BRP7A51 (2)
DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61
DTA104A53	DTA104A61 (2)	DTA104A61 (2)	DTA104A61		DTA104A51(2) / DTA104A61(2)
KRP1BC101	KRP1BC101	KRP1BC101	KRP1D93A/KRP4B93	KRP1B97	KRP4A93
	Standard	Standard	standard	standard	Standard
ERP01A51 (2)	ERP01A50 (2)	ERP01A50	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)
Standard	Standard	200~250: BDU510B250VM	32-50-63: KDU50R63 100: KDU50R160		K-KDU572KVE
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140 200~250: -			
			32: KHFP5M35 50~63: KHFP5N63 71~100: KHFP5N160		
KDT25N32 / KDT25N50 / KDT25N63					

controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box
(17) Only one installation box can be installed per indoor unit
(18) VRV R-32 indoor units cannot be connected to this controller
(19) The BYFQ60C4* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary
(21) Filter chamber needed
(22) Only possible in combination with BYCQ140E and BYCQ140EW

		VRV IV+ heat recovery	
		REYQ8-20 REMQ5	2/3 module systems
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system		2 modules: BHFQ23P907A 3 modules: 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.		
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)	5/8-12: EKBPH012T7A 14-20: EKBPH020T7A	
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.		
	KRC19-26 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 KRC19-26)		
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)		
Others	**KJB111A** Installation box for remote cool/heat selector KRC19-26		
	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		
	EKLN140A Sound enclosure		

		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.			
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)			
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		
	KRC19-26 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 KRC19-26)		EBRP2B	
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
Others	**KJB111A** Installation box for remote cool/heat selector KRC19-26		•	•
	EKCHSC Cool/heat selector cable (Required to connect KRC19-26)			•
	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+ heat pump		VRV IV C+series	
RYYQ8-20 RYMQ8-20 RXYQ8-20	**2/3 module systems**	**RXYLQ RXMLQ**	**2/3 module systems**
	2 modules: BHFQ22P1007 3 modules: BHFQ22P1517		2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
8-12: EKBPH012T7A 14-20: EKBPH020T7A			
DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units			
•	1 kit per system	•	1 kit per system
BRP2A81	1 kit per system	BRP2A81	1 kit per system
• (14-20)	1 kit per system	•	1 kit per system
•	1 kit per system	•	1 kit per system
•		•	
• (14-20)			
•		•	

	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	RXYQQ8-20	2/3-module systems
Kits	**Multi-module connection kit (obligatory)** Connects multiple modules into a single refrigerant system			2 modules: BHFQ22P1007 3 modules: 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		
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)		8-12: EKBPH012T7A 14-20: EKBPH020T7A	
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units	
	KRC19-26 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
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26 to VRV IV outdoor)		•	1 kit per system
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)		• (8-12)	1 kit per system
Others	**KJB111A** Installation box for remote cool/heat selector KRC19-26	•	•	1 kit per system
	EKPCCAB4 VRV configurator		•	
	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.		• (8-12)	
	DTA109A51 DIII-net expander adapter			

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFQ1 and EKHBFQ2.
The kits contain insulation material that complies with EN13501-1:B-S3,dO and BS476-7 (class 1)

Refnets & branch selector boxes

		Refnet Joints			
		Capacity index	Capacity index	Capacity index	Capacity index
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	For all R-410A VRV: KHRQ22M20T For all R-410A+R-32 VRV: KHRQ22M20TA	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T
	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	Closed pipe kit				
	Joint kit				
	Quiet kit				
	Duct connection: To connect extraction of BSSV boxes in serial				
	Drain pump kit				

(1) For metric size connections, contact your local sales responsible

VRV III-Q Heat Recovery Replacement VRV		VRV-W IV Water-cooled VRV		
			Heat Pump application	Heat Recovery application
RQEQ 140~212	2/3/4-module systems	RWEYQ8-14	2/3-module systems	2/3-module systems
	2/3 modules: BHFP26P36C 4 modules: BHFP26P84C		BHFQ22P1007 / BHFQ22P1517 (1)	BHFQ23P907 / BHFQ23P1357 (1)
DTA104A53/61/62 Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units				
		• (for H/P only)	1 kit per system	
		• (for H/P only)	1 kit per system	
•		• (for H/P only)	1 kit per system	
		•	•	•
		•	•	•

Refnet Headers			VRV IV Heat Recovery Branch Selector (BS) boxes R-410A	
Capacity index	Capacity index	Capacity index	1-port	Multi port
< 290	290 ≤ x < 640	> 640	BS1Q-A	BS-Q14AV1B
KHRQ22M29H	KHRQ22M64H	KHRQ22M75H		
KHRQ23M29H	KHRQ23M64H	KHRQ23M75H		
				KHFP26A100C
				KHRP26A250T
			EKBSVQLNP	4 port: KDDN26A4 6-8 port: KDDN26A8 10-12 port: KDDN26A12 16 port: KDDN26A16

Options & accessories -

VRV indoor & hot water R-410A LOOP BY DAIKIN

			Ceiling mounted cassette units			
			Round flow (800x800)	4-way (600x600)	2-way blow	Corner (1-way blow)
			FXFQ-B	FXZQ-A	FXCQ-A	FXKQ-MA
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: BYFQ60C2W1W (white panel) BYFQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel) R-32 model: BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)	20~40: BYBCQ40H 50~63: BYBCQ63H 80~125: BYBCQ125H	25~40: BYK45F 63: BYK71F
	Panel spacer for reducing required installation height			KDBQ44B60 (Standard panel)		25~40: KPBJ52F56 63: KPBJ52F80
	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)		
Individual control systems	Infrared remote control including receiver		BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	BRC7C52	BRC4C61
	BRP069C51 - Onecta app					
	Madoka **BRC1H52W** (White) / **BRC1H52S** (Silver) / **BRC1H52K** (Black) User-friendly wired remote controller with premium design		●	●	●	●
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light		● (18)	● (18)	●	●
	BRC1D52 (4) - Standard wired remote control with weekly timer		● (15)(18)	● (18)	●	●
Centralised control systems	**DCC601A51** - Intelligent Tablet Controller		●	●	●	●
	DCS601C51 (12) - intelligent Touch Controller		●	●	●	●
	DCS302C51 (12) - Central remote control		●	●	●	●
	DCS301B51 (12) (13) - Unified ON/OFF control		●	●	●	●
Building Management System & Standard protocol interfaces – for individual control	**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		●	●	●	●
	KLIC-DI - KNX Interface		●	●	●	●
Building Management System & Standard protocol interfaces – for central control	**DCM601B51** - intelligent Touch Manager		●	●	●	●
	EKMBDXB - Modbus interface		●	●	●	●
	DCM010A51 - Daikin PMS interface		●	●	●	●
	DMS502A51 - BACnet Interface		●	●	●	●
	DMS504B51 - LonWorks Interface		●	●	●	●
Filters	Auto cleaning filter		see decoration panel			
	UV Streamer kit (purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy indoor environment)	UV Streamer kit	BAEF125AWB (22)			
		Replacement filter	BAFP55A160			
	Replacement high efficiency filter		BAF552AA160 ePM10 60% (7) (BAF552AA160-5: box of 5 filters) (BAF552AA160-10: box of 10 filter)			
	Replacement long life filter, non-woven type		KAF5511D160	KAF441C60	20~40: KAF531C50 50~63: KAF531C80 80~125: KAF531C160	
	Pre-filter					
	Filter chamber					
Wiring and sensors	**KRCS** - External wired temperature sensor		KRCS01-5B	KRCS01-4	KRCS01-4	KRCS01-1
	K.RSS - External wireless temperature sensor		K.RSS	K.RSS	●	●
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)		KRP1BA58 (2)(7)	KRP1B57 (2)		
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)		EKRP1C12 (2)(7)	EKRP1B2 (2)	EKRP1B2 (2)	KRP1B61
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω (for dedicated indoor)		KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51 (2)	KRP4A51
	Adapter for external central monitoring/control (controls 1 entire system)			KRP2A52	KRP2A51 (2)	KRP2A61
	Adapter for keycard and/or window contact connection (2)(11)		BRP7A53	BRP7A53 (2)	BRP7A51	BRP7A51
	Adapter for multi-tenant applications (24VAC PCB power supply interface)		DTA114A61	DTA114A61		
	External control adapter for outdoor unit (installation on indoor unit)				DTA104A61 (2)	DTA104A61
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)		KRP1H98A (7) KRP1BC101	KRP1BC101	KRP1C96 (16) (17)	
	Wiring kit for Remote ON/OFF or Forced OFF		Standard	Standard	Standard	Standard
	Relay PCB for output signal of refrigerant sensor					
Others	Drain pump kit		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					
	L-type piping kit					
	Filter chamber for bottom suction				20~40: KDDFP53B50 50~63: KDDFP53B80 80~125: KDDFP53B160	
	Insulation kit for high humidity					

(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
(11) Only possible in combination with BRC1H* / BRC1E*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box
(17) Only one installation box can be installed per indoor unit
(18) VRV R-32 indoor units cannot be connected to this controller

Concealed ceiling units (duct units)				Ceiling suspended units		Wall mounted units	Floor standing units	
Slim	Medium ESP	High ESP		1-way blow	4-way blow		Concealed	Free-standing
FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-A	FXHQ-A	FXUQ-A	FXAQ-A	FXNQ-A	FXLQ-P
								20~25: EKRDP25A5 32~40: EKRDP40A5 50~63: EKRDP63A5
					KDBHP49B140 + KDBTP49B140			
BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA629 / BRC7EA628	BRC4C65	BRC4C65
●	●	●	●	●	●	●	●	●
● (18)	● (18)	●	●	●	●	●	●	●
● (18)	● (18)	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●		●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102								
			BAFM503A250 (65%) (21) BAFH504A250 (90%) (21)					
			BAFL502A250 (21)	32: KAF501B56 63: KAF501B80 71~100: KAF501B160	KAF5511D160			20~25: KAF361L28 32~40: KAF361L45 50~63: KAF361L71
			BAFL501A250 (21)					
			BDD500B250					
KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-6B	KRCS01-4	KRCS01-4	KRCS01-1	KRSC01-4	KRCS01-1
K.RSS	K.RSS	●	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	●	●	K.RSS + EKEWTSC	●	●
		KRP1C64 (2)	KRP1C65	KRP1B54				
KRP1B56	EKRP1B2 (2)	EKRP1B2 (2)	EKRP1C14 (2)			KRP1B56	KRP1B56	KRP1B61
KRP4A54-9 (2)	KRP4A52 (2)	KRP4A51 (2)	KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)	KRP4A54-9	KRP4A51
KRP2A53 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51	KRP2A62 (2)		KRP2A51 (2)/ KRP2A61(2)	KRP2A53	KRP2A51
BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A52	BRP7A53	BRP7A51 (2)	BRP7A54	BRP7A51
DTA114A61	DTA114A61 (2)	DTA114A61 (2)	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61	EKMTAC
DTA104A53	DTA104A61	DTA104A61 (2)	DTA104A61	DTA104A62-9		DTA104A51 / DTA104A61	DTA104A53	DTA104A61
KRP1BC101	KRP1BC101	KRP4A96		KRP1D93A (19)	KRP1B97	KRP4AA93 (16)(17)	KRP1BC101	
	Standard	Standard	Standard	EKRORO4	EKRORO5	Standard	Standard	Standard
Standard	Standard	Standard	BDU510B250VM	32: KDU50R63 63~100: KDU50R160		K-KDU572KVE		
●	●							
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140						
				35: KHFP5M35 63: KHFP5N63 71~100: KHFP5N160				
KDT25N32 / KDT25N50 / KDT25N63								

(19) The BYFQ60C4* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary
(21) Filter chamber needed
(22) Only possible in combination with BYCQ140E and BYCQ140EW
(23) Requires demand PCB
(24) Can only be used in combination with wireless room thermostat
(25) If tank is NOT mounted on top of the HXHD unit, then option EKFMAHTB is needed to install tank as stand alone

	HXY080-125A8	HXHD125-200A8
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRP1HBAA	EKRP1HBAA
Demand PCB - Required to connect room thermostat	EKRP1AHTA	EKRP1AHTA
Remote user interface (remocon) - Same controller as supplied with cascade unit can be mounted parallel or on other location. If 2 controllers are installed, the installer needs to select 1 master & 1 slave	EKRUAHTB	EKRUAHTB
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat	EKRTWA (23)	EKRTWA (23)
Wireless room thermostat	EKRTR1 (23)	EKRTR1 (23)
Remote sensor for room thermostat	EKRTETS (24)	EKRTETS (23)
Stainless domestic hot water tank - 200l	-	EKHTS200AC (24)
Stainless domestic hot water tank - 260l	-	EKHTS260AC (24)
PP domestic hot water tank - 300l	-	EKHWP300B
PP domestic hot water tank - 500l	-	EKHWP500B
Solar collector	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station	-	EKSRPS

Options - Ventilation

		Heat Recovery Ventilation - Modular T (Smart)					Heat Recovery Ventilation - Modular L (Smart)			
		ATB03RAS/LAS	ATB04RAS/LAS	SB.ATB05RAS/LAS	SB.ATB06RAS/LAS	SB.ATB07RAS/LAS	ALB02LBS/RBS	ALB03LBS/RBS	ALB04,05LBS/RBS	ALB06,07LBS/RBS
Individual control systems	**BRC301B61** VAM wired remote control	•	•	•	•	•	•	•	•	•
	Madoka **BRC1H52W** (White) / **BRC1H52S** (Silver) / **BRC1H52K** (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	•	•	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	**DCM601A51** intelligent Touch Manager	•	•	•	•	•	•	•	•	•
	EKMBDXB Modbus interface	•	•	•	•	•	•	•	•	•
	DMS502A51 BACnet Interface	•	•	•	•	•	•	•	•	•
	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•	•	•
Filters	Coarse 55% (G4)	ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A	ALF02G4A	ALF03G4A	ALF05G4A	ALF07G4A
	ePM10 75% (M5)	ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A	ALF02M5A	ALF03M5A	ALF05M5A	ALF07M5A
	ePM10 70% (M6)									
	ePM1 50% (F7)	ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A	ALF02F7A	ALF03F7A	ALF05F7A	ALF07F7A
	ePM1 60% (F7)									
	ePM_1 70% (F8)									
	ePM1 80% (F9)	ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A	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	BRYMA200	BRYMA200	BRYMA200	BRYMA200	BRYMA200
Electrical heater for pre treatment of fresh air		ATD03HEFBU	ATD04HEFBU	ATD05HEFBU	ATD06HEFBU	ATD07HEFBU	ALD02HEFB	ALD03HEFB	ALD05HEFB	ALD07HEFB
DX coil for post treatment of fresh air										
Silencer (900mm depth)		ATA0360A	ATA0460A	ATA0560A	ATA0660A	ATA0760A	ALS0290A	ALS0390A	ALS0590A	ALS0790A
Electrical accessories	Wiring adapter for external monitoring/ control (controls 1 entire system)									
	Adapter PCB for humidifier									
	Adapter PCB for third party heater									
	External wired temperature sensor									
	Adapter PCB Mounting plate									
	Installation box for adaptor PCB									

Notes

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

(2) Installation box 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) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)

(6) Available only with optional plenum

Energy recovery ventilation - VAM									Energy recovery ventilation VKM			Air handling unit applications		
VAM 150FC9	VAM 250FC9	VAM 350J8	VAM 500J8	VAM 650J8	VAM 800J8	VAM 1000J8	VAM 1500J8	VAM 2000J8	VKM 50GBM	VKM 80GBM	VKM 100GBM	EKEQFCBA (1)	EKEQDCB (1)	EKEQMCBA (1)
•	•	•	•	•	•	•	•	•						
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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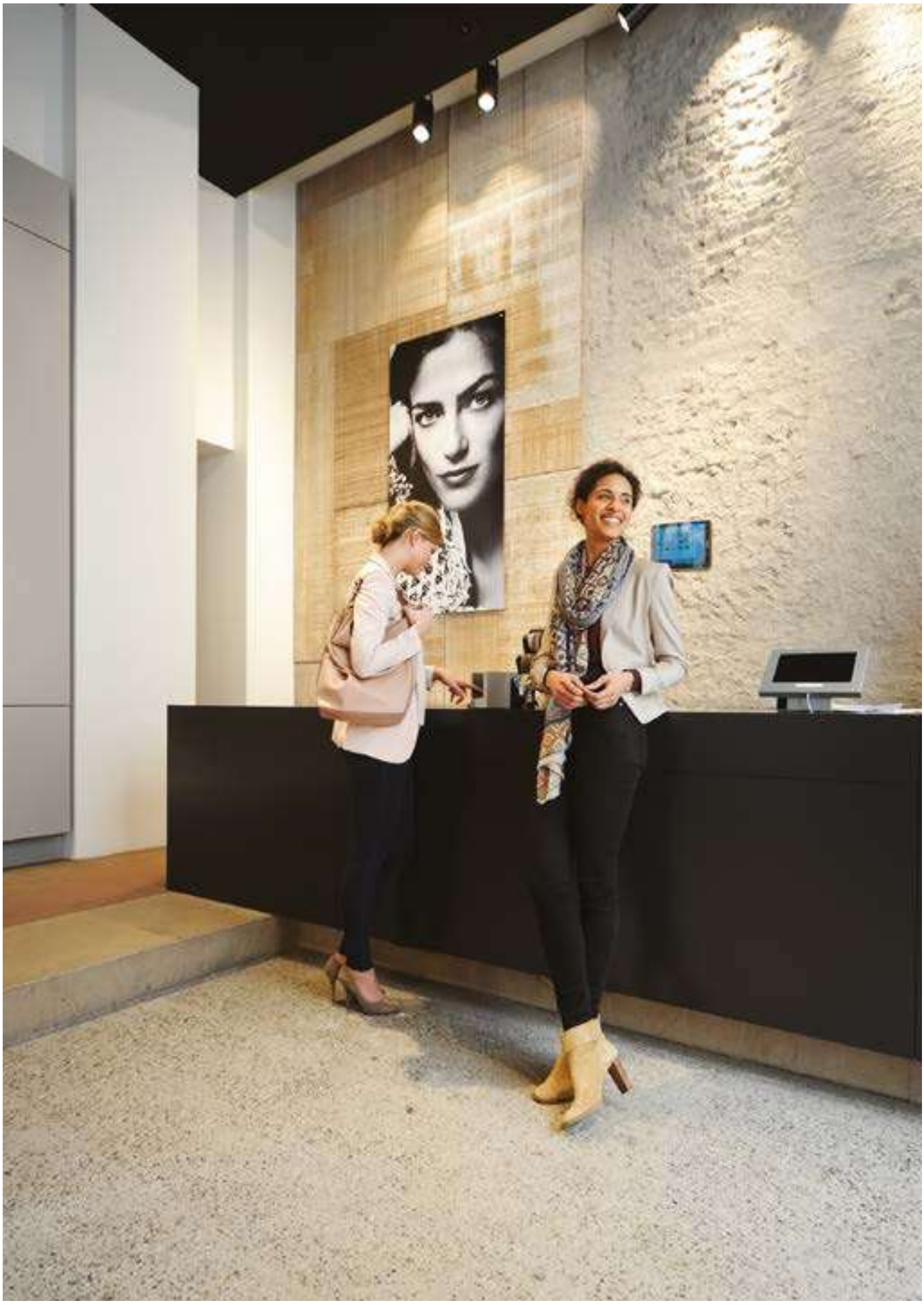
•	•	•	•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•	•	•	•			
		EKAFVJ50F6	EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6 x2						
		EKAFVJ50F7	EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7 x2	EKAFVJ100F7 x2						
		EKAFVJ50F8	EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2						
									KAF242H80M	KAF242H100M	KAF242H100M			
									KAF241H80M	KAF241H100M	KAF241H100M			
							EKPLEN200 (5)	EKPLEN200 (5)						
		BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200	BRYMA65	BRYMA100	BRYMA100			
GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030	GSIEKA35530 (6)		GSIEKA20024 (8)	GSIEKA20024 (8)	GSIEKA20024 (8)			
			EKVDX32A	EKVDX50A	EKVDX50A	EKVDX80A	EKVDX100A	EKVDX100A						
KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
									BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
BRP4A50A	BRP4A50A	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	
EKMP25VAM	EKMP25VAM			EKMP65VAM			EKMPVAM							
KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101						



Intelligent Touch Manager - DCM601B51

		Intelligent Touch Manager
DIII Plus Adaptor - Allows connection of additional 64 indoor units/groups. Only one adaptor can be connected (for more units, use DIII Plus Adaptor Slots)	DGE601A52	●
DIII Plus Adaptor - Allows connection of additional 64 indoor units/groups. Up to 6 Adaptor Slots can be added to a DIII Plus Adaptor	DGE601A53	
iTM plus adapter – Allows connection of an additional 64 indoor units/groups. Up to 7 adapters can be connected	DCM601A52	●
iTM PPD software – Allows distribution of used kWh by indoor units connected to the iTM	DCM002A51	●
iTM HTTP interface - Allows communication to any third party controller via http interface	DCM007A51	●
iTM Energy navigator – Energy management option	DCM008A51	●
iTM BACnet Client option – Enables integration of third party devices to the iTM via the BACnet/IP protocol. (This is not a gateway and cannot replace DMS502A51)	DCM009A51	●
Property Management System (PMS) interface option - Enables to connect to third party PMS systems	DCM010A51	● Oracle Opera PMS
Monitoring package		
Remote support and diagnostics package		
Advise and optimisation package		

WAGO interface options for intelligent Touch Manager

Required or optional WAGO base modules

Module type	Model code	Specifications	
24 V DC power supply	787-712	100 to 240 V AC —> 24 V DC, 2.5 A	Required
Communications unit (Bus coupler)	WGDCMCPLR2	RS-485, Max:115.2kbps, not programmable	Required
Connector (1)	750-960		Required
Terminator module	750-600		Required
Power supply module	750-613	IN: 24 V DC, OUT: 5 V DC	Optional

Supported WAGO I/0 modules

I/0 module type	Model code	Specifications	N° of contacts
Di	750-400	No-voltage contact input Contact rating: 24 V DC / 4.5 mA"	2
	750-432		4
	750-430	No-voltage contact input Contact rating: 24 V DC / 2.8 mA	8
Do	750-513/000-001	No-voltage contact output Contact rating: 230 V AC / 30 V DC, 2 A	2
	750-504	No-voltage contact output Contact rating: 24 V DC / 0.5 A	4
Ai	750-454	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.SB.5000072) and AC/DC converter (999175A) is needed.

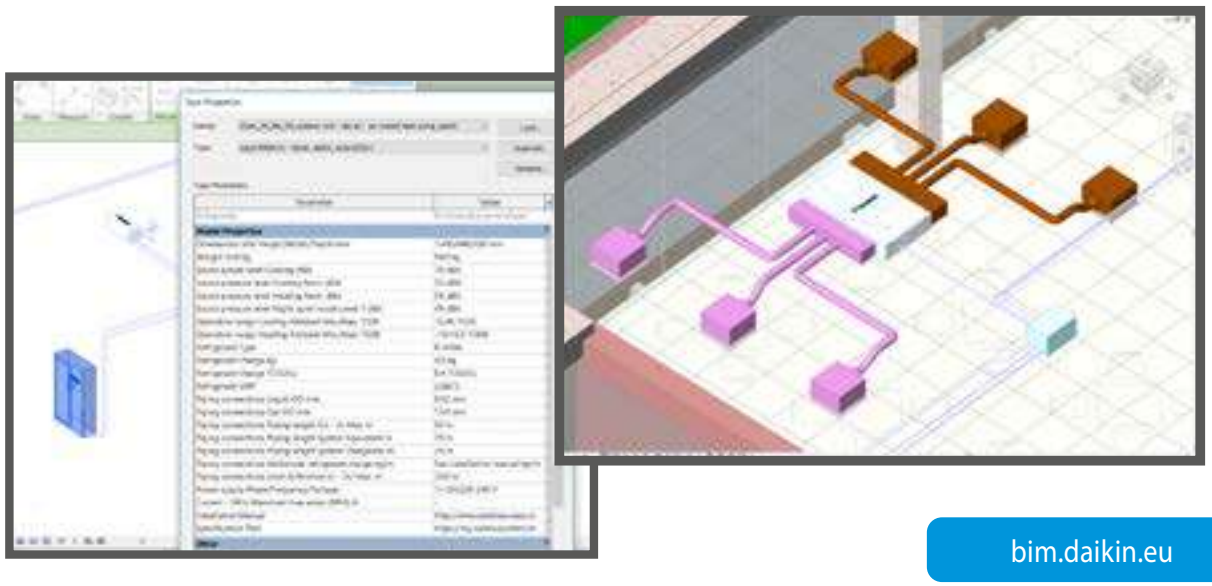
We're here to help you!
Online and offline

Online and offline VRV selection software

Business portal via mobile or desktop

my.daikin.eu

Full BIM object library available



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Tools
& platforms

Supporting tools, software and apps 224
30 years of history 228

Supporting
tools, software and apps

www.daikineurope.com/
support-and-manuals/
software-downloads

Web-based Xpress selection software

Making selection easy - anytime, anywhere

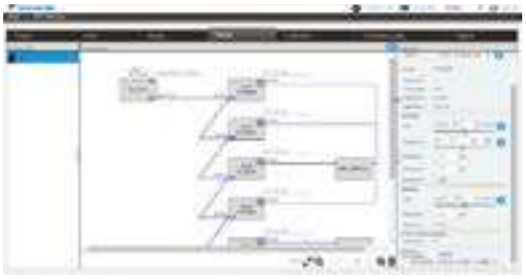
› Web and cloud-based, access to your projects from anywhere, anyplace…
› Platform (Windows, Mac) and hardware (laptop, desktop, tablet) independent
› Re-engineered GUI for maximum easy of use
› No need for local installation
› No tool updates required (latest version always available)
› Possibility to copy / share projects

Easy selection, anytime, anywhere

Main functions

Easy editing of piping

Intuitive interface



Clear wiring overview, easy to make control groups

Clear overview of control groups and central controls

Integrated features

2D floorplan

How does it work?

1. Import 2D floorplan
2. Define reference point & scale
3. Position units
4. Draw pipes

--> Pipe lengths and heights are automatically determined!

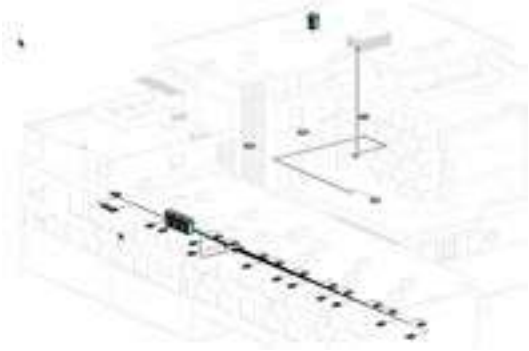
› Accurate pipe design
› Work faster
› Easy compliance check

REVIT import

How does it work?

1. Design your building/rooms in revit
2. Define loads (optional)
3. Place Daikin BIM objects & Draw pipes
4. Export to Xpress
5. Xpress calculates

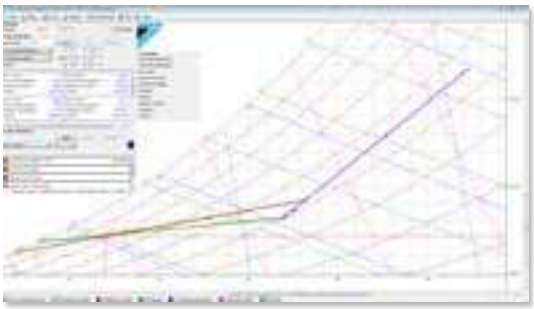
› Model selection
› Pipe diameters
› Validates selection



VRV Xpress integrates seamlessly with our ventilation selection softwares

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



Web-based 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

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

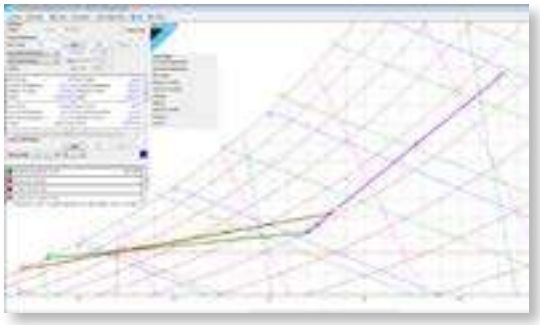
Energy simulation and design aid tools

Seasonal simulator

› The Seasonal Simulator is an innovative software tool that calculates and compares potential seasonal efficiency ratings.
› This user-friendly tool compares various Daikin systems, annual power consumption, CO_2 emissions, and much more, to present an accurate ROI calculation in a matter of minutes.

Psychrometrics diagram NEW

› The Psychrometrics Diagram Viewer demonstrates the changing properties of moist air.
› With this tool, users can choose two points with specific conditions, plot them on the diagram and select actions to change the conditions, i.e. heat, cool and mix air.



Software service tools

Error code app

Quickly find out the meaning of fault codes, for each product family and the potential cause

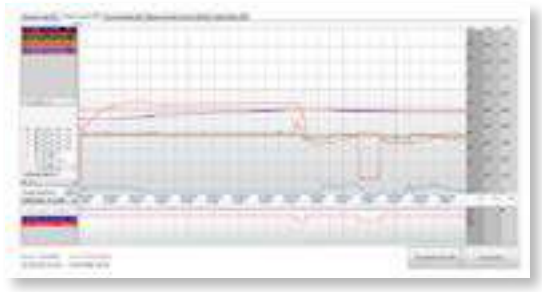
D-Checker

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

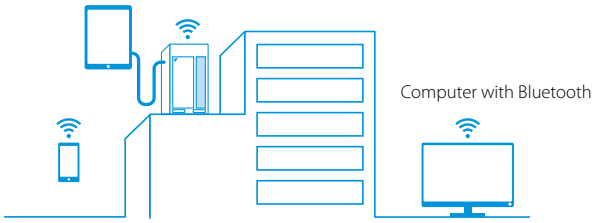
Bluetooth adaptor NEW

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)



Diagnosis of the Bluetooth system possible:



VRV Service-Checker

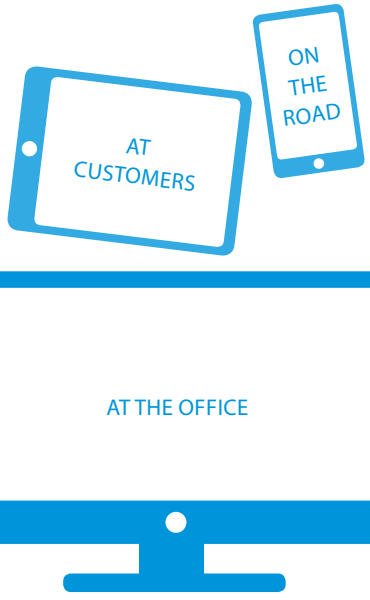
› Connected via F1/F2 bus to check multiple systems at the same time
› Connection of external pressure sensors possible

Online support

Business portal

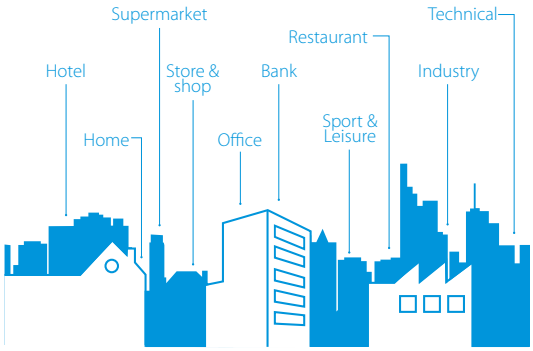
› Experience our new extranet that thinks with you at my.daikin.eu
› Find information in seconds via a powerful search
› Customise the options so you see only info relevant for you
› Access via mobile device or desktop

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

R-407C

1987
Introduce the original VRV air conditioning system to Europe, invented by Daikin in 1982
› Up to 6 indoor units connected to 1 outdoor unit

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

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

2015

Launch of VRV IV i-series

› The invisible VRV
› Unique product concept

2019

Launch of VRV IV+ series

› New compressor for increased seasonal efficiency
› Available in heat recovery, heat pump, optimised for heating and water-cooled versions

BLUEVOLUTION

2020

VRV 5 S-series

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

2010 2011 2012 2015 2019 2020 2022

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

Variable Refrigerant Temperature

2019

Launch of L∞P by Daikin

› Re-use of existing refrigerant
› Creating a circular economy of refrigerants

LOOP BY DAIKIN

2022

VRV 5 Heat Recovery

› Our sustainability hero
› Completely redesigned for R-32 refrigerant

BLUEVOLUTION

Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: www.eurovent-certification.com

ECPEN23-200UK 06/23