DAIKIN

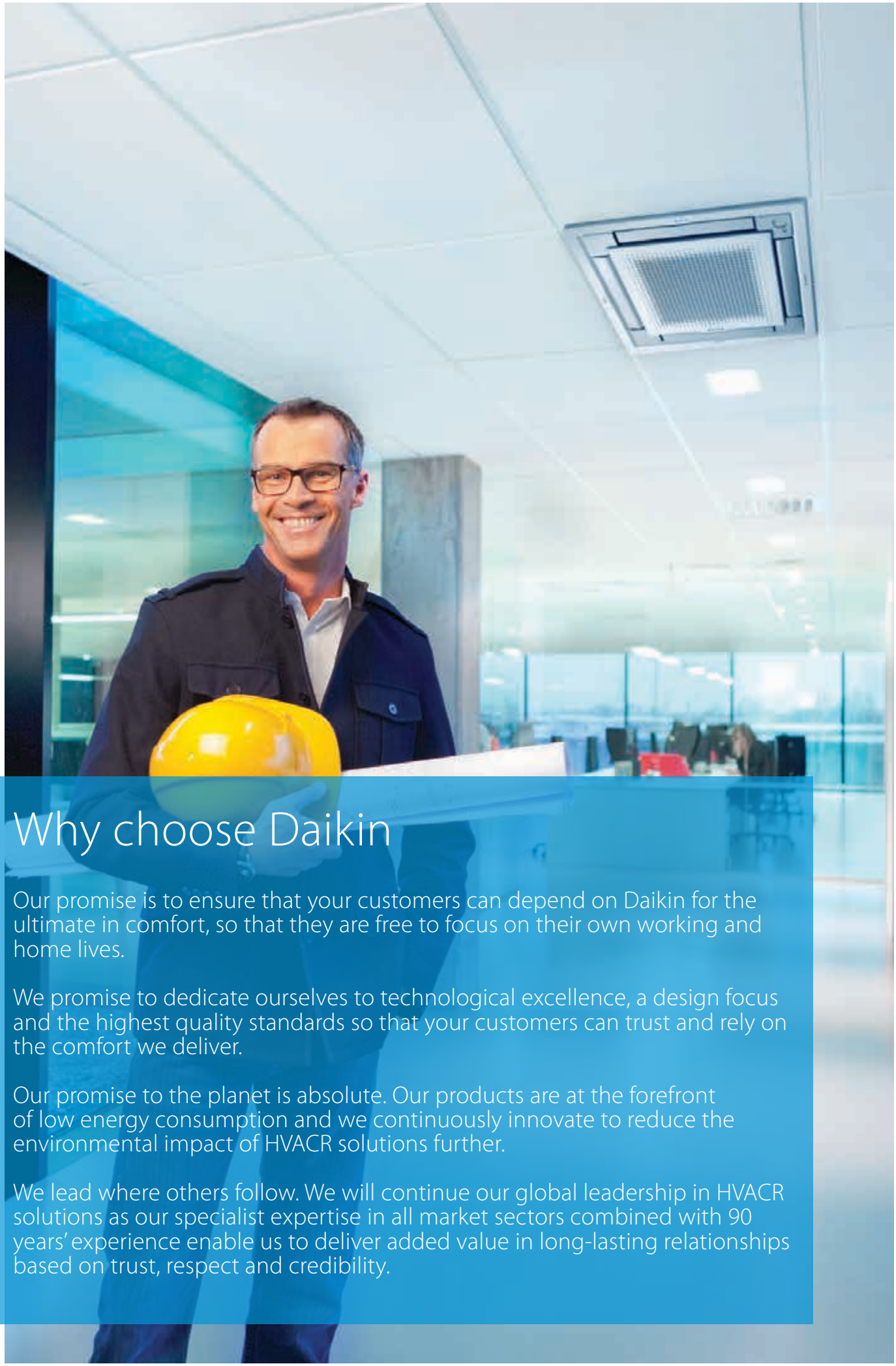
VRV

Catalogue 2017-2018

VRV

NEW webbased Xpress selection software

Minimum running costs, maximum flexibility.
Fast installation, top reliability, perfect comfort.



Why choose Daikin

Our promise is to ensure that your customers can depend on Daikin for the ultimate in comfort, so that they are free to focus on their own working and home lives.

We promise to dedicate ourselves to technological excellence, a design focus and the highest quality standards so that your customers can trust and rely on the comfort we deliver.

Our promise to the planet is absolute. Our products are at the forefront of low energy consumption and we continuously innovate to reduce the environmental impact of HVACR solutions further.

We lead where others follow. We will continue our global leadership in HVACR solutions as our specialist expertise in all market sectors combined with 90 years' experience enable us to deliver added value in long-lasting relationships based on trust, respect and credibility.

Table of contents

VRV IV sets the standard … again

9 reasons why VRV is unique in the market

1 High energy efficiency

Variable Refrigerant Temperature leading to the highest seasonal efficiency
- Customize your VRV for best seasonal efficiency & comfort
- Up to 28% higher seasonal efficiency (ESEER)
- First *weather dependent* VRV

NEW
- No more cold draught by supply of high outblow temperatures

› Round flow cassette and concealed ceiling units with auto cleaning filter
› Absolute credibility of data with Eurovent certification of air-cooled outdoor units
› The best partner for your green project
- A team of AP's across Europe who are there to help you
- Maximise your BREEAM points with Daikin
- Experience with many green and sustainable projects across Europe

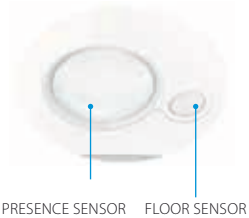
Variable Refrigerant Temperature

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

BREEAM®

2 Best comfort

Variable Refrigerant Temperature preventing cold draughts
› True continuous heating, during defrost
› 15 class units for small, well insulated rooms (cassette, wall, concealed ceiling models)
› Low sound indoor and outdoor units
› Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution



3 Top reliability

› True technical cooling down to -20°C
› Gas-cooled PCB
› Most extensive testing before new units leave the factory
› Widest support network and after sales service
› All spare parts available in Europe
› Preventive maintenance via i-Net

Did you know

BES 6001 Responsible Sourcing

› Daikin is the first HVAC manufacturer to achieve BES6001 certificates for our products produced in the Belgian and Czech factory, including our Daikin Altherma, Split, Sky Air and VRV ranges
› BES6001 certificates are awarded to companies who use socially and environmentally responsible suppliers
› As the standard is recognised by BREEAM, specifiers and contractors can potentially gain additional BREEAM credits by choosing a certified product

4 Market leading controls

› Intelligent Touch manager, cost-effective mini BMS integrating all Daikin products
› Easy integrating in third party BMS via BACnet, LonWorks, Modbus, KNX
› Dedicated control solutions for applications such as technical cooling, shops, hotels, ...
NEW › Daikin Cloud Service offers services such as online control, energy monitoring, comparison of multiple sites

5 Stylish design products

› Fully flat cassette, fully integrated in the ceiling
› Daikin Emura, unique iconic design

DAIKIN EMURA

6 Unique installation benefits

› 'Invisible' VRV IV i-series
› Automatic refrigerant charge and refrigerant containment check
› 4-way blow ceiling suspended cassette (FXUQ)
› Plug & play Daikin air handling unit
› Total solution incl. low and high temperature hydro box, Biddle air curtains, etc.
› VRV configurator software for the fastest commissioning, configuration and customisation
› Outdoor unit display for quick on-site settings
› Free combination of oudoor units to meet installation space or efficiency requirements
› Compact units saving on installation space

FXUQ

7 Inventor and market leader of VRV systems since 1982

› Over 90 years of expertise in heat pumps
› Designed for and produced in Europe

7-segment display

8 Unique outdoor unit range covering all applications and climate conditions in design

9 VRV IV technologies

Variable refrigerant temperature

The biggest leap since the inverter compressor
› 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)

Continous heating

Real continuous heating providing heating even during defrost
› Continuous indoor comfort ensured by the heat accumulating element or alternate defrost
› An innovative alternative to traditional heating systems

VRV configurator

Software for simplified commissioning, configuration and customisation
› Graphical interface
› Manage systems over multiple sites in exactly the same way
› Retrieve initial settings

Variable Refrigerant Temperature

VRV IV

Heat pump
Heat recovery
Replacement
Water cooled

In the spotlight

BIM: Building Information Modelling

What is BIM?

BIM is an intelligent model-based process that provides insight to help you plan, design, construct and manage buildings and infrastructure

Collaboration and clash control

BIM uses a 3D model to provide the right information, to the right people, at the right time. This process improves efficiency throughout the design and building phases and increases savings by discovering clashes during the design phase, rather than later on during the building phase.

Download the Daikin BIM objects here: http://bimobject.com/en/product/?freetext=daikin

Daikin and BIM – putting you ahead of competition

Daikin is among the first to supply a full library of BIM objects for it's VRV products.

- ☑ Installers get an edge over competition where customers demand for BIM to be used
- ☑ Consultants have direct access to the base data through the objects, to design the system and see how our solutions can fit your project
- ☑ Customers have easy access to latest relevant information needed to maintain and manage the installation.

Green building solutions BREEAM®

Todays challenges

- ☑ In the near future the majority of new building projects in Europe are expected to be green
- ☑ 93% percent of developers & investors consider green certification important

Visit the minisite http://www.daikineurope.com/minisite/sustainability/index.jsp

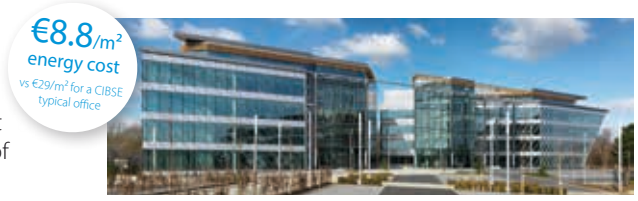
Daikin: the best partner for your green project

- ☑ We have a team of BREEAM accredited professionals (AP's) at your service that support you and your customer throughout the project
- ☑ Daikin offers solutions that maximise your BREEAM and LEED scores with heat recovery, Variable Refrigerant Temperature and i-Net.
- ☑ Daikin has successfully participated in many green and sustainable projects across Europe

World's first HVAC manufacturer to receive **BES certificate**

Case: Velocity, UK

- ☑ Energy performace certificate B
- ☑ VRV heat recovery ensures an energy cost of 9 euro/m³ compared to a typical cost of 29 euro/m³



BREEAM is a registered trademark of BRE (the Building Research Establishment Ltd. Community Trade Mark E5778551).

Innovative outdoor units

Variable Refrigerant Temperature

VRV IV i-series

VRV IV heat pumps for indoor installation

More details on page 62

You can install highly efficient, reliable Daikin air conditioning systems in the most demanding locations while remaining invisible from street level.

Invisible

- ☑ Only the grilles are visible
- ☑ Seamless integration into surrounding architecture
- ☑ Low operation sound

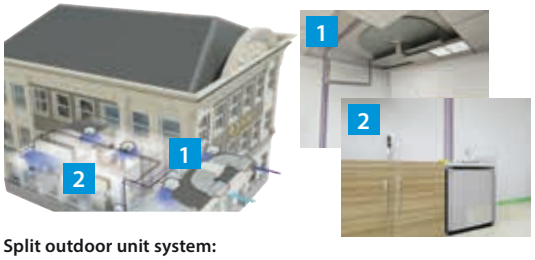
Intelligent

- ☑ Patented V-shape heat exchanger for the most compact unit ever
- ☑ Connectable to all VRV indoor units
- ☑ Total solution when combined with ventilation units, Biddle air curtains and controls

Intuitive

- ☑ Total flexibility as the outdoor unit is split up in 2 parts
- ☑ Easy and quick to transport and install
- ☑ Easy servicability, all components can be easily reached

NEW 8HP unit



unique patented concept

Split outdoor unit system:

1 heat exchanger unit installed in false ceiling

2 compressor unit installed in kitchen

VRV IV W+ series

Air-to-water heat pump

The new VRV IV W+ series bring a whole new range of features to increase your flexibility and make commissioning easier.

More flexibility

- ☑ Mixed connection of hydroboxes and VRV indoor units
- ☑ Connects to VRV or stylish indoor units such as Daikin Emura, Nexura, …
- ☑ Most compact casing in the market
- ☑ No heat dissipation allows installation in non-ventilated indoor spaces

Unique zero heat dissipation principle

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

Easier commissioning & servicing

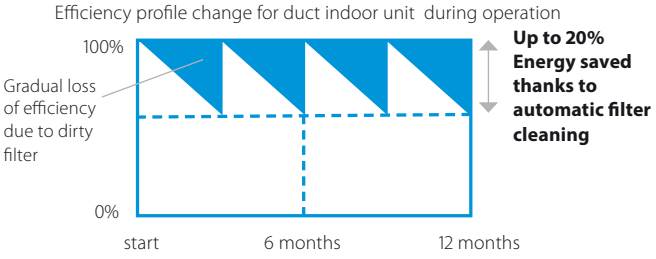
- ☑ 7 segment display
- ☑ 5 output signals allowing external control of
  - ON-OFF (e.g. compressor)
  - Operation mode (cooling / heating)
  - Limit of capacity
  - Error signal
- ☑ Rotating switchbox

Extension of the range: from 8 up to 42 HP

Unique
auto cleaning technology

Reduce running costs

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



Minimal time required for filter cleaning

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

Unique technology

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

Unique in the market

Improved indoor air quality

› Optimum airflow eliminates draft and insulates sound

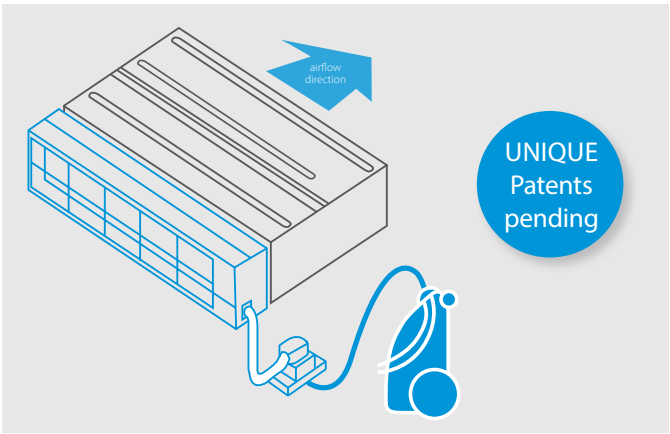
How does it work?

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

Concealed ceiling units

More details on page 112

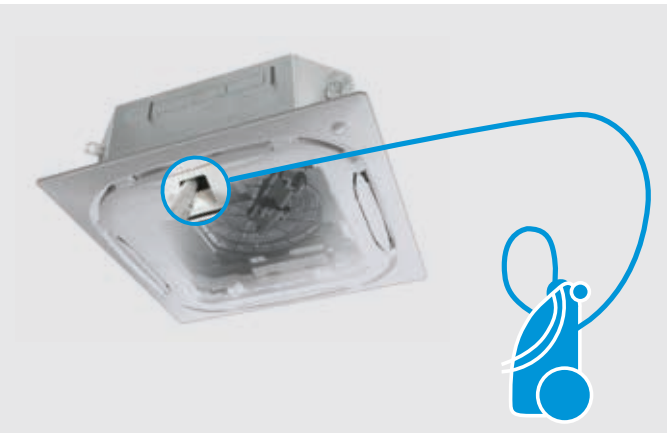
› Ideal for hotels and residential applications
› Cleaning team /owner can clean the filter



Round flow cassette

More details on page 102

› Ideal for retail
› Staff/owner can clean the filter
› No need to use a ladder to reach the unit



Combination table

	Split / Sky Air				VRV						
	FDXM-F3				FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

*Note: blue cells combination to be confirmed

	FXFQ-A	FCQG-F	FCQHG-F	FCAHG-F
BYCQ140DG	•	•	•	•
BYCQ140DGF (fine mesh)	•	•	•	•

The quick & quality way to upgrade R-22 and R-407C systems

Replacement VRV increases your profit

More details on page 79

- Less installation time compared to a full replacement allows you to tackle more projects making it more profitable
- Lower installation cost improves your competitive edge
- Replace non-Daikin systems
- Automatic charging and pipe cleaning ensures a quality replacement

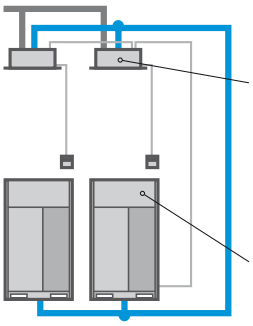
Compare installation steps

Conventional solution	VRV-Q
1 Recover refrigerant	1 Recover refrigerant
2 Remove units	2 Remove units
3 Remove refrigerant pipes	Re-use existing piping and wiring
4 Install new piping and wiring	3 Install new units
5 Install new units	4 Leak test
6 Leak test	5 Vacuum drying
7 Vacuum drying	6 Automatic refrigerant charging, cleaning and testing
8 Refrigerant charging	
9 Collect contamination	
10 Test operation	

Up to 45% shorter installation time

These benefits will convince your customer

No interruption of daily business



The Daikin low-cost upgrade solution

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

Replace outdoor units

Drastically improve your efficiency, comfort and reliability

Up to **48% less** consumption

Comparison of 10HP systems: Cooling mode Heating mode

Pre-sized fresh air solution

Select your air handling unit like any other VRV indoor unit!

More details on page 154

Easy selection
- 16 pre-selected combinations – to cover all fresh air needs in Europe
- The right outdoor unit and the necessary connection kits to the coil of the AHU are factory mounted and configured.
- Total solution – Daikin provides the complete solution

Fast quotation
- Select as any other unit in Xpress selection software and show the solution in the report

Easy ordering
- AHU and outdoor unit are automatically selected in VRV xpress

Easy installation
- Same pipe diameter from AHU to outdoor unit
- Install and connect like any other VRV indoor unit
- Direct integration in Intelligent Manager

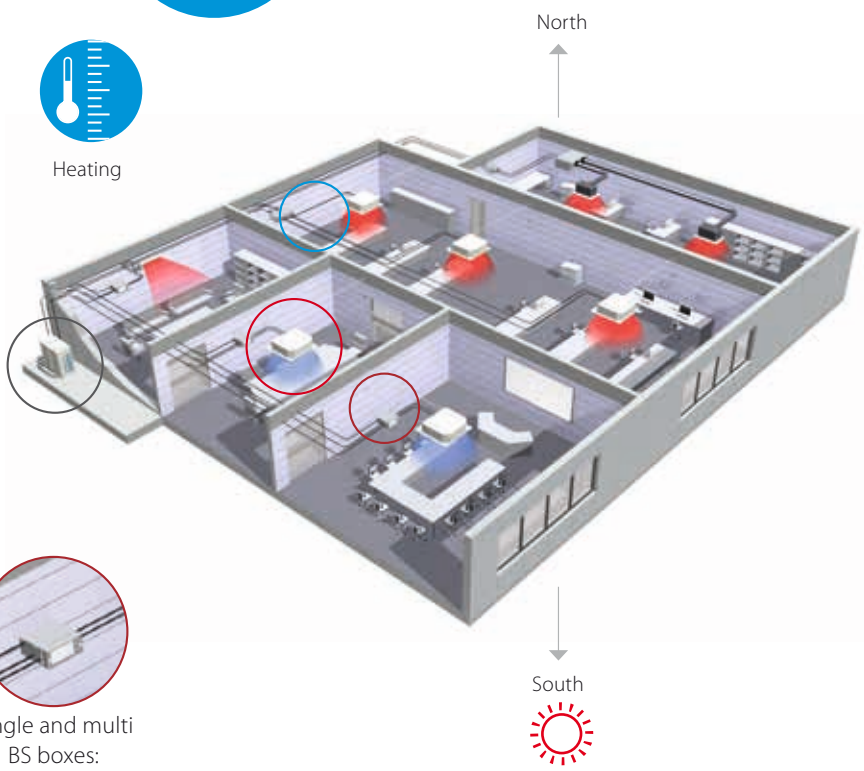
Which VRV

system offers me the best solution?

Heat recovery or heat pump?

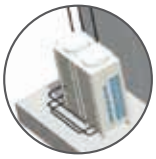
Additional credits for BREEAM certificate

VRV Heat recovery

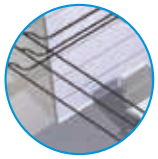


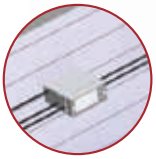
- Simultaneous heating **AND** cooling from one system
- "Free" heating and hot water production by transferring heat from areas requiring cooling
- Maximum individual comfort in all areas
- Technical cooling down to -20°C
- Running costs of a water-based fan coil unit can be 40 to 72% higher compared to a VRV heat recovery system

Components:


Outdoor unit


Indoor unit

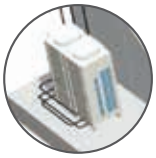

3-pipe refrigerant piping

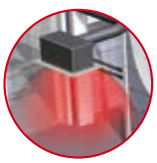

Single and multi BS boxes: allows the individual switching of indoor units between heating and cooling

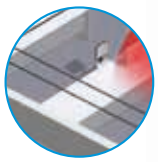
VRV Heat pump

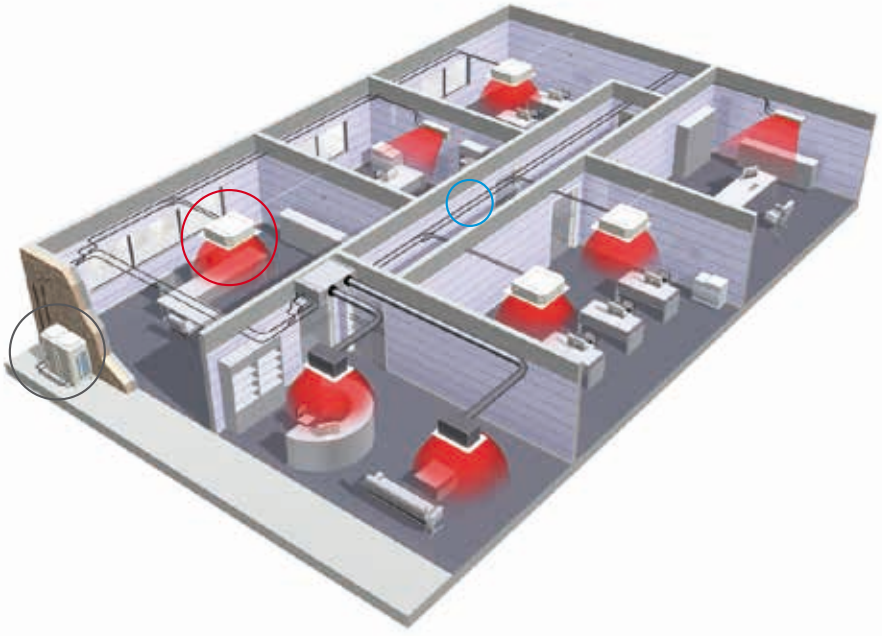
- For either heating **OR** cooling operation from one system

Components:


Outdoor unit


Indoor unit


2-pipe refrigerant piping



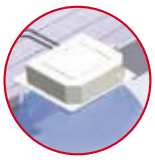
Air cooled or water cooled?

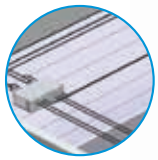
Air Cooled

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

Components:


Outdoor unit

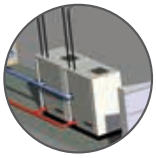

Indoor unit

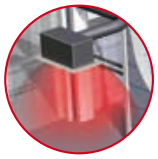

Refrigerant piping

Water Cooled

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

Components:


Outdoor unit


Indoor unit


Refrigerant piping


(Geothermal) water loop

Additional credits for BREEAM certificate


Geothermal application

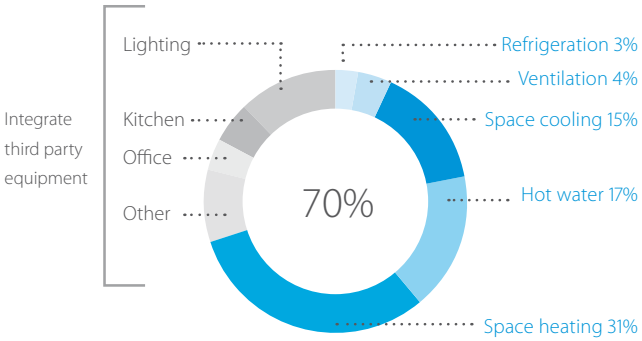
Which applications?

Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into a total solution managing up to 70% of a buildings energy consumption giving large potential to cost saving.

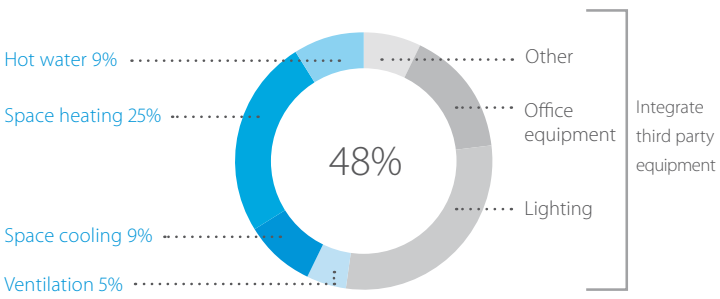
- **Heating and cooling** for year round comfort
- **Hot water** for efficient production of hot water
- **Underfloor heating /cooling** for efficient space heating/cooling
- **Ventilation** for high quality environments
- **Air curtains** for optimum air separation
- **Controls** for maximum operating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

Combine up to 70% of your building's energy consumption

Average hotel energy consumption



Average office energy consumption



One system,

multiple applications for hotels, offices, retail, home …

Heating and cooling

- Combine VRV indoor units with other stylish indoor units in one system
- New round flow cassette sets the standard for efficiency and comfort
- Extensive range of models and capacities for optimal selection

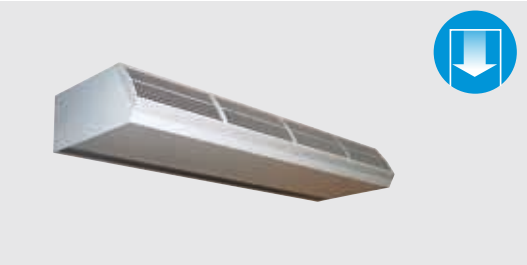
Intelligent control systems

- Mini BMS which connects Daikin and third-party equipment
- Integrate intelligent control solutions with energy management tools to reduce running costs

Low-temperature hydrobox

- Highly efficient space heating through:
  - Underfloor heating
  - Low temperature radiators
  - AHU water heat exchangers
- Hot water from 25 °C to 45 °C
- Cold water from +5°C to +20°C

Biddle air curtain



- Payback time less than 1.5 years compared to electrical air curtain
- A highly efficient solution for doorway climate separation

High temperature hydrobox

- Efficient hot water production for:
  - Showers
  - Sinks
  - Tapwater for cleaning
- Hot water from 25 °C to 80 °C
- NEW Connectable to VRV heat recovery and Water - cooled VRV

Ventilation

- Widest range in DX ventilation – from small heat recovery ventilation to large scale air handling units
- Provides a fresh, healthy and comfortable environment

VRV
for offices and banks

Efficiency in the workplace

Efficient building and facilities management are key to minimising operational costs

Our solutions for offices:

› Significantly reduced costs for hot water and heating by re-using heat recovered from areas requiring cooling
› Unique cassette integrating fully flat into architectural ceilings
› Intelligent sensors
- maximise efficiency by raising the indoor set point or switching off the unit if there is nobody in the room
- maximise comfort by directing the air flow away from people to avoid cold draughts
› A complete Daikin mini Building Energy Management System (BEMS), with the Intelligent Touch Manager
› Plug & play connection to air handling units for a healthier office atmosphere
› Hot water production for sanitary use (e.g. kitchens) and space heating (e.g. underfloor loops)
› Truly reliable technical cooling down to -20°C, including duty/standby function

Check on YouTube
www.youtube.com/DaikinEurope

VRV
for hotels

Hospitality with economy

A hotel's reputation depends on how welcome and comfortable guests feel during their stay. Yet at the same time, hotel owners must maintain complete control of their operating costs and energy consumption.

Our solutions for hotels:

› Low cost heating and hot water by recovering heat from areas requiring cooling
› The perfect personal environment for guests by simultaneously heating spaces while cooling others
› Flexible installation: the outdoor unit can be installed outdoors to maximise hospitality space or indoors to minimise external space or noise in city centres
› Concealed ceiling units developed for small, well-insulated rooms such as hotel bedrooms, offering very low sound levels ensuring a good night's rest
› Smart energy management via Intelligent Touch Manager puts the hotel owner in full control of energy costs
› Intelligent and user-friendly hotel room controllers change the set point automatically when a guest leaves the room or opens the window
› Easy integration in hotel booking software
› Hot water production for bathrooms, underfloor heating and radiators up to 80°C

Check on YouTube
www.youtube.com/DaikinEurope

Hotel

Bank / Retail

VRV for retail

Reducing retail costs

Retailers are under pressure to reduce both store development costs and running costs. That is why affordable, energy-efficient solutions are vital for minimising lifetime costs, while ensuring compliance with the latest regulations.

Our retail solutions:

› Compact inverter heat pump technology
› Flexible installation: the outdoor unit can be installed outdoors to maximise commercial space or indoors to minimise external space or noise in city centres
› Unique round flow cassettes with autocleaning panel saving up to 50% of energy use compared to standard cassette units
› Intuitive touch screen intelligent Tablet Controller allowing multi site control via the Daikin Cloud Service
› Easy to use remote control with lock-key function to avoid improper use
› Individual control of each indoor unit or shop zone
› Savings on runningcost via pre/post trade modes, limiting energy use by lights, air conditioning, ...
› The most efficient open-door solution with Biddle air curtains

VRV for residential use

There is no place like home

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

Our residential solutions:

› Lower CO_2 emissions compared to traditional heating systems
› Compact outdoor unit design with a low sound level
› Whisper-quiet indoor units down to 19dBA
› Daikin Emura, iconic design wall mounted unit
› Unique Nexura floor standing unit offering the feel of a radiator with the efficiency of a heat pump
› Units to be concealed in the wall or ceiling to make them completely unnoticed
› User-friendly, intuitive touch control, controlling your entire shop including lights, sensors, ...
› Manage and control multiple shops from a central location via the Daikin Cloud Service
› Up to 9 indoor units that can be connected to one outdoor unit

Want to know more about our commercial solutions?

Check on YouTube

www.youtube.com/DaikinEurope

Residential

VRV IV standard & technologies

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

VRV IV =

3 revolutionary standards

› Variable Refrigerant Temperature

› Continuous comfort during defrost

› VRV configurator

+ unique VRV IV core technologies

› Newly developed inverter compressor

› Refrigerant-cooled PCB

› 4-side heat exchanger

› Predictive control

› Outer rotor DC fan motor

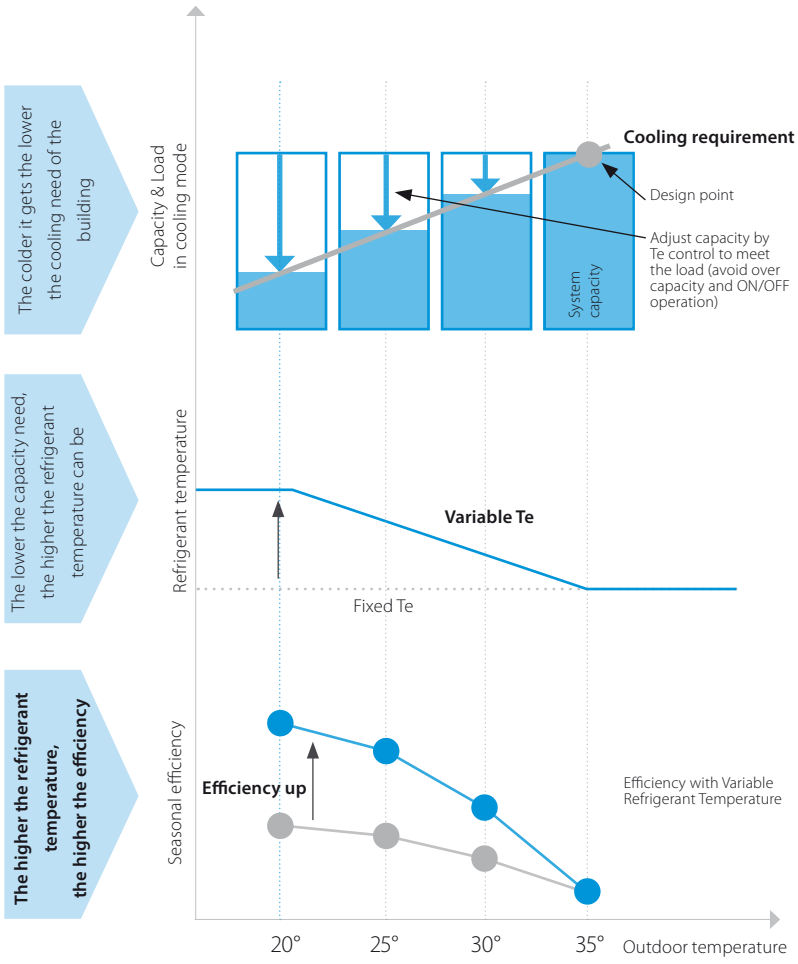
Unique variable refrigerant temperature

Variable Refrigerant Temperature

The biggest leap since the inverter compressor

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

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



How does it work?

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

Daikin VRV IV
Variable Refrigerant Temperature control for energy saving in partial load condition.
The capacity is controlled by the inverter compressor
UNIQUE and variation of the evaporating (Te) and condensing (Tc) temperature of the refrigerant in order to achieve the highest seasonal efficiency.
UNIQUE Evaporating temperature can vary between 3 and 16° which is the widest on the market.

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

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

Success story

Real test: up to 46% less energy consumed

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

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

How effective is the VRV IV heat pump technology?

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

8 Different modes to maximise efficiency and comfort

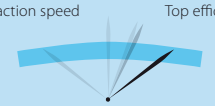
For maximum energy efficiency and customer satisfaction, the outdoor unit needs to adapt the evaporating/condensing temperature at the optimum point for the application.

Check on YouTube

https://www.youtube.com/DaikinEurope

How to set the different modes?

6 patents

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

* Factory setting

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

Measured data

Fashion store Unterhaching (Germany)

› Floor space: 607m²
› Energy cost: 0,18 €/kWh
› System taken into account for consumption:
- VRV IV heat pump with continuous heating
- Round flow cassettes (without auto cleaning panel)
- VAM for ventilation (2x VAM2000)
- Biddle Air curtain.

Real continuous heating

during defrost mode

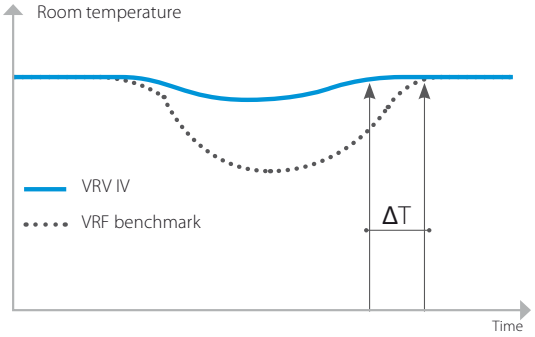
VRV IV continues to provide heating even when in defrost mode, providing an answer to any perceived disadvantages of specifying a heat pump as a monovalent heating system.

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

Check on YouTube

https://www.youtube.com/DaikinEurope

Heat pumps are known for their high energy efficiency in heating, but frost is accumulated on their heat exchanger during heating operation and this must be melted periodically using a defrost function that reverses the refrigeration cycle. This causes a temporary temperature drop and reduced comfort levels inside the building.
Defrosting can take over 10 minutes (depending on the size of the system) and occurs mostly between -7 and +7°C when humidity levels in the air are high, Humidity freezes on the coil, resulting firstly in poor performance and eventually low comfort levels.
The VRV IV has changed the heating paradigm by providing heat even during defrost operation thus diminishing the temperature drop indoors and providing comfort at all times.



How does it work?

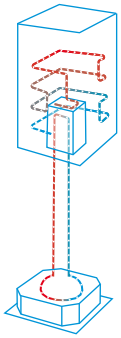
UNIQUE Heat accumulating element

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

The outdoor unit coil is defrosted …

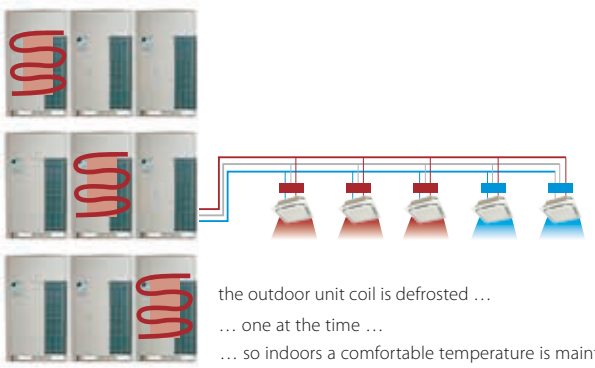
… with the energy stored in the heat accumulating element …

… while indoors a comfortable temperature is maintained.



Alternate defrost

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



the outdoor unit coil is defrosted …
… one at the time …
… so indoors a comfortable temperature is maintained

Available on:

Heat pump
RYYQ8-20T(8)

Water cooled VRV has no defrost cycles

Available on:

Heat pump	Heat recovery	Replacement VRV
RYYQ16-54T(8)	REYQ10-54T	RXYQQ16-42T
RXYQ16-54T(8)		RQCEQ280-848P

VRV Configurator

Software for simplified commissioning, configuration and customisation

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

Check on YouTube

https://www.youtube.com/DaikinEurope

Configurator software for simplified commissioning

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

- less time is required on the roof configuring the outdoor unit
- multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- initial settings on the outdoor unit can be easily retrieved.

Simplified commissioning

Retrieve initial system settings

User friendly interface instead of push buttons

7-segment display

for quick and accurate error diagnosis

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

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

3 digit 7-segment display

Available on:

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

Unique VRV IV core technologies

Newly developed compressor

37 patents

Full inverter

› Enabling variable refrigerant temperature and low start-up currents
› Stepless capacity control

Reluctance brushless DC motor

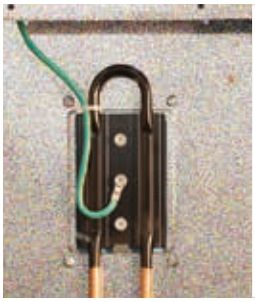
› increased efficiency compared to AC motors by simultaneously using normal and reluctance torque
› Powerful neodymium magnets efficiently generate high torque
› High-pressure oil reduces thrust losses

High efficiency 6-pole motor

› 50% stronger magnetic field and higher rotation efficiency

Thixocasting process

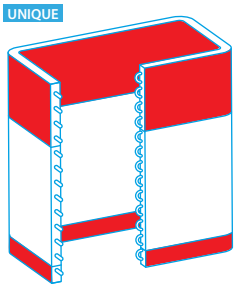
› Compression volume is increased by 50% thanks to a new high-durability material cast in a semi-molten state



Refrigerant-cooled PCB

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

6 patents



4-sided, 3-row heat exchanger

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

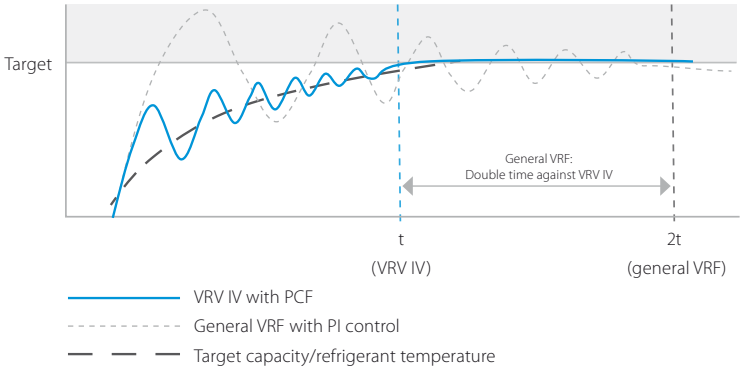
10 patents

UNIQUE

Predictive Control Function (PCF)

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

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



VRV IV: PCF
Compressor works with predictive data for the control

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

Half time against general VRF

General VRF: Pi control
Compressor works with feedback only for the control

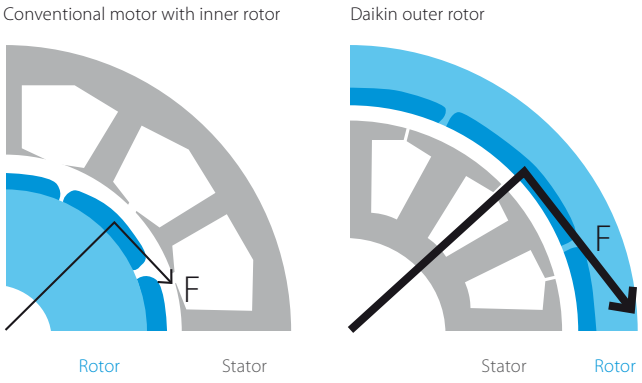
› result: waste operation and longer time before reaching target set point

DC fan motor

UNIQUE

Outer rotor DC motor for higher efficiency

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



Sine wave DC inverter

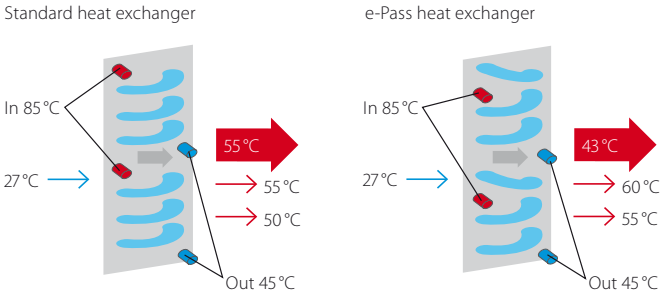
Optimizing the sine wave curve results in smoother motor rotation and improved motor efficiency.

DC fan motor

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

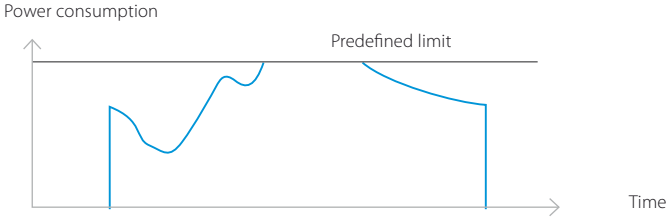
E-Pass heat exchanger

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



I-demand function

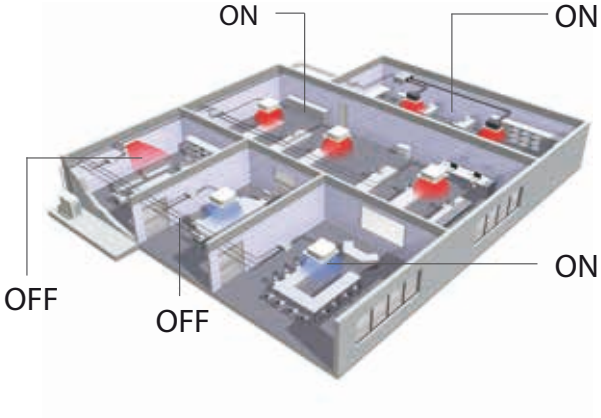
Limit maximum power consumption.
The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.



- Drastically reducing running costs
- Top reliability
- Up to 6 times greater resistance against corrosion

Precise zone control

VRV systems have low running costs because it permits each zone to be controlled individually. That is, only those rooms that require air conditioning will be heated or cooled, while the system can be shut down completely in rooms where no air conditioning is required.



Anti Corrosion Treatment

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

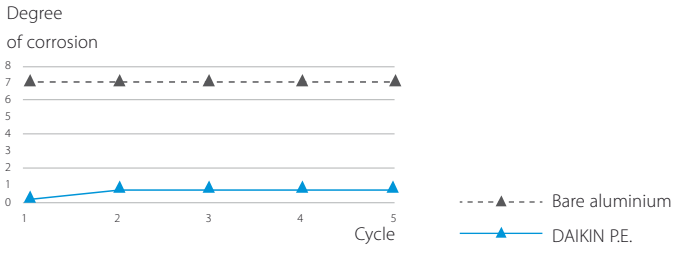
Performed tests:

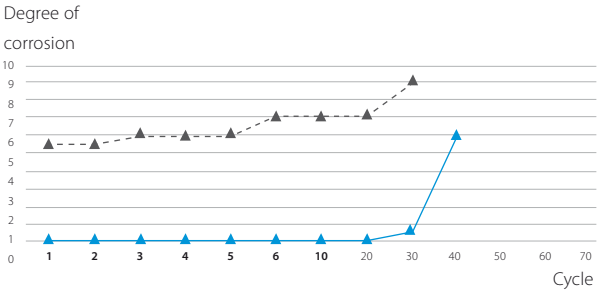
› **VDA Wechseltest**
› Contents of 1 cycle (7 days):
› 24 hours salt spray test SS DIN 50021
› 96 hours humidity cycle test KFW DIN 50017
› 48 hours room temperature & room humidity testing period: 5 cycles

Kesternich test (SO2)

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

An anti-corrosion heat exchanger cutaway view





All inverter compressors

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

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

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

ALL INVERTER

Variable Refrigerant Temperature

Duty Cycling extends operation life

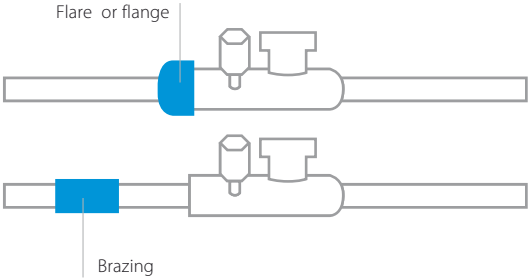
The cyclical start-up sequence of multiple outdoor units systems equalises compressor duty and extends operating life.

Sequential Start

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

Top quality Only brazed connections

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



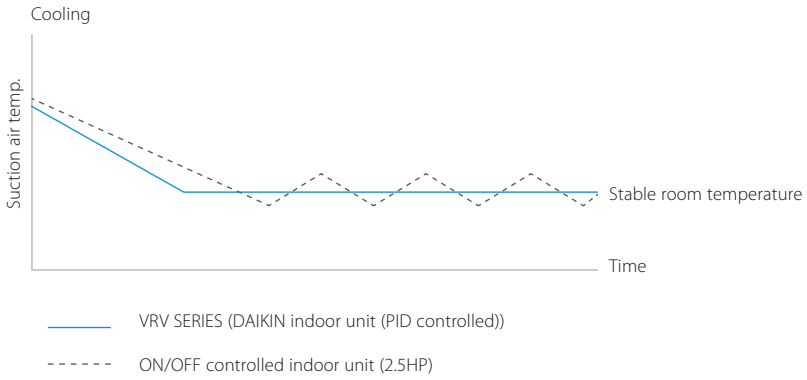
• Comfort guaranteed at all times

Smart Control brings comfort

Stable room temperature

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

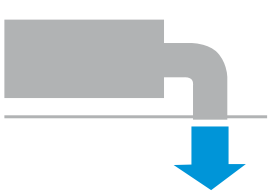
Note: The graph shows the data, measured in a test room assuming actual heating load. The thermostat can control stable room temperature at ± 0.5°C from set point.



No more cold draught

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

Available on all VRV IV units



16°

Constant and high
air discharge temperature

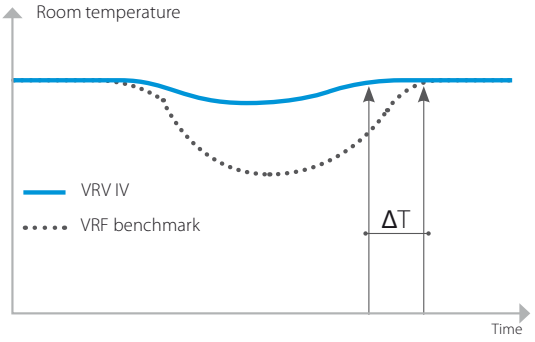
Variable Refrigerant Temperature

Continuous heating

During defrost

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

Available on REYQ-T, RYYQ-T, RXYQ-T(9) and RXYQQ-T



Back-up function

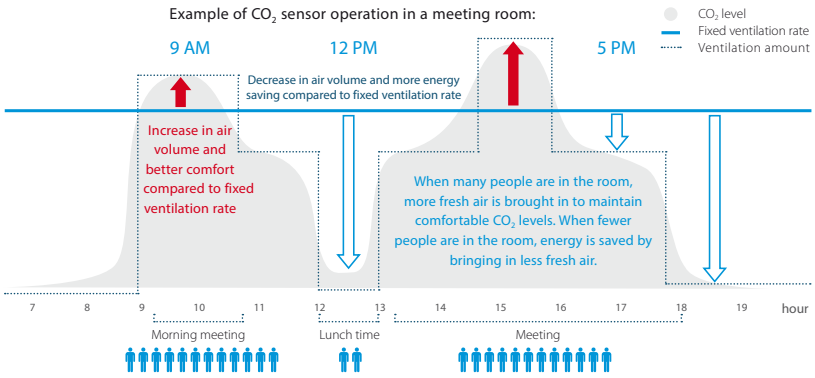
In the event of a compressor malfunction another compressor or outdoor unit will take over in order to maintain 8 hour interim capacity, allowing time for maintenance or repair while comfort remains guaranteed.

Single outdoor unit
with multiple compressors

Multi outdoor unit system

Prevent energy losses from over-ventilation with CO_2 sensor

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO_2 sensor can be installed which switches off the ventilation system when there is enough fresh air in the room, thus saving energy.



Low indoor unit operation sound level

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

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

Daikin indoor units:

DAIKIN emura

19dB(A)

nexura

25.5dB(A)

FXZQ-A

Connectable to all VRV heat pumps

Connectable to VRV IV, VRV IV S-series and VRV IV W-series*

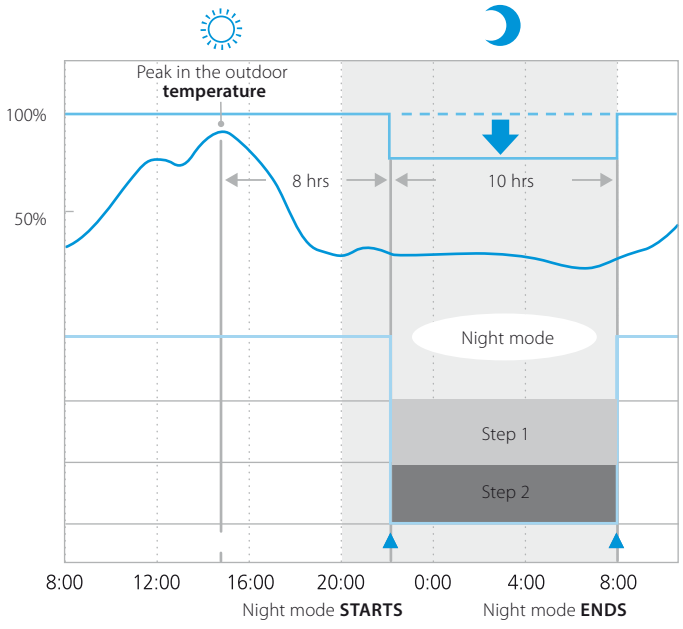
* VRV IV W-series on special order. Consult your local sales representative for more information

Night quiet mode

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

Capacity* %
Load %
Operation Sound dBA

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



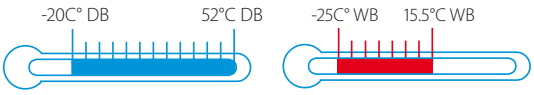
Example for VRV IV heat pump, factory setting.

• Great design flexibility

Wide operation range

Air cooled

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

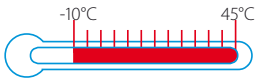


Cooling mode Heating mode

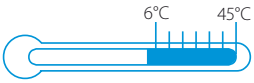
With the technical cooling function, the operation range in cooling of the heat recovery system is extended from -5°C to -20°C [1], making it perfect for integrating server rooms.

Water cooled

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



Heating mode water temperature



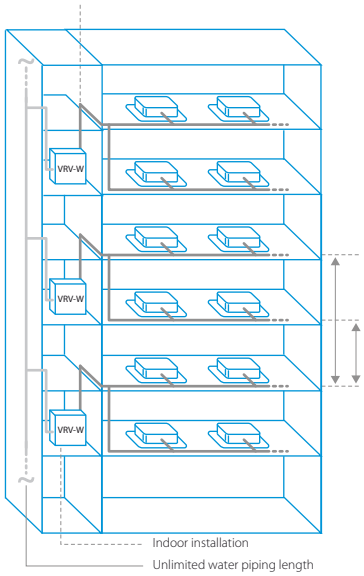
Cooling mode water temperature

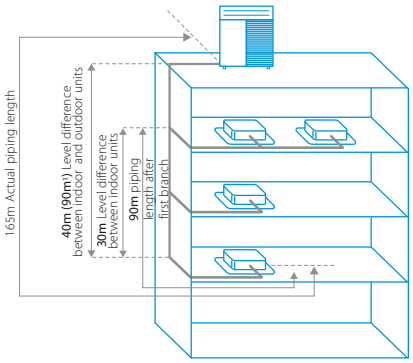
* Ethylene glycol should be added to the water when the water inlet temperature is below 5°C

Flexible piping design

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

[1] Contact your local dealer for more information and restrictions





VRV IV example

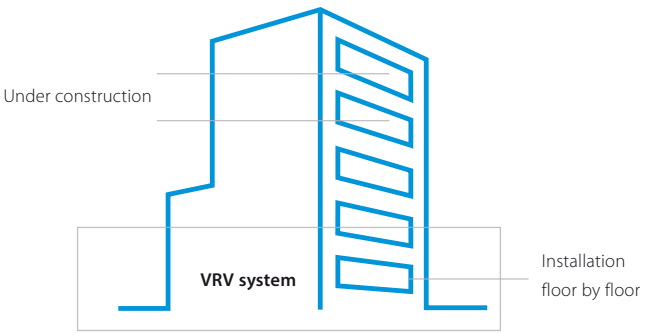
	Air cooled	Water cooled
Total piping length	1000m	300m
Longest length actual (Equivalent)	165m (190m)	120m (140m)
Longest length after first branch	90m[1]	40m (90m[1])
Level difference between indoor and outdoor units	90m[1]	50m (40m[2])
Level difference between indoor units	30m	15m

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

2 In case outdoor unit is located below indoor units

Phased installation

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



Indoor installation

Air cooled

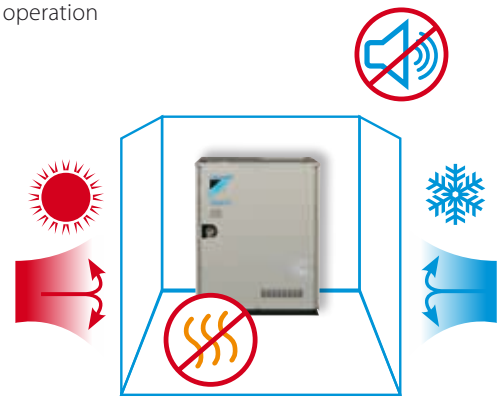
Standard outdoor unit installed indoors
The VRV optimised fan blade shape increases output and reduces pressure loss. Together with the high ESP setting (up to 78.4 Pa), it makes VRV outdoor units ideal for indoor installation using ducts.

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

More details on page 62

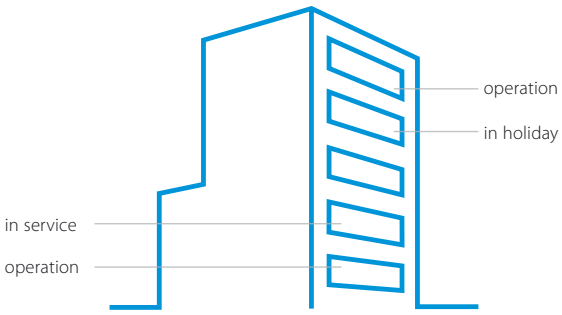
Water cooled

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



Multiple tenants, one outdoor unit

The multi tenant function ensures that the entire VRV system does not shut down when the main power supply of an indoor is switched off.
This means that the indoor unit's main power supply can be turned off when a part of the building is closed or is being serviced without affecting the rest of the building.



2 solutions according to the needs:

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

No structural reinforcement necessary

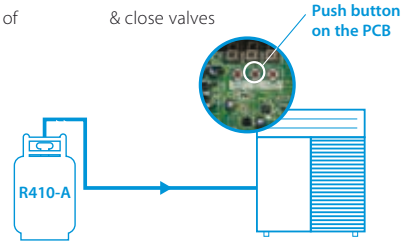
Thanks to the vibration-free and sufficient light construction of the outdoor units, floors do not need to be reinforced, reducing the overall cost of the building when compared to a chiller.

- Fast installation and commissioning
- Easy servicing

Automatic charging & testing

Efficient use of time

	1	2	3	4
Manual	Calculate extra refrigerant volume	Connect first bottle on VRV & start filling process	Check on regular times weight scale to check weight of refrigerant	Stop manually the VRV filling procedure & close valves
Automatic	1	2		
	Connect bottle to VRV & active 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-T, RYYQ-T, RXYQ-T(9), RTSYQ-PA, RQYQ-P, RXYQQ-T, RQCEQ-P3

Did you know …

Optimal charge = optimal efficiency

Planned installation
64 m refrigerant piping
⌄
calculation:
2.2 kg extra refrigerant required

0.5 kg

Real installation
76 m refrigerant piping
⌄
2.7 kg extra refrigerant required in reality

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

Compliance to F-gas regulation

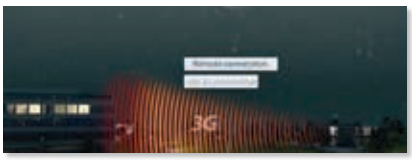
Remote refrigerant containment check

Perform the refrigerant containment check remotely via intelligent Touch Manager.

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

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

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



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

Check the report once the check has been done.

Available on RYYQ-T, RXYQ-T(9), REYQ-T, RTSYQ-PA
Next to remote checking, the function can also be activated on-site via a push button on the PCB.

VRV configurator software

For simplified commissioning, configuration and customisation

Available on REYQ-T, RYYQ-T, RXYQ-T(9), RXYSCQ-TV1, RXYSQ-TV1/TY1, SB.RKXYQ-T and RXYQQ-T

User friendly interface instead of push buttons

3 digit 7-segment display

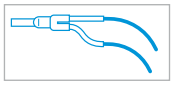
Compact design

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

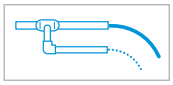
Daikin unified REFNET piping

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

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



REFNET joint



T-joint

REFNET joint

REFNET header

Easy wiring - "Super Wiring" System

Simplified wiring

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

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

Cross wiring check

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

Auto Address Setting Function

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

* auto adress setting fuction is not available for centralized operation

Why Maintenance?

Peace of mind

Daikin Service and our Service Partner Network teams strive to develop smart services & solutions to exceed your expectations. Ensuring that your VRV systems are maintained by professionals gives you peace of mind!

Improved Safety

When a VRV unit doesn´t operate in optimal condition over longer periods of time, it could cause unsafe working conditions or accidents. Regular maintenance ensures the unit operates safely and complies with local regulations and requirements.

Full Legal Compliance

Knowing that your VRV is maintained and serviced gives you the assurance all relevant legal requirements (e.g. F-gas regulation) are fulfilled.
REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Healthy Air

A properly maintained VRV system will not only keep premises warm or cool, but it will prevent problems with air quality. Clean filters and coils mean better breathing for all users. An unmaintained unit is a breeding ground for dirt, mould and bacteria, all of which can cause or worsen respiratory problems for those living or working in the building or house.

Cost Savings

In the long run, maintenance is always cheaper than ad-hoc service interventions. Preventive maintenance allows you and Daikin to plan ahead and avoid rushed interventions. Our specialists will come prepared, thus avoiding repeated visits and extra interruptions.

Another benefit is the clear and transparent costs which can easily be budgeted, as well as clear and well-founded lifecycle reports which indicate future needs and requirements to be considered well in advance. Over time this reduces the Total Cost of Ownership (TCO) and related operational costs.

Minimized System Downtime

Scheduled care visits are transparent and easy to plan which gives sufficient time to find suitable dates for visits to avoid impact on production or comfort.
A well-maintained system is less likely to fail during high season. Keeping a unit up-to-date on all inspections and maintenance checks means less worry that the unit will break down when it is needed the most.

Increased System Efficiency

Regular maintenance of a VRV system ensures that electricity costs and performance are not jeopardized, and that the safety features and the integrity of the system are in line with the latest standards and regulations.
Routine maintenance such as inspections, oil and fluid changes, part replacements and other little fixes can help your VRV to run much more efficiently. In turn, you will benefit from fuel and energy savings because the unit will be running at peak performance.

Emergency Call-out

In case your VRV unit should still break down, all Daikin Care packages include access to a Hotline number for emergency call-out. Preventive and Extended Care also include Emergency Service Hotline access outside of regular office hours.

Genuine Spare Parts, Tools and Equipment

The spare parts used by Daikin Service or our Service Partner Network are all certified by Daikin, which means that the risk of failure and disturbances can be reduced while ensuring that the warranty is valid. In case opening, overhaul or repair is needed, Daikin as an OEM manufacturer has all the original tools, casts and equipment to ensure the repair is carried out according to factory recommendations and will keep your equipment up and running.

Daikin uses advanced service tools when we care for our VRV systems. These tools are not found on the open market and they facilitate advanced troubleshooting and reporting to be done to ensure that the VRV is optimized and parametrised correctly as well as verifying the integrity of the VRV system.

Attractive Modernisation Solutions

Daikin also offers attractive modernisation solutions (retrofit or full replacement) for a range of older VRVs. In the case of retrofit, core parts of the unit will be replaced to ensure it can run for many more years. Using Daikin certified retrofit solutions from Daikin or Daikin Certified partners allow you to enjoy the benefits of reduced operating costs, no need to refurbish or reinstall and will include an attractive warranty policy if performed under a care agreement

VRV Outdoor Systems

A solution for every application

VRV

Outdoor units

Overview of functions

	Widest range of BS boxes / Unique continuous heating			Widest range / Unique product						New range (Summer 2017)	
	VRV IV Heat recovery	**VRV IV heat pump with continuous heating**	**VRV IV heat pump without continuous heating**	**VRV IV S-series (compact)**	**VRV IV i-series**	**VRV III-C**	**VRV Classic**	**Replacement VRV IV heat pump**	**Replacement VRV III Heat recovery**	**VRV IV W-series**	**VRV IV W+series**
	REYQ-T	RYYQ-T	RXYQ-T(9)	RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1	SB.RKXYQ-T	RTSYQ-PA	RXYCQ-A	RQYQ-P RXYQQ-T	RQCEQ-P	RWETQ-T8	RWEYQ-T9
Page	**40**	**50**	**50**	**58**	**76**	**88**	**94**	**99**	**99**	**110**	**120**
Variable Refrigerant Temperature	●	●	●	●	●	✕	✕	●	✕	●	●
Continuous heating (heat accumulating element)	✕	●	✕	✕	✕	✕	✕	✕	✕	-	-
Continuous heating (alternate defrost)	●	●	✕	✕	✕	✕	✕	✕	✕	-	-
VRV configurator	●	●	●	●	●	✕	✕	●	✕	✕	●
7 segment display	●	●	●	✕	✕	✕	✕	●	✕	✕	●
Automatic refrigerant charge	●	●	●	✕	✕	●	✕	●	●	✕	✕
Refrigerant containment check	●	●	●	✕	✕	●	✕	✕	✕	✕	✕
Night quiet mode	●	●	●	●	●	●	✕	●	●	-	-
Low noise function	●	●	●	●	●	●	●	●	●	-	-
Connectable to stylish indoor units (Daikin Emura, Nexura)	✕	●	●	● (2)	✕	✕	✕	✕	✕	● (1)	● (2)
Connectable to LT hydrobox for hot water	●	●	●	✕	✕	✕	✕	✕	✕	✕	●
Connectable to HT hydrobox for hot water	●	✕	✕	✕	✕	✕	✕	✕	✕	● (1)	●
Full inverter compressors	●	●	●	●	●	✕	✕	●	●	●	●
Gas cooled PCB	●	●	●	(●) not available on RXYSQ4,5,6,8TY1	✕	✕	✕	●	✕	✕	✕
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 / power limitation	●	●	●	●	●	●	●	●	●	●	●

(1) special order unit. Contact your local sales representative

(2) Either connect VRV or stylish indoor units

Products overview VRV

	Model		Product name	PG	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28
Air cooled - heat recovery	VRV IV heat recovery	Best efficiency & comfort solution › Fully integrated solution with heat recovery for maximum efficiency › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains › "Free" heating and hot water through heat recovery › The perfect personal comfort for guests/tenants via simultaneous cooling and heating › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating › Allows technical cooling › Widest range of BS boxes on the market	REYQ-T VRV IV	40				●	●	●		●	●	●	●						
									○		○		○	○	○	○	○	○	○
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, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-T(8) VRV IV	50				●	●	●		●	●	●	●						
									○		○		○	○	○	○	○	○	○
	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, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-T(8) VRV IV	52				●	●	●		●	●	●	●						
									○		○		○	○	○	○	○	○	○
	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 or stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact	58	●	●														
	VRVIV-S series	Space saving solution without compromising on efficiency › Space saving trunk design for flexible installation › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV or stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV1/TY1 VRV IV S-series	TV1 62	●	●	●													
				TY1	●	●	●	●	●	●										
	UNIQUE VRV IVheat pump for indoor installation	The invisible VRV › Unique VRV heat pump for indoor installation › Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains	SB.RKXYQ-T* VRV IV i-series	76		○	○	○	NEW											
	VRV III heat pump, optimised for heating	Where heating is priority without compromising on efficiency › Suitable for single source heating › Extended operation range down to -25°C in heating › Stable heating capacity and high efficiencies at low ambient temperatures	RTSYQ-PA VRV III-C	88					○			○	○		○					
	VRV Classic	Classic VRV configuration › For standard cooling & heating requirements › Connectable to VRV indoor units, controls and ventilation	RXYCQ-A VRV Classic	94				○	○	○		○	○	○	○					
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 interuption of daily business while replacing your system › Replace Daikin and other manufacturers systems safely	RQCEQ-P* VRV III-Q	99					○		○		○	○	○	○	○	○	○
	heat pump	Quick & quality replacement for R-22 and R-407C systems › Cost-effective and fast replacement through re-use of exisiting piping › Drastically improve your comfort, efficiency and reliability › No interuption of daily business while replacing your system › Replace Daikin and other manufacturers systems safely › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQQ-T* VRV IV Q-series	99		●		●	●	●		●	●	●	●					
									○		○		○	○	○	○	○	○	○
Water cooled	Water cooled VRV IV NEW	Ideal for high rise buildings, using water as heat source › Reduced CO2 emissions thanks to the use of geothermal energy as a renewable energy source › No need for an external heating or cooling source when used in geothermal mode › Compact & lightweight design can be stacked for maximum space saving › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature › Variable Water Flow control option increases flexibility and control › Mixed connection of HT hydroboxes and VRV indoor units › Either connect VRV or stylish indoor units (Daikin Emura, Nexura › 2 analogue input signals allowing external control	RWEYQ-T8* VRV IV W-series	110				●	●												
									○		○		○	○	○	○	○	○	○
			RWEYQ-T9* VRV IV W-series	110				●	●	●		●								
									○		○		○	○	○	○	○	○	○

* Not Eurovent certified

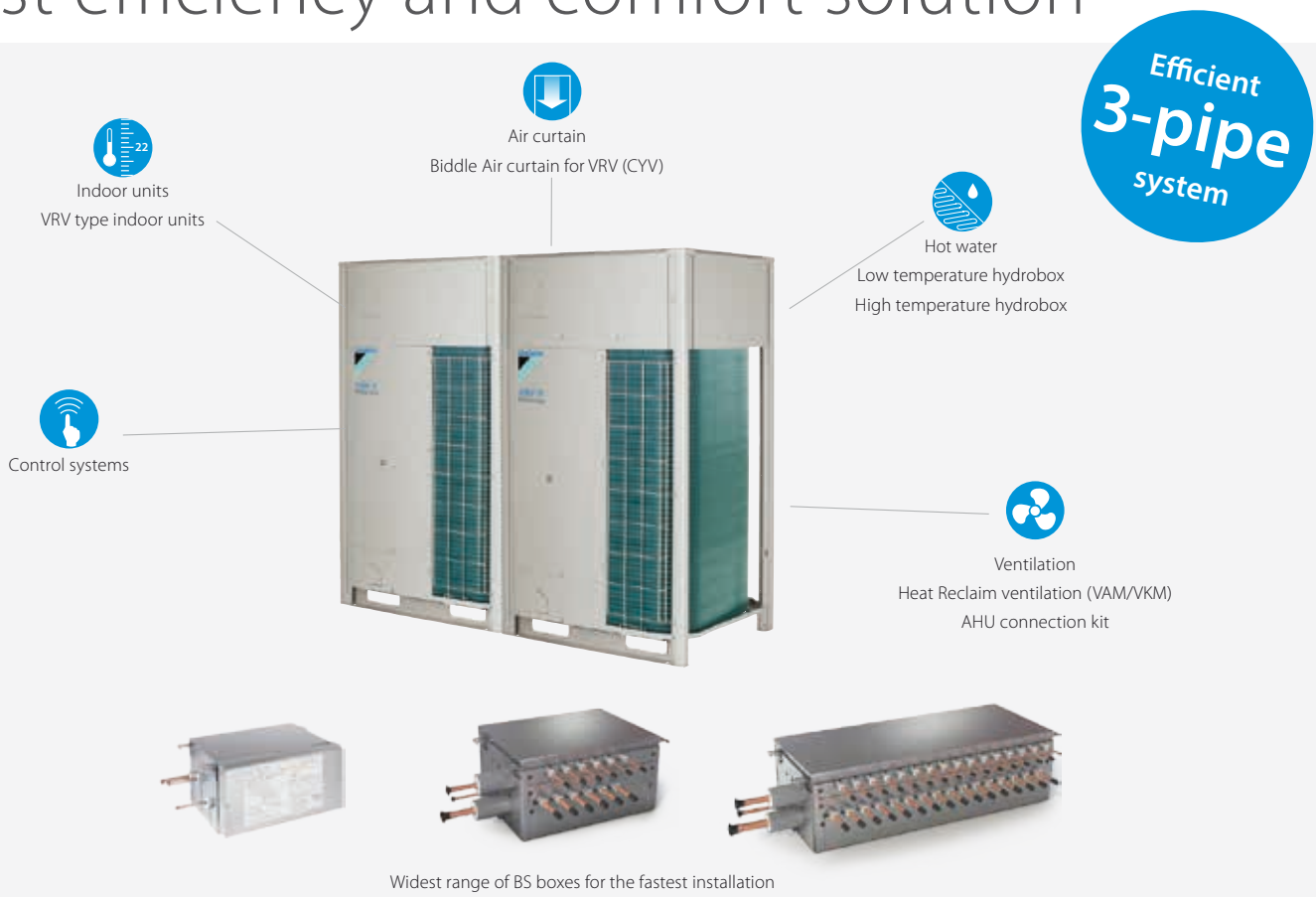
● Single unit
○ Multi combination

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
30	32	34	36	38	40	42	44	46	48	50	52	54										
													VRV IV Heat Recovery REYQ-T	○	×	○	○	○	○	×	○	› Standard total system connection ratio limit: 50 ~ 130%
													with only VRV indoor units	✓								
													with LT/HT Hydroboxes	✓		✓	✓	✓				› Max 32 indoor units, even on 16HP and larger systems › Total system connection ratio up to 200% possible
													HRV units VAM-, VKM-	✓		✓	✓	✓	✓		✓	
●	●	●	●	●	●	●	●	●	●	●	●	●	AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	› Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is allways neccessary
													Biddle air curtain CYV-DK-	✓				✓	✓		✓	
													VRV IV Heat Pump RYYQ-T(8) / RXYQ-T(8)	○	○	○	×	○	○	○	○	› 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
●	●	●	●	●	●	●	●	●	●	●	●	●	with LT Hydroboxes	✓		✓		✓				› Max 32 indoor units, even on 16HP and larger systems › Contact Daikin in case of multi-module systems (>20HP)
													HRV units VAM-, VKM-	✓	✓	✓		✓	✓		✓	
													AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	
													AHU connection EKEXV + EKEQFCBA							✓		
													Biddle air curtain CYV-DK-	✓				✓	✓		✓	
													VRV IV-S RXYSQ-/RXYSCQ-	○	○	×	×	○	○	○	○	› Standard total system connection ratio limit: 50 ~ 130%
													with VRV indoor units only	✓				✓	✓		✓	
													with residential indoor units only		✓							› With residential indoor: connection ratio limit: 80 ~ 130%
													AHU connection EKEXV + EKEQFCBA							✓		
													VRV IV i series SB.RKXYQ-T	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
													VRV III Cold Region RTSYQ-PA	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
													VRV Classic RXYCQ-A	✓	×	×	×	✓	×	×	×	› Standard total system connection ratio limit: 50 ~ 120% › In case of using at least one FXFQ20~25 indoor units on 8HP or 10HP models, the maximum connection ratio is 100%.
●													**VRV III-Q Replacement H/R** RQCEQ-P	✓	×	×	×	✓	×	×	×	› Standard total system connection ratio limit: 50 ~ 130%
●	●	●	●	●	●	●							**VRV IV-Q Replacement H/P** RXYQQ-T	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
													VRV IV-W Water-cooled VRV RWEYQ-T9	○	○	×	○	○	○	○	○	› Standard total system connection ratio limit: 50 ~ 130%
●													with VRV indoor units	✓			✓	✓	✓	✓	✓	
													with split indoor units		✓							
●	●	●	●	●	●	●							with HT hydrobox	✓			✓					

○ ... 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

VRV IV heat recovery

Best efficiency and comfort solution



Widest range of BS boxes for the fastest installation

Variable Refrigerant Temperature

VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

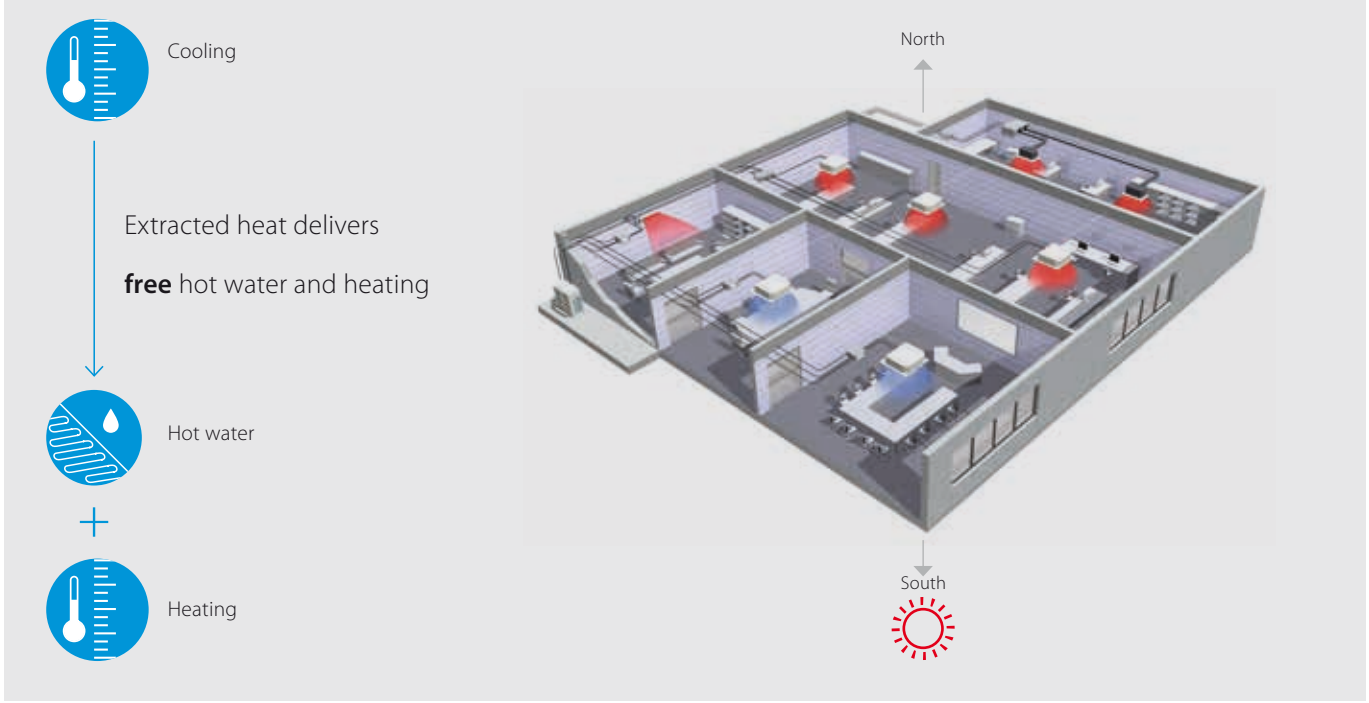
Continuous heating

The new standard in heating comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

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



"Free" heat and hot water production

Until now, most commercial buildings have relied on separate systems for cooling, heating, hot water and so on, which results in a lot of wasted energy.

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

Improved efficiency

In heat-recovery operation the VRV IV is up to 15% more efficient compared to VRV III. In single mode operation, the seasonal efficiency of the system can be even as much as 28% higher - thanks to the variable refrigerant temperature technology - compared to a conventional VRF system.

Optimised Partition of Heat Exchanger for highest seasonal efficiency in heat recovery mode

Vertically divided heat exchanger with an optimized ratio for mix mode operation.
This improves heat recovery efficiency by reducing radiation losses.

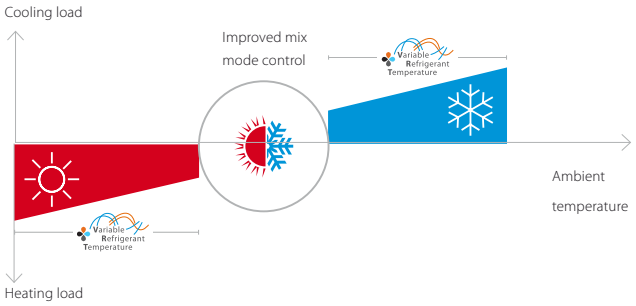
Wide heating operation range

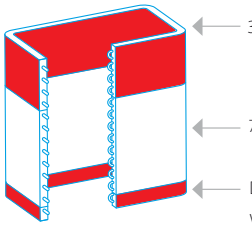
VRV IV heat recovery has a standard operation range down to -20°CWB in heating.
It can also provide cooling down to -20°CDB for technical server rooms (field setting).

Maximum comfort

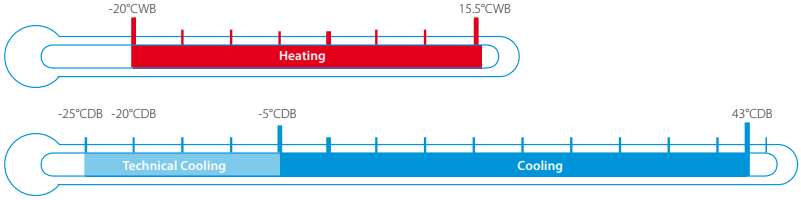
A VRV heat-recovery system allows simultaneous cooling and heating.

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





During heating, the bottom of the heat exchanger stays hot, which minimises frost accumulation and defrost periods.



Advantages

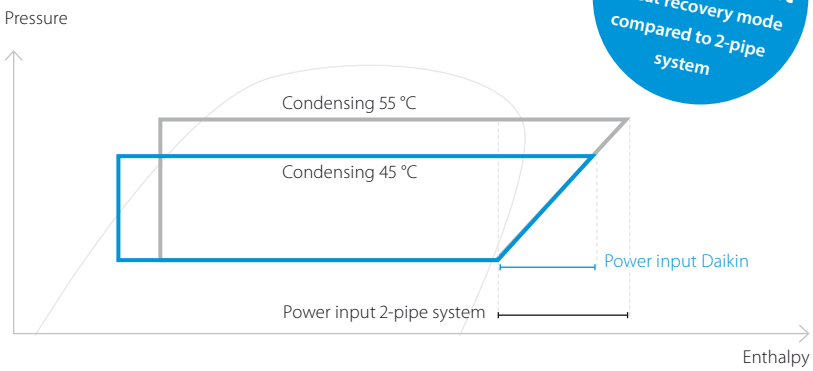
of 3-pipe technology

More "free" heat

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

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

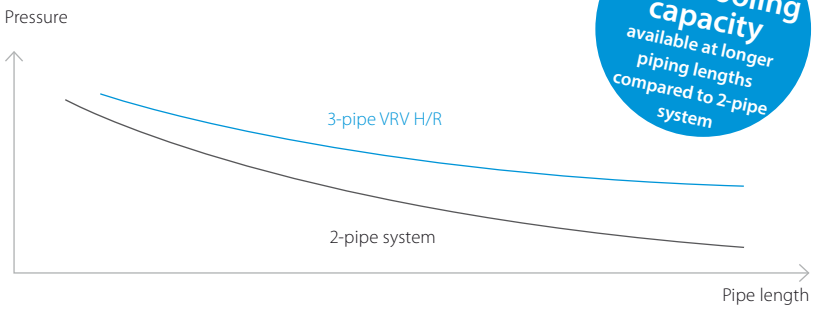
5 to 15% more efficient in heat recovery mode compared to 2-pipe system



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 bigger pressure drop

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



Save on refrigerant

- Smaller diameter pipes and 3-pipe system results in up to 36% less refrigerant charge compared to 2-pipe systems, saving on refrigerant cost and reducing environmental impact

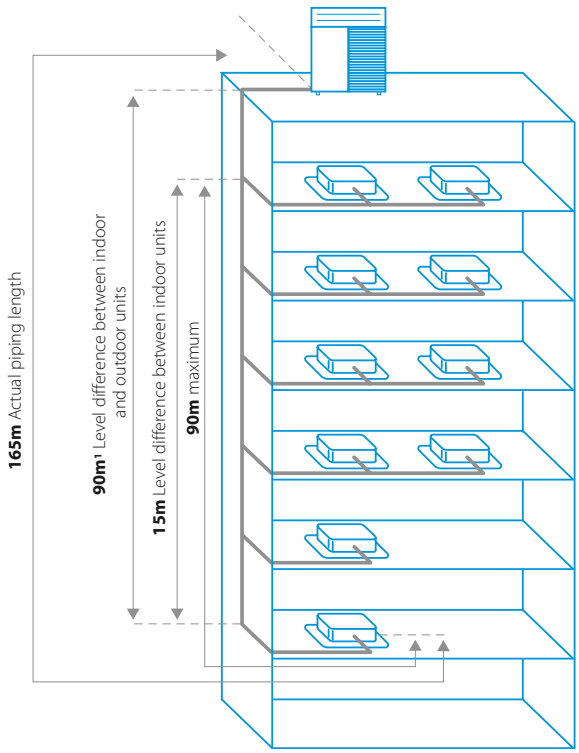
Freely combine outdoor units

Combine outdoor units flexibly to reduce your carbon footprint, optimise your system for continuous heating, and achieve the highest efficiency.

Flexible piping design

Total piping length	1000m
Longest length actual (Equivalent)	165m (190m)
Longest length after first branch	90m[1]
Level difference between indoor and outdoor units	90m[1]
Level difference between indoor units	15m

[1] Outdoor unit in highest position. Consult your local sales representative for restrictions on piping lengths



Fully redesigned
BS boxes

Maximum design flexibility and installation speed

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

Single port

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


BS1Q 10, 16, 25 A

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 4 Q14 AV1


BS 6, 8 Q14 AV1

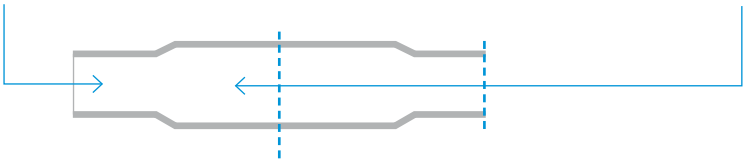

BS 10, 12 Q14 AV1


BS 16 Q14 AV1

Faster installation thanks to open connection

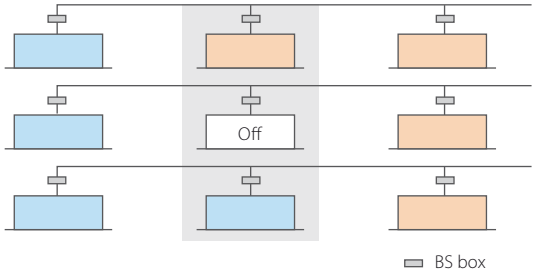
› No need to cut the pipe before brazing – for indoor units smaller or equal to 5.6 kW (50 class)

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

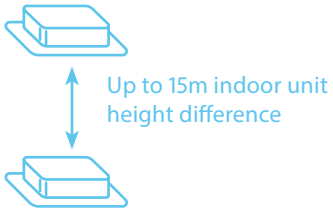


Maximum comfort at all times

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.



VRV IV heat recovery

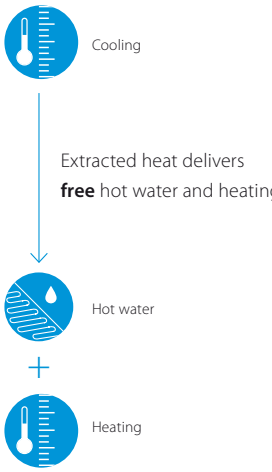


Best efficiency & comfort solution

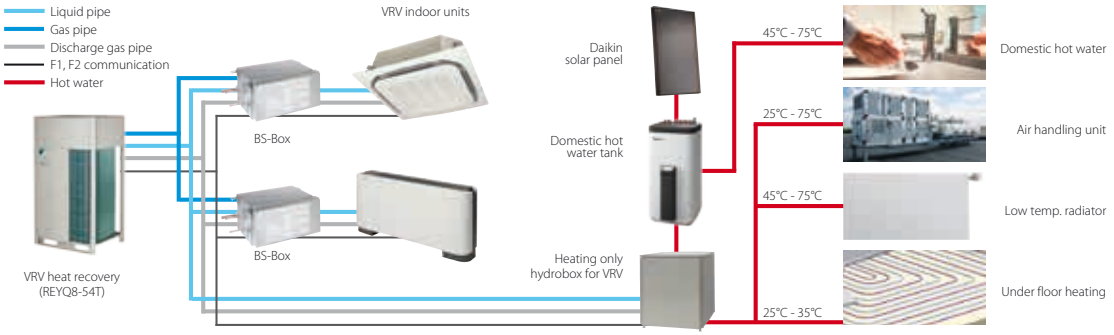
- Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8 !
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- „Free" heating and hot water production 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
- Free combination of outdoor units to meet installation space or efficiency requirements
- 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

Outdoor system				**REYQ**	**8T**	**10T**	**12T**	**14T**	**16T**	**18T**	**20T**
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Nom.	35°CDB		kW	22,4 (1)	28,0 (1)	33,5 (1)	40,0 (1)	45,0 (1)	50,4 (1)	56,0 (1)
Heating capacity	Nom.	6°CWB		kW	22,4 (2)	28,0 (2)	33,5 (2)	40,0 (2)	45,0 (2)	50,4 (2)	56,0 (2)
	Max.	6°CWB		kW	25,0 (2)	31,5 (2)	37,5 (2)	45,0 (2)	50,0 (2)	56,5 (2)	63,0 (2)
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	5,31 (1)	7,15 (1)	9,23 (1)	10,7 (1)	12,8 (1)	15,2	18,6
	Heating	Nom.	6°CWB	kW	4,75 (2)	6,29 (2)	8,05 (2)	9,60 (2)	11,2 (2)	12,3	14,9
		Max.	6°CWB	kW	5,51 (2)	7,38 (2)	9,43 (2)	11,3 (2)	12,9 (2)	14,3	17,5
EER at nom. capacity	35°CDB			kW/kW	4,22 (1)	3,92 (1)	3,63 (1)	3,74 (1)	3,52 (1)	3,32	3,01
COP at nom. capacity	6°CWB			kW/kW	4,72 (2)	4,45 (2)	4,16 (2)	4,17 (2)	4,02 (2)	4,10	3,76
COP at max. capacity	6°CWB			kW/kW	4,54 (2)	4,27 (2)	3,98 (2)		3,88 (2)	3,95	3,60
ESEER - Automatic					7,41	7,37	6,84	7,05	6,63	6,26	5,68
Maximum number of connectable indoor units					64 (3)						
Indoor index connection	Min.				100	125	150	175	200	225	250
	Nom.				200	250	300	350	400	450	500
	Max.				260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth		mm	1.685x930x765			1.685x1.240x765			
Weight	Unit			kg	210	218		304	305	337	
Fan	Air flow rate	Cooling	Nom.	m^3/min	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dBA	58		61		64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5,0~43,0						
	Heating	Min.~Max.		°CWB	-20~15,5						
Refrigerant	Type				R-410A						
	GWP				2.087,5						
	Charge			TCO_2eq	20,2	20,5	20,7	24,6			
				kg	9,7	9,8	9,9	11,8			
Piping connections	Liquid	OD		mm	9,52		12,7			15,9	
	Gas	OD		mm	19,1	22,2	28,6				
	Total piping length	System	Actual	m	1.000						
	Discharge gas	OD		mm	15,9	19,1		22,2			28,6
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25		32	40		50

Outdoor system				**REYQ**	**10T**	**13T**	**16T**	**18T**	**20T**	**22T**	**24T**	**26T**	**28T**	**30T**	**32T**
System	Outdoor unit module 1				REMQ5T			REYQ8T		REYQ10T	REYQ8T		REYQ12T		REYQ16T
	Outdoor unit module 2				REMQ5T	REYQ8T		REYQ10T	REYQ12T		REYQ16T	REYQ14T	REYQ16T	REYQ18T	REYQ16T
Capacity range				HP	10	13	16	18	20	22	24	26	28	30	32
Cooling capacity	Nom.	35°CDB		kW	28,0 (1)	36,4 (1)	44,8 (1)	50,4 (1)	55,9 (1)	61,5 (1)	67,4 (1)	73,5 (1)	78,5 (1)	83,9 (1)	90,0 (1)
Heating capacity	Nom.	6°CWB		kW	28,0 (2)	36,4 (2)	44,8 (2)	50,4 (2)	55,9 (2)	61,5 (2)	67,4 (2)	73,5 (2)	78,5 (2)	83,9 (2)	90,0 (2)
	Max.	6°CWB		kW	32,0 (2)	41,0 (2)	50,0 (2)	56,5 (2)	62,5 (2)	69,0 (2)	75,0 (2)	82,5 (2)	87,5 (2)	94,0 (2)	100,0 (2)
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	6,34	8,48	10,62	12,46	14,54	16,38	18,11	19,93	22,03	24,43	25,6
	Heating	Nom.	6°CWB	kW	5,42	7,46	9,50	11,04	12,80	14,34	15,95	17,65	19,25	20,35	22,4
		Max.	6°CWB	kW	6,50	8,76	11,02	12,89	14,94	16,81	18,41	20,73	22,33	23,73	25,8
EER at nom. capacity	35°CDB			kW/kW	4,42	4,29	4,22	4,04	3,84	3,75	3,72	3,69	3,56	3,43	3,52
COP at nom. capacity	6°CWB			kW/kW	5,17	4,88	4,72	4,57	4,37	4,29	4,23	4,16	4,08	4,12	4,02
COP at max. capacity	6°CWB			kW/kW	4,92	4,68	4,54	4,38	4,18	4,10	4,07	3,98	3,92	3,96	3,88
ESEER - Automatic					7,77	7,54	7,41	7,38	7,06	7,07	6,87	6,95	6,72	6,48	6,63
ESEER - Standard					6,55	6,36	6,25	5,98	5,68	5,54	5,46	5,41	5,23	5,03	5,14
Maximum number of connectable indoor units					64 (3)										
Indoor index connection	Min.				125	162,5	200	225	250	275	300	325	350	375	400
	Nom.				250	325,0	400	450	500	550	600	650	700	750	800
	Max.				325	422.5	520	585	650	715	780	845	910	975	1.040
Piping connections	Liquid	OD		mm	9,52	12,7		15,9				19,1			
	Gas	OD		mm	22,2	28,6					34,9				
	Total piping length	System	Actual	m	500					1.000					
	Discharge gas	OD		mm	19,1		22,2		28,6						
Current - 50Hz	Maximum fuse amps (MFA)			A	40				50	63					80
Continuous heating					v										



REYQ-T



Outdoor system				REYQ	34T	36T	38T	40T	42T	44T	46T	48T	50T	52T	54T
System	Outdoor unit module 1				REYQ16T		REYQ8T	REYQ10T		REYQ12T	REYQ14T	REYQ16T			REYQ18T
	Outdoor unit module 2				REYQ18T	REYQ20T	REYQ12T		REYQ16T					REYQ18T	
	Outdoor unit module 3				-		REYQ18T		REYQ16T				REYQ18T		
Capacity range				HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	Nom.	35°CDB		kW	95,4 (1)	101,0 (1)	106,3 (1)	111,9 (1)	118,0 (1)	123,5 (1)	130,0 (1)	135,0 (1)	140,4 (1)	145,8 (1)	151,2 (1)
Heating capacity	Nom.	6°CWB		kW	95,4 (2)	101,0 (2)	106,3 (2)	111,9 (2)	118,0 (2)	123,5 (2)	130,0 (2)	135,0 (2)	140,4 (2)	145,8 (2)	151,2 (2)
	Max.	6°CWB		kW	106,5 (2)	113,0 (2)	119,0 (2)	125,5 (2)	131,5 (2)	137,5 (2)	145,0 (2)	150,0 (2)	156,5 (2)	163,0 (2)	169,5 (2)
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	28,0	31,4	29,74	31,58	32,75	34,83	36,3	38,4	40,8	43,2	45,6
	Heating	Nom.	6°CWB	kW	23,5	26,1	25,10	26,64	28,69	30,45	32,00	33,6	34,7	35,8	36,9
		Max.	6°CWB	kW	27,2	30,4	29,24	31,11	33,18	35,23	37,1	38,7	40,1	41,5	42,9
EER at nom. capacity	35°CDB			kW/kW	3,41	3,22	3,57	3,54	3,60	3,55	3,58	3,52	3,44	3,38	3,32
COP at nom. capacity	6°CWB			kW/kW	4,06	3,87	4,24	4,20	4,11	4,06		4,02	4,05	4,07	4,10
COP at max. capacity	6°CWB			kW/kW	3,92	3,72	4,07	4,03	3,96	3,90	3,91	3,88	3,90	3,93	3,95
ESEER - Automatic					6,43	6,06	6,66	6,68	6,79	6,68	6,75	6,63	6,49	6,37	6,26
Maximum number of connectable indoor units					64 (3)										
Indoor index connection	Min.				425	450	475	500	525	550	575	600	625	650	675
	Nom.				850	900	950	1.000	1.050	1.100	1.150	1.200	1.250	1.300	1.350
	Max.				1.105	1.170	1.235	1.300	1.365	1.430	1.495	1.560	1.625	1.690	1.755
Piping connections	Liquid	OD		mm	19,1										
	Gas	OD		mm	34,9	41,3									
	Total piping length	System	Actual	m	1.000										
	Discharge gas	OD		mm	28,6		34,9								
Current - 50Hz	Maximum fuse amps (MFA)			A	80			100			125				
Continuous heating					v										

Outdoor unit module				REMQ	5T
Dimensions	Unit	Height/Width/Depth		mm	1.685/930/765
Weight	Unit			kg	210
Fan	Air flow rate	Cooling	Nom.	m^3/min	162
	External static pressure	Max.		Pa	78
	Discharge direction				Vertical
	Type				Propeller fan
Sound power level	Cooling	Nom.		dBA	77
Sound pressure level	Cooling	Nom.		dBA	56
Operation range	Cooling	Min.~Max.		°CDB	-5,0~43,0
	Heating	Min.~Max.		°CWB	-20~15,5
Refrigerant	Type				R-410A
	GWP				2.087,5
	Charge			TCO_2eq	20,2
				kg	9,7
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series
(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series
(3) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | REMQ5 unit cannot be used as standalone unit. | Technical cooling setting, refer to the installation manual for more information

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-T8/9 heat recovery units

BS1Q-A

Indoor unit				BS	1Q10A	1Q16A	1Q25A
Power input	Cooling	Nom.		kW	0,005		
	Heating	Nom.		kW	0,005		
Maximum number of connectable indoor units					6	8	
Maximum capacity index of connectable indoor units					15 < x ≤ 100	100<x≤160	160<x≤250
Dimensions	Unit	HeightxWidthxDepth		mm	207x388x326		
Weight	Unit			kg	12		15
Casing	Material				Galvanised steel plate		
Piping connections	Outdoor unit	Liquid	OD	mm	9,5		
		Gas	OD	mm	15,9		22,2
		Discharge gas	OD	mm	12,7		19,1
	Indoor unit	Liquid	OD	mm	9,5		
		Gas	OD	mm	15,9		22,2
Sound absorbing thermal insulation					Foamed polyurethane Flame-resistant needle felt		
Power supply	Phase				1~		
	Frequency			Hz	50		
	Voltage			V	220-240		
	Maximum fuse amps (MFA)			A	15		

Multi branch selector for VRV IV heat recovery

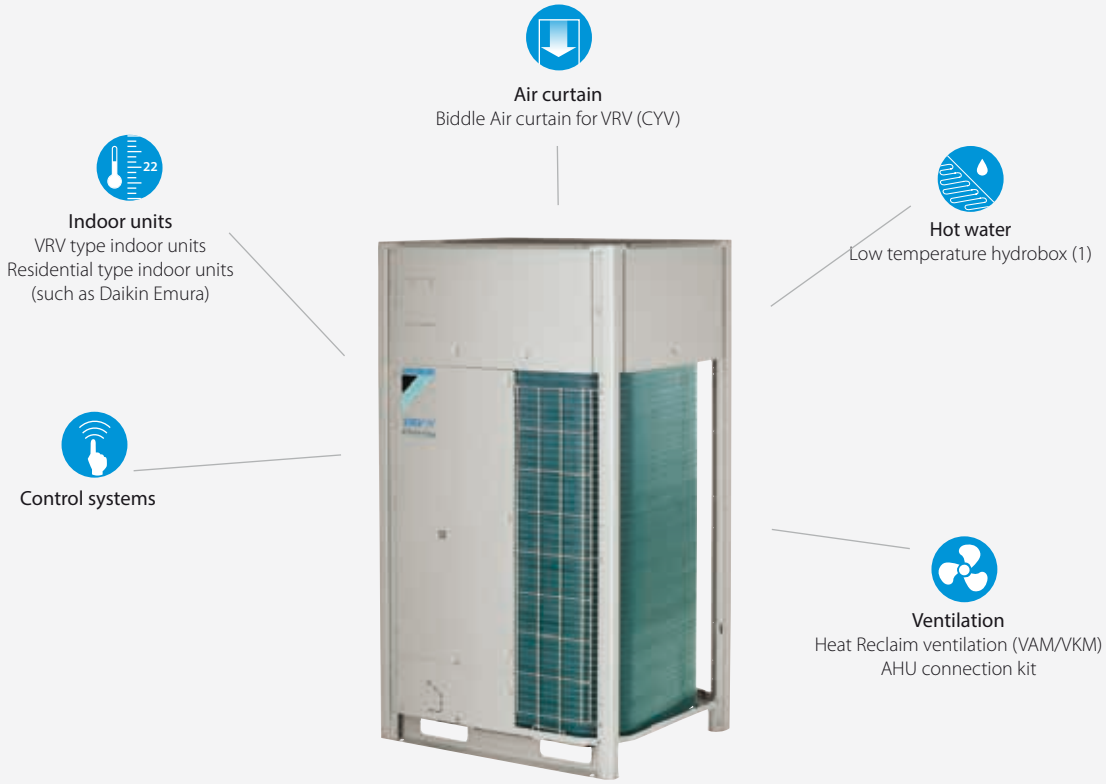
- Unique range of single and multi BS boxes for flexible and fast design
- Major reduction in installation time thanks to wide range, compact size and light weight multi BS boxes
- Up to 70% smaller and 66% lighter than previous series
- Faster installation thanks to a reduced number of brazing points and wiring
- All indoor units connectable to one BS box
- Less inspection ports needed compared to installing single BS boxes
- Up to 16kW capacity available per port
- Connect up to 250 class unit (28kW) by combining 2 ports
- No limit on unused ports allowing phased installation
- **UNIQUE** Faster installation thanks to open port connection
- **UNIQUE** Refrigerant filters for high reliability
- Allows multi tenant applications
- Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T8/9 heat recovery units

BS6,8Q14AV1

Indoor unit				BS	4Q14AV1	6Q14AV1	8Q14AV1	10Q14AV1	12Q14AV1	16Q14AV1
Power input	Cooling	Nom.		kW	0,043	0,064	0,086	0,107	0,129	0,172
	Heating	Nom.		kW	0,043	0,064	0,086	0,107	0,129	0,172
Maximum number of connectable indoor units					20	30	40	50	60	64
Maximum number of connectable indoor units per branch					5					
Number of branches					4	6	8	10	12	16
Maximum capacity index of connectable indoor units					400	600	750			
Maximum capacity index of connectable indoor units per branch					140					
Dimensions	Unit	HeightxWidthxDepth		mm	298x370x430	298x580x430		298x820x430		298x1.060x430
Weight	Unit			kg	17	24	26	35	38	50
Casing	Material				Galvanised steel plate					
Piping connections	Outdoor unit	Liquid	OD	mm	9,5	12,7	12,7 / 15,9	15,9	15,9 / 19,1	19,1
		Gas	OD	mm	22,2 / 19,1	28,6 / 22,2	28,6	28,6 / 34,9		34,9
		Discharge gas	OD	mm	19,1 / 15,9	19,1 / 22,2	19,1 / 22,2 / 28,6	28,6		
	Indoor unit	Liquid	OD	mm	9,5 / 6,4					
		Gas	OD	mm	15,9 / 12,7					
	Drain				VP20 (I.D. 20/O.D. 26)					
Sound absorbing thermal insulation					Urethane foam, polyethylene foam					
Power supply	Phase				1~					
	Frequency			Hz	50					
	Voltage			V	220-440					
	Maximum fuse amps (MFA)			A	15					

VRV IV heat pump

Daikin's optimum solution with top comfort



Variable Refrigerant Temperature

VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

Continuous heating

The new standard in heating comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

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

(1) Special order unit needed to connect LT hydroboxes with multi outdoor unit systems

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

Wide range of indoor units

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

Mix of RA units & VRV units

Connectable indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXG-LW/LS		●	●	●		●		
Wall mounted unit	CTXS-K	●			●				
Wall mounted unit	FTXS-K		●	●	●	●	●		
Wall mounted unit	FTXS-G							●	●
Nexura - Floor standing unit	FVXG-K			●	●		●		
Floor standing unit	FVXS-F			●	●		●		
Flexi type unit	FLXS-B(9)			●	●		●	●	

BPMKS box needed to connect RA indoors to VRV IV (RYYQ-T and RXYQ-T(9))

VRV IV

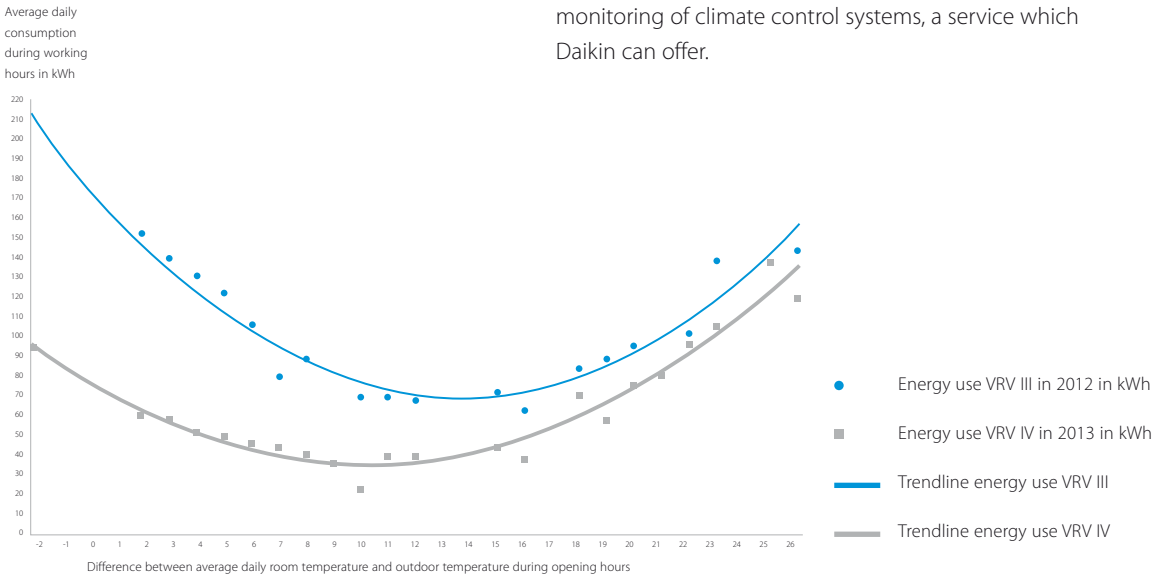
proven in practice: 40% more efficient

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.

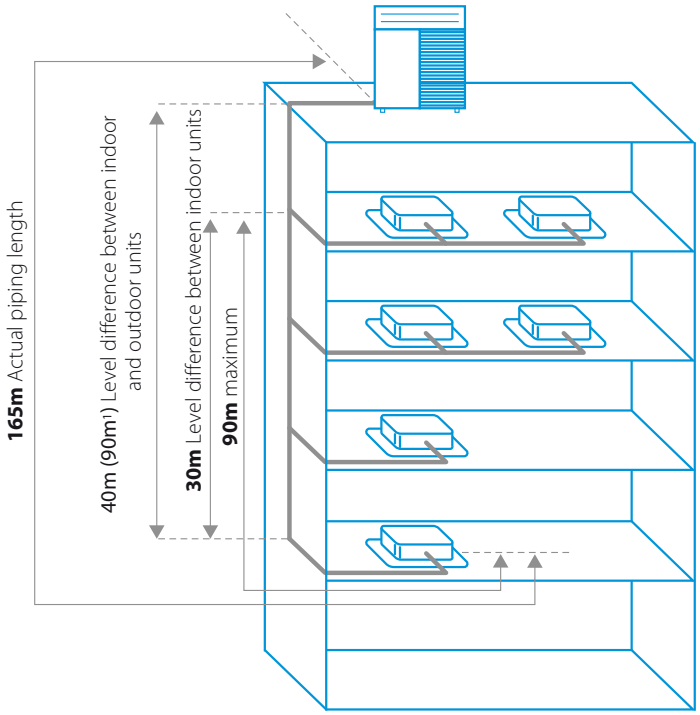
Free combination of outdoor units

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

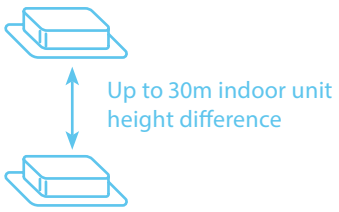
Flexible piping design

Total piping length	1000m
Longest length actual (Equivalent)	165m (190m)
Longest length after first branch	90m[1]
Level difference between indoor and outdoor units	90m[1]
Level difference between indoor units	30m

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



VRV IV heat pump

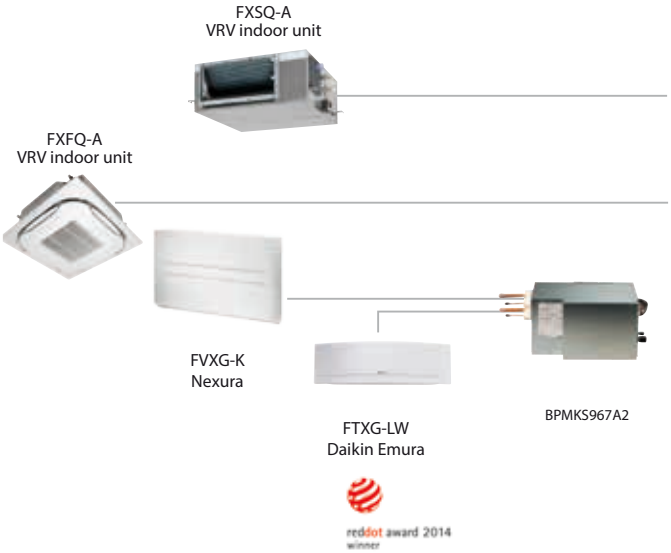


Daikin's optimum solution with top comfort

- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Nexura, ...)
- 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
- 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

Outdoor unit				RYYQ/RXYQ	8T8	10T	12T	14T	16T	18T	20T
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Nom.	35°CDB		kW	22,4 (1)	28,0 (1)	33,5 (1)	40,0 (1)	45,0 (1)	50,4 (1)	56,0 (1)
Heating capacity	Nom.	6°CWB		kW	22,4 (2)	28,0 (2)	33,5 (2)	40,0 (2)	45,0 (2)	50,4 (2)	56,0 (2)
	Max.	6°CWB		kW	25,0 (2)	31,5 (2)	37,5 (2)	45,0 (2)	50,0 (2)	56,5 (2)	63,0 (2)
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	5,21 (1)	7,29 (1)	8,98 (1)	11,0 (1)	13,0 (1)	15,0 (1)	18,5 (1)
	Heating	Nom.	6°CWB	kW	4,75 (2)	6,29 (2)	7,77 (2)	9,52 (2)	11,1 (2)	12,6 (2)	14,5 (2)
		Max.	6°CWB	kW	5,51 (2)	7,38 (2)	9,10 (2)	11,2 (2)	12,8 (2)	14,6 (2)	17,0 (2)
EER at nom. capacity	35°CDB			kW/kW	4,30 (1)	3,84 (1)	3,73 (1)	3,64 (1)	3,46 (1)	3,36 (1)	3,03 (1)
COP at nom. capacity	6°CWB			kW/kW	4,72 (2)	4,45 (2)	4,31 (2)	4,20 (2)	4,05 (2)	4,00	3,86
COP at max. capacity	6°CWB			kW/kW	4,54 (2)	4,27 (2)	4,12 (2)	4,02 (2)	3,91 (2)	3,87	3,71
ESEER - Automatic					7,53	7,20	6,96	6,83	6,50	6,38	5,67
Maximum number of connectable indoor units					64 (4)						
Indoor index connection	Min.				100	125	150	175	200	225	250
	Nom.				200	250	300	350	400	450	500
	Max.				260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth		mm	1.685x930x765			1.685x1.240x765			
Weight	Unit			kg	243	252		356		391	
Fan	Air flow rate	Cooling	Nom.	m^3/min	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dBA	58		61		64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5~43						
	Heating	Min.~Max.		°CWB	-20~15,5						
Refrigerant	Type				R-410A						
	GWP				2.087,5						
	Charge			TCO_2eq	12,3	12,5	13,2	21,5	21,7	24,4	24,6
				kg	5,9	6	6,3	10,3	10,4	11,7	11,8
Piping connections	Liquid	OD		mm	9,52		12,7			15,9	
	Gas	OD		mm	19,1	22,2	28,6				
	Total piping length	System	Actual	m	1.000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32		40		50

Outdoor system				RYYQ/RXYQ	22T	24T8	26T	28T	30T	32T	34T	36T	38T8	40T
System	Outdoor unit module 1				10T	8T8	12T			16T			8T8	10T
	Outdoor unit module 2				12T	16T	14T	16T	18T	16T	18T	20T	10T	12T
	Outdoor unit module 3				-								20T	18T
Capacity range				HP	22	24	26	28	30	32	34	36	38	40
Cooling capacity	Nom.	35°CDB		kW	61,5 (1)	67,4 (1)	73,5 (1)	78,5 (1)	83,9 (1)	90,0 (1)	95,4 (1)	101,0 (1)	106,3 (1)	111,9 (1)
Heating capacity	Nom.	6°CWB		kW	61,5 (2)	67,4 (2)	73,5 (2)	78,5 (2)	83,9 (2)	90,0 (2)	95,4 (2)	101,0 (2)	106,3 (2)	111,9 (2)
	Max.	6°CWB		kW	69,0	75,0	82,5	87,5	94,0	100,0	106,5	113,0	119,0	125,5
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	16,27 (1)	18,2 (1)	20,0 (1)	22,0 (1)	24,0 (1)	26,0 (1)	28,0 (1)	31,5 (1)	29,2 (1)	31,3 (1)
	Heating	Nom.	6°CWB	kW	14,06 (2)	15,85 (2)	17,29 (2)	18,87 (2)	20,4 (2)	22,2 (2)	23,7 (2)	25,6 (2)	25,1 (2)	26,7 (2)
		Max.	6°CWB	kW	16,48	18,31	20,30	21,90	23,7	25,6	27,4	29,8	29,2	31,1
EER at nom. capacity	35°CDB			kW/kW	3,77 (1)	3,70 (1)	3,68 (1)	3,57 (1)	3,5 (1)	3,46 (1)	3,4 (1)	3,21 (1)	3,6 (1)	
COP at nom. capacity	6°CWB			kW/kW	4,37	4,25		4,16	4,1	4,05	4,0	3,95	4,2	
COP at max. capacity	6°CWB			kW/kW	4,19	4,10	4,06	4,00		3,91	3,9	3,79	4,1	4,0
ESEER - Automatic					7,07	6,81	6,89	6,69	6,60	6,50	6,44	6,02	6,36	6,74
Maximum number of connectable indoor units					64 (3)									
Indoor index connection	Min.				275	300	325	350	375	400	425	450	475	500
	Nom.				550	600	650	700	750	800	850	900	950	1.000
	Max.				715	780	845	910	975	1.040	1.105	1.170	1.235	1.300
Piping connections	Liquid	OD		mm	15,9		19,1							
	Gas	OD		mm	28,6	34,9						41,3		
	Total piping length	System	Actual	m	1.000									
Current - 50Hz	Maximum fuse amps (MFA)			A	63				80				100	



RYYQ-T(8)/RXYQ-T(8)

Outdoor system				**RYYQ**	**42T**	**44T**	**46T**	**48T**	**50T**	**52T**	**54T**
System	Outdoor unit module 1				10T	12T	14T		16T		18T
	Outdoor unit module 2						16T			18T	
	Outdoor unit module 3					16T			18T		
Capacity range				HP	42	44	46	48	50	52	54
Cooling capacity	Nom.	35°CDB		kW	118,0 (1)	123,5 (1)	130,0 (1)	135,0 (1)	140,0 (1)	145,8 (1)	151,2 (1)
Heating capacity	Nom.	6°CWB		kW	118,0 (2)	123,5 (2)	130,0 (2)	135,0 (2)	140,0 (2)	145,8 (2)	151,2 (2)
	Max.	6°CWB		kW	131,5	137,5	145,0	150,0	156,0	163,0	169,5
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	33,3 (1)	35,0 (1)	37,0 (1)	39,0 (1)	40,7 (1)	43,0 (1)	45,0 (1)
	Heating	Nom.	6°CWB	kW	28,49 (2)	29,97 (2)	31,72 (2)	33,3 (2)	34,6 (2)	36,3 (2)	37,8 (2)
		Max.	6°CWB	kW	32,98	34,70	36,8	38,4	40,0	42,0	43,8
EER at nom. capacity	35°CDB			kW/kW	3,54 (1)		3,51 (1)	3,46 (1)	3,44 (1)	3,4 (1)	3,40 (1)
COP at nom. capacity	6°CWB			kW/kW	4,14	4,12	4,10	4,05		4,0	
COP at max. capacity	6°CWB			kW/kW	3,99	3,96	3,94	3,91		3,90	
ESEER - Automatic					6,65	6,62	6,60	6,50	6,46	6,42	6,38
Maximum number of connectable indoor units					64 (3)						
Indoor index connection	Min.				525	550	575	600	625	650	675
	Nom.				1.050	1.100	1.150	1.200	1.250	1.300	1.350
	Max.				1.365	1.430	1.495	1.560	1.625	1.690	1.755
Piping connections	Liquid	OD		mm	19,1						
	Gas	OD		mm	41,3						
	Total piping length	System	Actual	m	1.000						
Current - 50Hz	Maximum fuse amps (MFA)			A	100			125			

Outdoor unit module				**RYMQ**	**10T**	**12T**	**14T**	**16T**	**18T**	**20T**	**8T**
Dimensions	Unit	Height/Width/Depth		mm	1.685/930/765		1.685/1.240/765				1.685/930/765
Weight	Unit			kg	195		309		319		188
Fan	Air flow rate	Cooling	Nom.	m³/min	175	185	223	260	251	261	162
	External static pressure	Max.		Pa	78						
	Discharge direction				Vertical						
	Type				Propeller fan						
Sound power level	Cooling	Nom.		dBA	79	81		86		88	78
Sound pressure level	Cooling	Nom.		dBA	58	61		64	65	66	58
Operation range	Cooling	Min.~Max.		°CDB	-5~43						
	Heating	Min.~Max.		°CWB	-20~15,5						
Refrigerant	Type				R-410A						
	GWP				2.087,5						
	Charge			TCO_2eq	12,5	13,2	21,5	21,7	24,4	24,6	12,3
				kg	6	6,3	10,3	10,4	11,7	11,8	5,9
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	25	32		40		50	20

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series (3) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality | The AUTOMATIC SEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation)

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
(VAM/VKM) AHU
connection kit

RXYSCQ4, 5TV1 | RXYSQ4, 5, 6TV1/TY1 | RXYSQ8, 10, 12TY1

Variable Refrigerant Temperature

VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

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

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 low height.

Ideal to install below a window on a Balcony

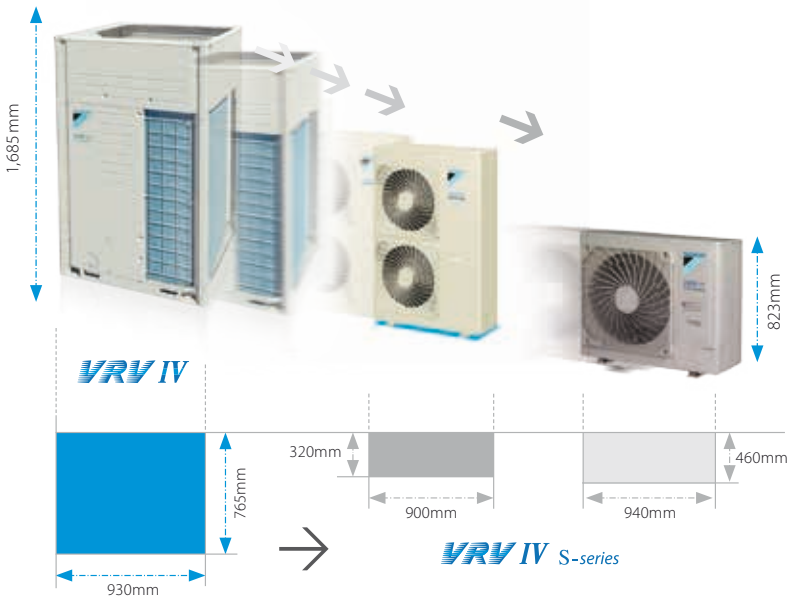
› Daikin VRV IV S-series compact can be installed discretely on a balcony thanks to it's compact dimensions, offering you air conditioning while being almost unnoticeable.

Unnoticeable for parapet installation

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

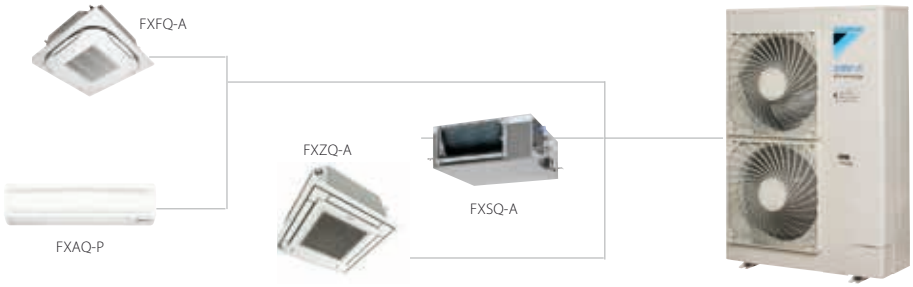
Space saving design

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

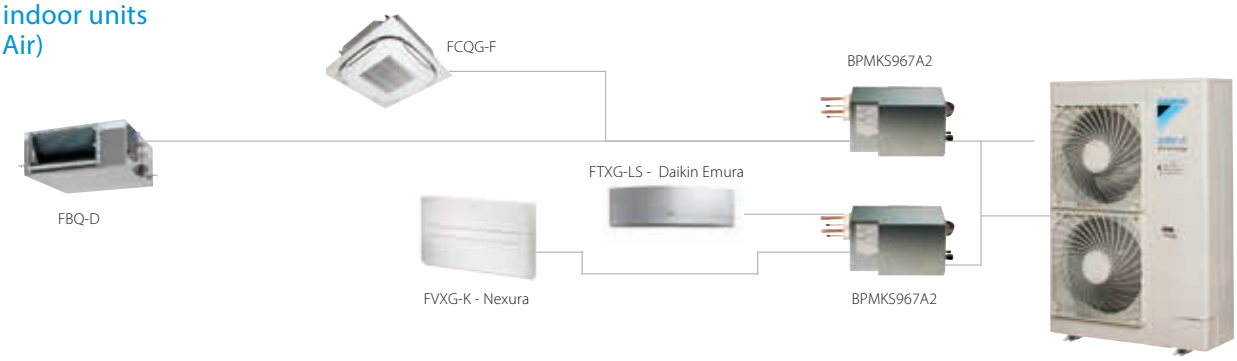


Wide range of indoor units

Connect VRV units…



… or stylish indoor units (RA and Sky Air)

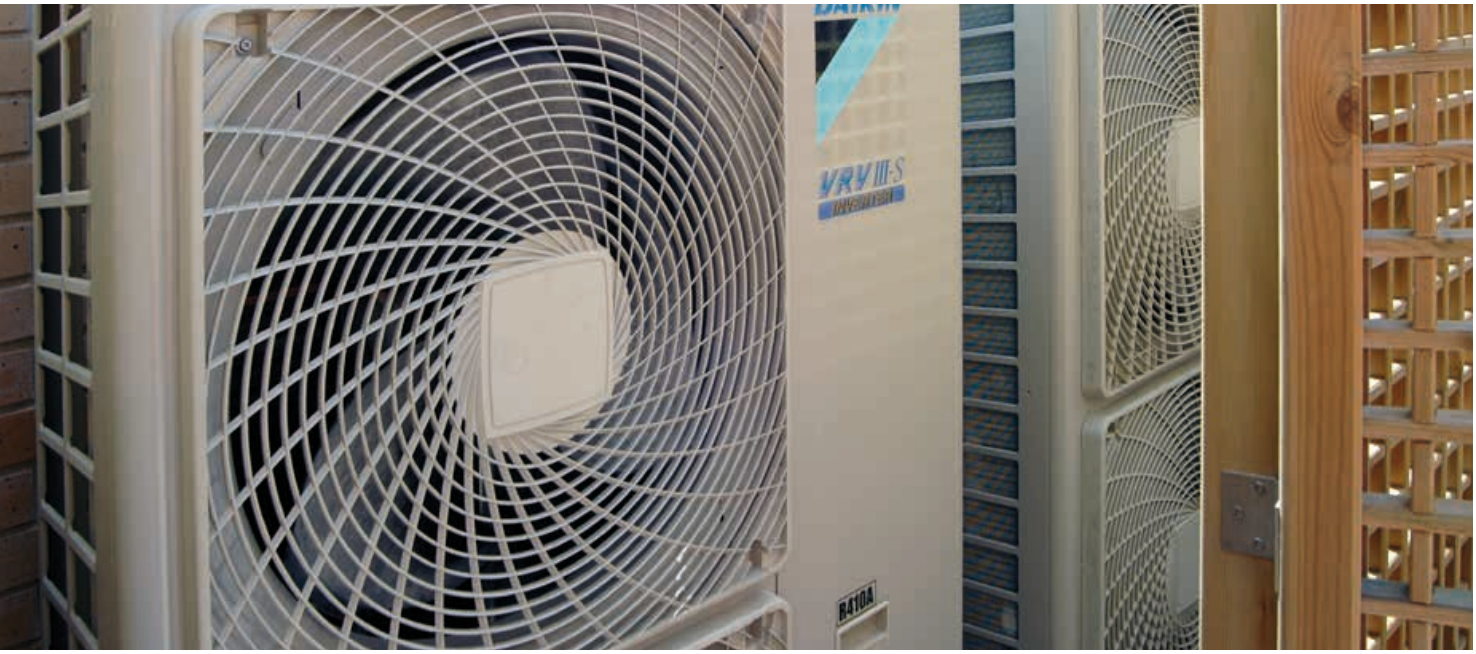


Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCQG-F				●		●	●	●
Fully flat cassette	FFQ-C			●	●		●	●	
Slim concealed ceiling unit	FDXM-F3			●	●		●	●	
Concealed ceiling unit with inverter driven fan	FBQ-D			●	●		●	●	
Daikin Emura - Wall mounted unit	FTXG-LW/LS		●	●	●		●		
Wall mounted unit	CTXS-K	●			●				
Wall mounted unit	FTXS-K		●	●	●	●	●		
Wall mounted unit	FTXS-G							●	●
Ceiling suspended unit	FHQ-CB				●		●	●	
Nexura - Floor standing unit	FVXG-K			●	●		●		
Floor standing unit	FVXS-F			●	●		●		
Concealed floorstanding unit	FNQ-A			●	●		●	●	
Flexi type unit	FLXS-B(9)			●	●		●	●	

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

* VRV indoor units and stylish indoor units cannot be combined.
* To connect stylish indoor units a BPMKS unit is needed

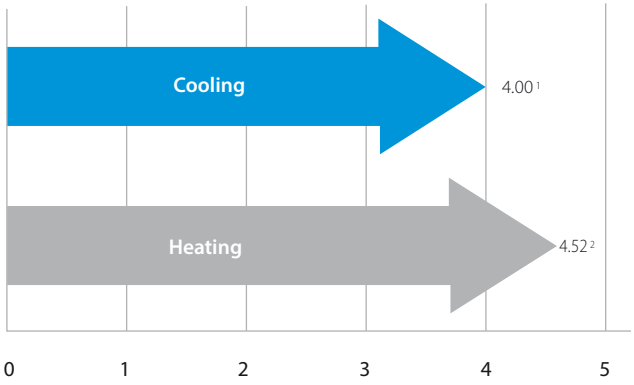


High COP values

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

[1] Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.

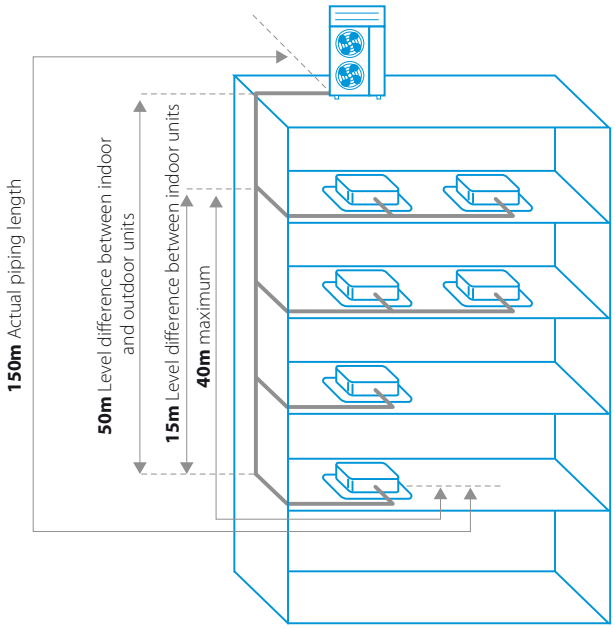
[2] Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



Flexible piping design

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

[1] Outdoor unit in lowest position

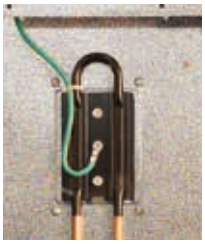


VRV IV S-series

technologies

Super aero grille

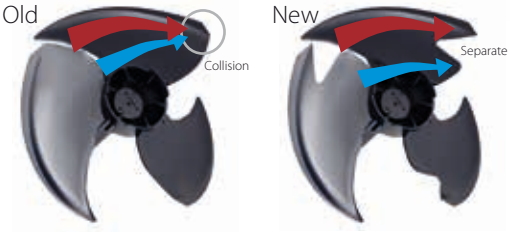
The spiral shaped ribs are aligned with the direction of discharge flow in order to minimise turbulence and reduce noise.



Refrigerant-cooled PCB

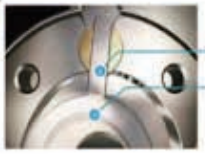
› Reliable cooling because it is not influenced by ambient air temperature
› Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%

Improved fan blades



Air streams collide and generate loss

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

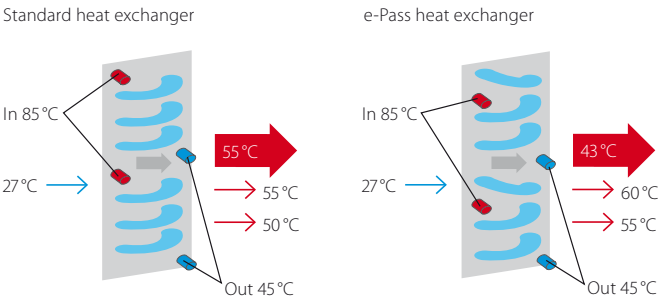


Compressor

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

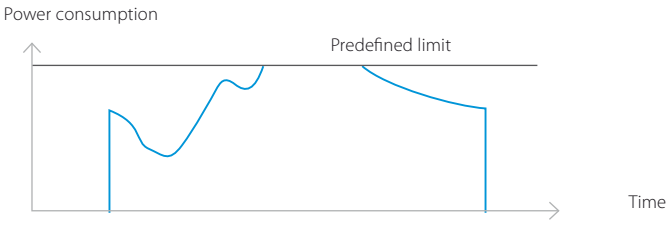
E-Pass heat exchanger

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



I-demand function

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



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, Nexura ...
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors, refrigerant cooled PCB, new DC fan motor
- Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- Contains all standard VRV features

RXYSCQ-TV1

Outdoor unit				RXYSCQ	4TV1	5TV1
Capacity range				HP	4	5
Cooling capacity	Nom.	35°CDB		kW	12,1	14,0
Heating capacity	Nom.	6°CWB		kW	12,1	14,0
	Max.	6°CWB		kW	14,2	16,0
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	3,43	4,26
	Heating	Nom.	6°CWB	kW	3,18	3,19
		Max.	6°CWB	kW	4,14	5,00
COP at nom. capacity	6°CWB			kW/kW	3,81	3,58
COP at max. capacity	6°CWB			kW/kW	3,43	3,20
ESEER - Automatic					6,93	6,57
Maximum number of connectable indoor units					64	
Indoor index connection	Min.				50	62,5
	Nom.				-	
	Max.				130	162,5
Dimensions	Unit	HeightxWidthxDepth		mm	823x940x460	
Weight	Unit			kg	94	
Fan	Air flow rate	Cooling	Nom.	m^3/min	91	
Sound power level	Cooling	Nom.		dBA	68	69
Sound pressure level	Cooling	Nom.		dBA	51	52
Operation range	Cooling	Min.~Max.		°CDB	-5~46	
	Heating	Min.~Max.		°CWB	-20~15,5	
Refrigerant	Type				R-410A	
	GWP				2.087,5	
	Charge			TCO_2eq	7,7	
				kg	3,7	
Piping connections	Liquid	OD		mm	9,52	
	Gas	OD		mm	15,9	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	32	

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%).

VRV IV S-series heat pump

Space saving solution without compromising on efficiency

- Space saving trunk design for flexible installation
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- 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

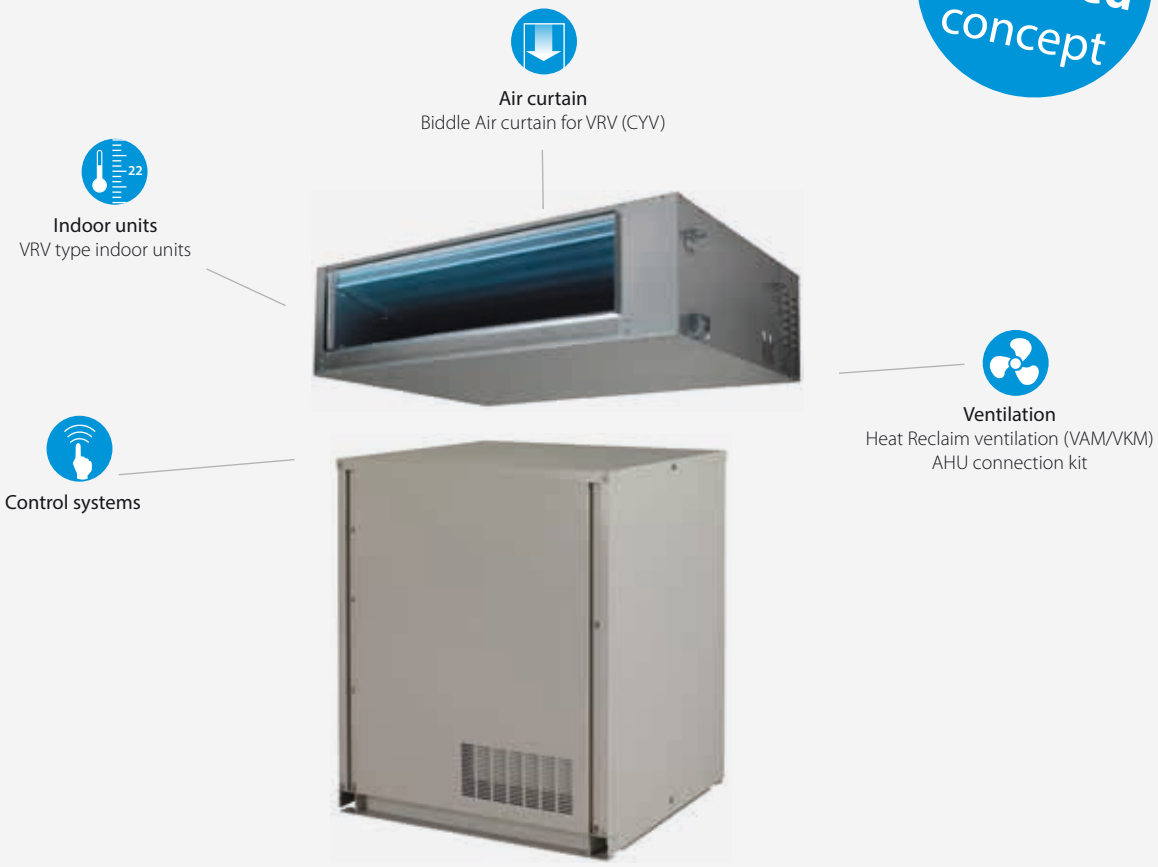
RXYSQ4-6TV1_TY1

Outdoor unit				RXYSQ-TV1/RXYSQ-TY1	4TV1	5TV1	6TV1	4TY1	5TY1	6TY1	8TY1	10TY1	12TY1
Capacity range				HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Nom.	35°CDB		kW	12,1	14,0	15,5	12,1	14,0	15,5	-		
		Eurovent		kW	-						22,4	28,0	33,5
Heating capacity	Nom.	6°CWB		kW	12,1	14,0	15,5	12,1	14,0	15,5	22,4	28,0	33,5
	Max.	6°CWB		kW	14,2	16,0	18,0	14,2	16,0	18,0	25,0	31,5	37,5
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	3,03	3,73	4,56	3,03	3,73	4,56	-		
			Eurovent	kW	-						6,12	8,24	10,2
	Heating	Nom.	6°CWB	kW	2,68	3,27	3,97	2,68	3,27	3,97	5,20	6,60	8,19
		Max.	6°CWB	kW	3,43	4,09	5,25	3,43	4,09	5,25	6,22	8,33	10,2
EER at nom. capacity	Eurovent			kW/kW	-						3,66	3,40	3,30
COP at nom. capacity	6°CWB			kW/kW	4,52	4,28	3,90	4,52	4,28	3,90	4,31	4,24	4,09
COP at max. capacity	6°CWB			kW/kW	4,14	3,91	3,43	4,14	3,91	3,43	4,02	3,78	3,66
ESEER - Automatic					7,89	7,49	6,73	7,89	7,49	6,73	6,72	6,41	6,18
Maximum number of connectable indoor units					64 (1)								
Indoor index connection	Min.				50	62,5	70	50	62,5	70	100	125	150
	Nom.				-								
	Max.				130	162,5	182	130	162,5	182	260	325	390
Dimensions	Unit	HeightxWidthxDepth		mm	1.345x900x320						1.430x940x320	1.615x940x460	
Weight	Unit			kg	104						144	175	180
Fan	Air flow rate	Cooling	Nom.	m^3/min	106						140	182	
Sound power level	Cooling	Nom.		dBA	68	69	70	68	69	70	73	74	76
Sound pressure level	Cooling	Nom.		dBA	50	51		50	51		55		57
Operation range	Cooling	Min.~Max.		°CDB	-5~46						-5~52		
	Heating	Min.~Max.		°CWB	-20~15,5								
Refrigerant	Type				R-410A								
	GWP				2.087,5								
	Charge			TCO_2eq	7,5						9,4	14,6	16,7
				kg	3,6						5,5	7	8
Piping connections	Liquid	OD		mm	9,52								12,7
	Gas	OD		mm	15,9		19,1	15,9		19,1		22,2	25,4
	Total piping length	System	Actual	m	300			-					
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/220-240			3N~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA)			A	32			16			25		32

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%).

VRV IV i-series heat pump
for indoor installation

unique **patented** concept



Variable Refrigerant Temperature

VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

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

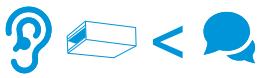
For detailed explanation of these functions refer to vrv iv technologies tab

Invisible

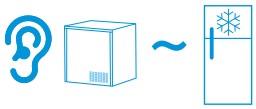
› Consider a wider range of properties because outdoor installation is not a factor
› Open for business sooner because getting building permits is simplified
› Seamless integration into the surroundings as only the grille is visible
› No need for a roof installation or back alley installation

Quiet

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

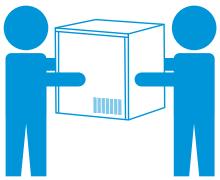


Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

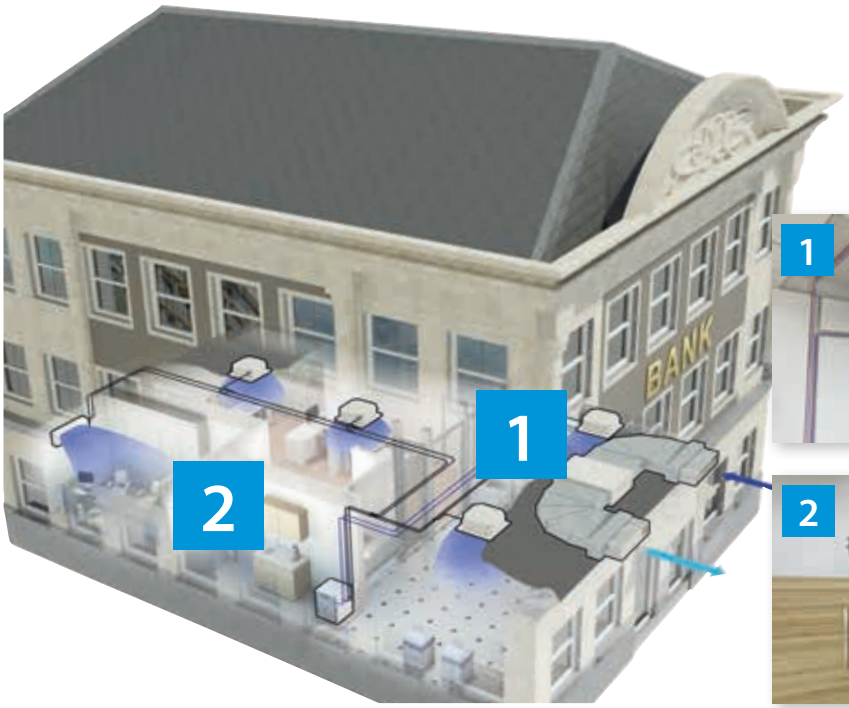
Lightweight parts can be installed by two people



Unique split outdoor unit for indoor installation

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

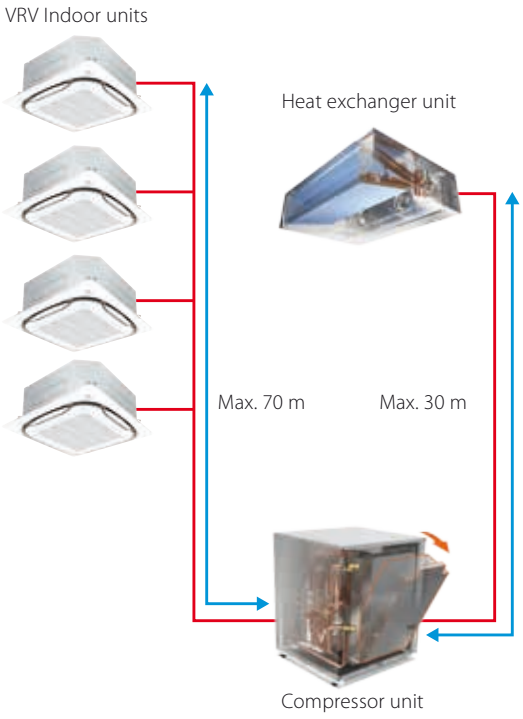
Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



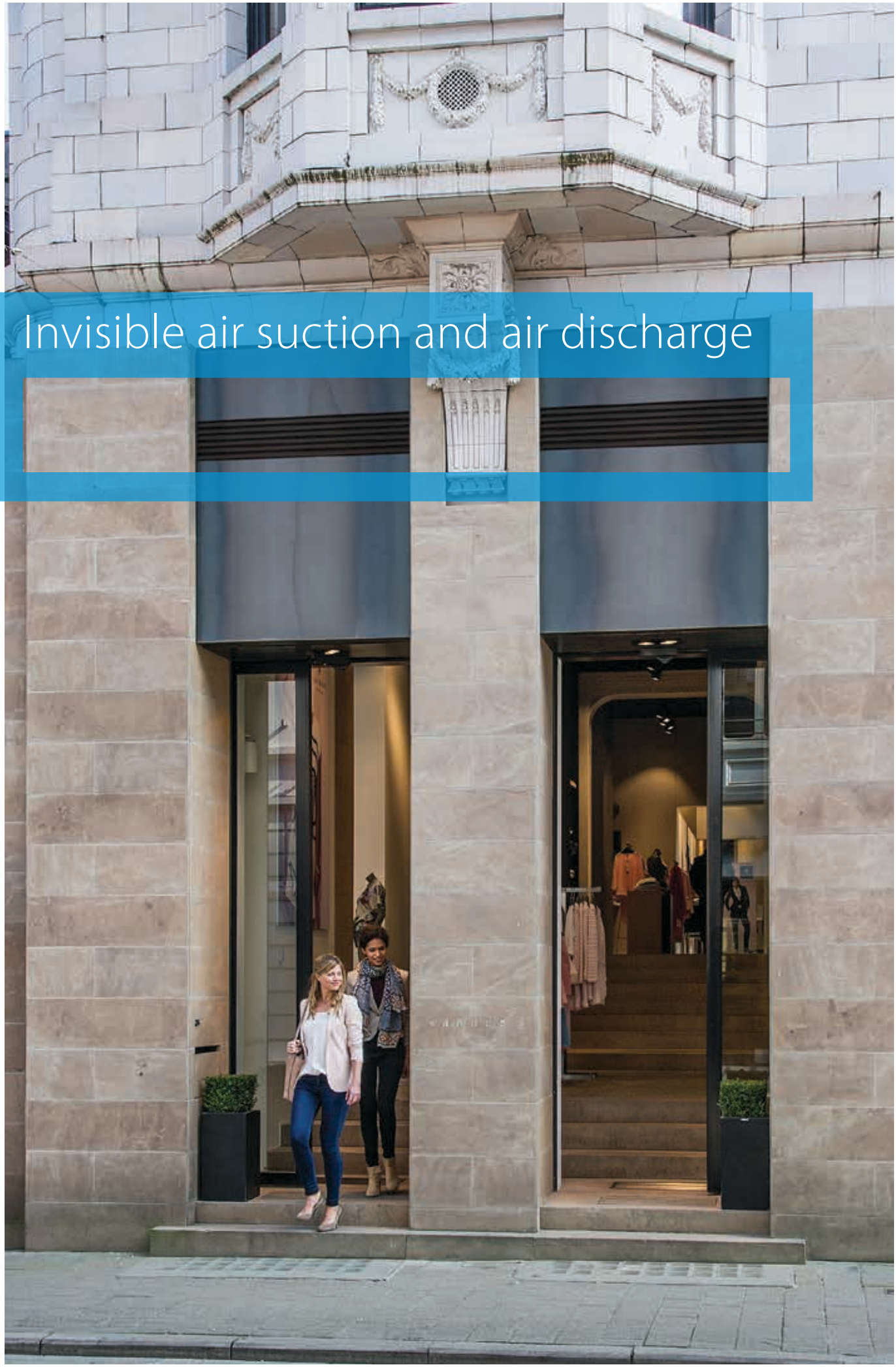
1. The heat exchanger can be installed in a false ceiling space.

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

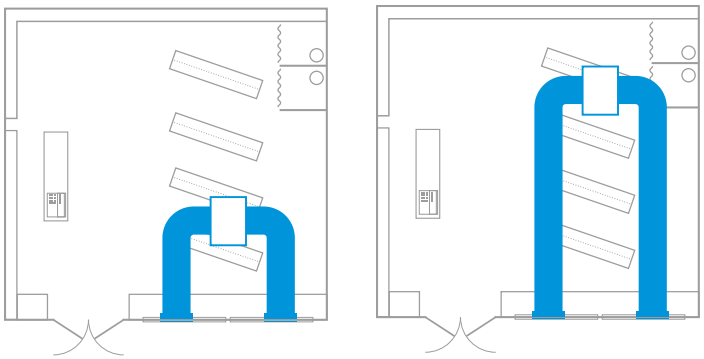
High flexibilty

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

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

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

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



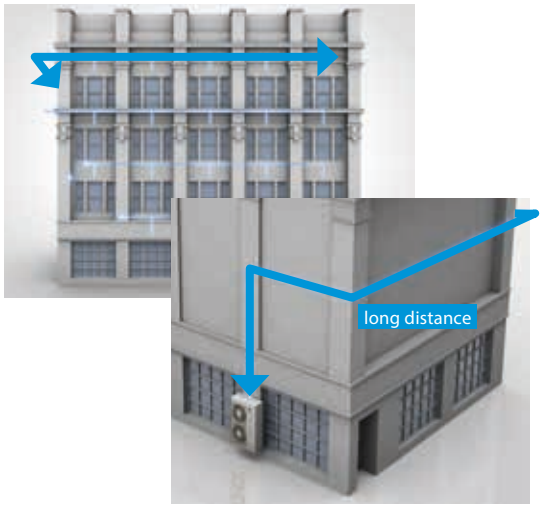
Flexible installation thanks to inverter fans

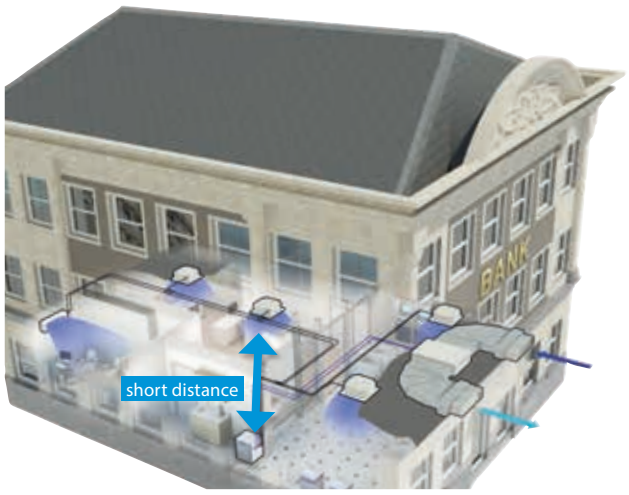
Example 2

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

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

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



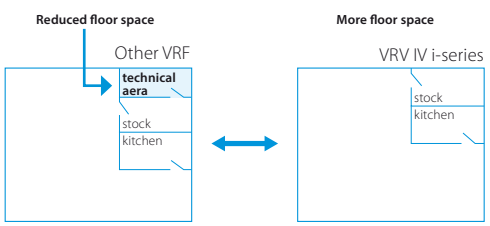


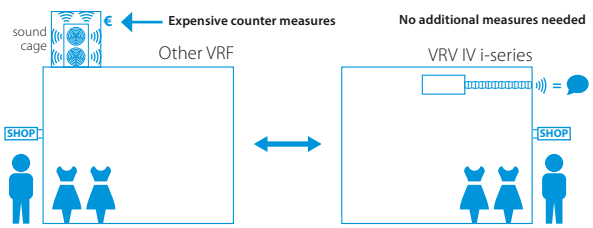
Example 3

No need for bulky and expensive sound countermeasures

To comply with city regulation countermeasures are needed for standard units
› Expensive sound cages might be needed to reduce sound (standard outdoor unit sound = 50~60 dBA)
› Inside installation using expensive floor space

With VRV IV i-series you easily comply with city regulation without additional measures
› Operation sound 47 dBA for 5HP model (flexible to install in corridor, shop area, …) or lower with attenuator
› No floor space is used as units can be installed in false ceiling, against the wall, …





Patented V-shape heat exchanger

for best surface to volume ratio

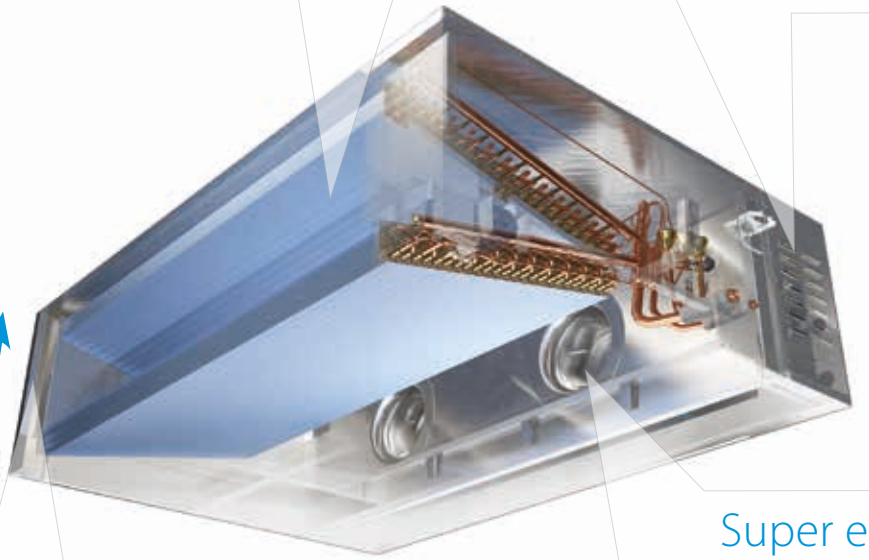
8 patents

Optimised air flow and temperature distribution

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

Patented perforated and insulated partition plate

Reduces conductivity and prevents cold bridges



Only 400mm high

Fits easily in any false ceiling

Standard delivered filter

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

Super efficient centrifugal fans

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

Compressor unit with rotating switchbox

Flexible and easy to install

Flexibility by back and top refrigerant connection possibility

Rotating switchbox

› For easy access to all compressor parts

Only 77 kg (5HP)

Tube-in-tube subcool heat exchanger

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

No drain connection needed

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

Non welded bottom casing

› Avoids any corrosion risk

Small footprint

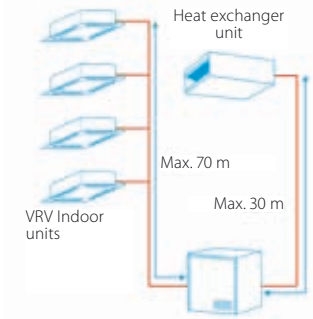
› Maximizes useable floor space (600 x 554 mm for 5HP)
› Can easily be mounted in a storage room, back office, …

VRV IV heat pump for indoor installation

The invisible VRV

› Unique VRV heat pump for indoor installation

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



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

SB.RKXYQ-T

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

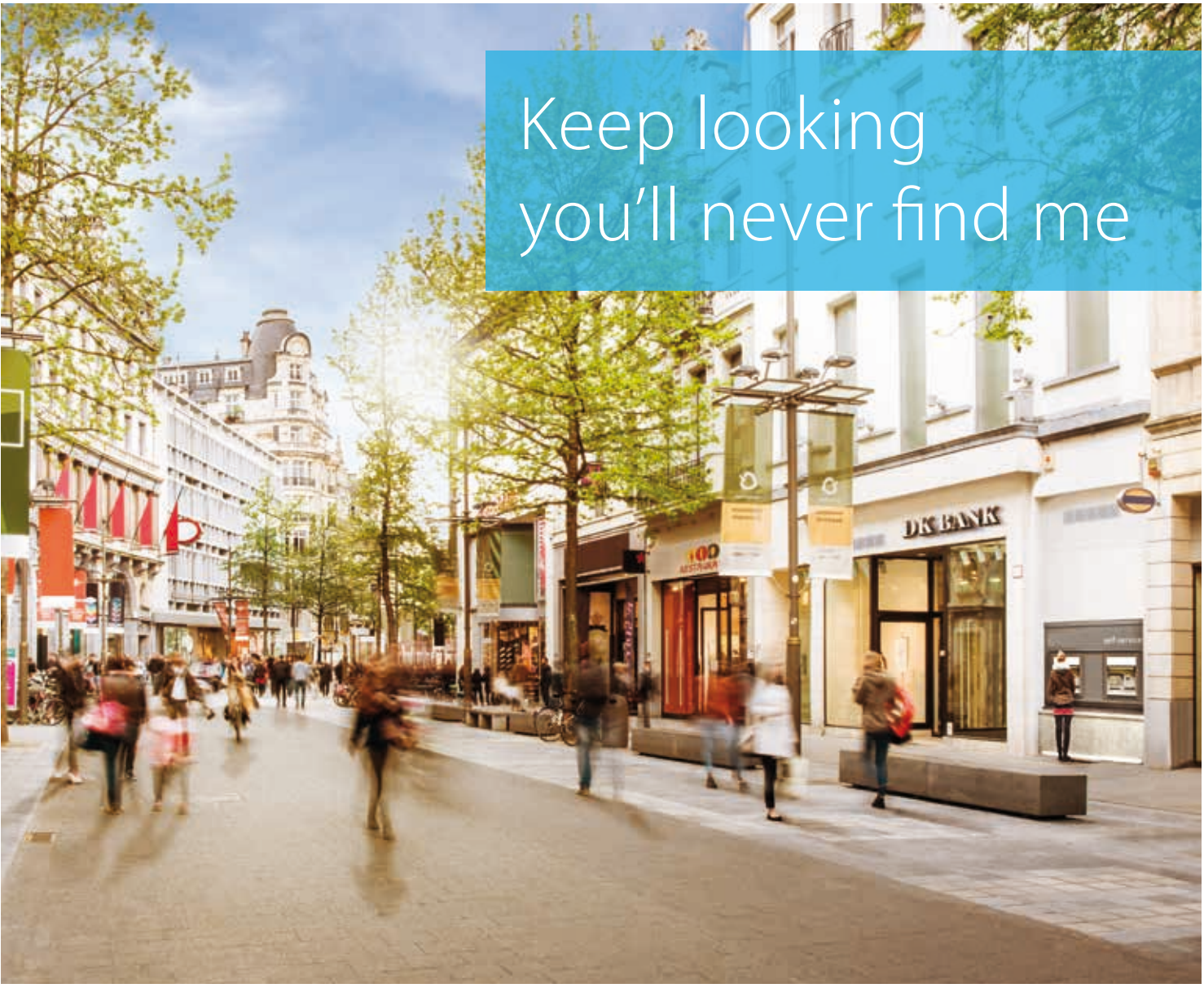
NEW

Outdoor system				SB.RKXYQ	5T	8T
System	Heat exchanger unit				RDXYQ5T	RDXYQ8T
	Compressor unit				RKXYQ5T	RKXYQ8T
Capacity range				HP	5	8
Cooling capacity	Nom.	35°CDB		kW	14,0	21,4
Heating capacity	Nom.	6°CWB		kW	14,0	21,4
	Max.	6°CWB		kW	16,0	25,0
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	4,38	7,64
	Heating	Nom.	6°CWB	kW	3,68	5,94
		Max.	6°CWB	kW	4,71	7,60
EER at nom. capacity	35°CDB			kW/kW	3,20	2,80
COP at nom. capacity	6°CWB			kW/kW	3,80	3,60
COP at max. capacity	6°CWB			kW/kW	3,40	3,29
Maximum number of connectable indoor units					10 (1)	17 (1)
Indoor index connection	Min.				63	100
	Nom.				125	200
	Max.				163	260
Fan	External static pressure	Max.		Pa	150	
		Nom.		Pa	60	
Piping connections	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	OD	mm	12,7	
		Gas	OD	mm	19,1	22,2
	Between Compressor module (CM) and indoor units (IU)	Liquid	OD	mm	9,52	
		Gas	OD	mm	15,9	19,1
	Total piping length	System	Actual	m	140	300

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%).

Outdoor unit module					compressor module		heat exchanger module	
					RKXYQ8T	RKXYQ5T	RDXYQ8T	RDXYQ5T
Dimensions	Unit	Height/Width/Depth		mm	701/600/554	701/760/554	397/1.456/1.044	397/1.456/1.044
Weight	Unit			kg	77	105	97	103
Fan	Air flow rate	Cooling	Nom.	m^3/min	-	-	55	100
Sound power level	Cooling	Nom.		dBA	60	64	76	81
Sound pressure level	Cooling	Nom.		dBA	47	48	46	54
Refrigerant	Type				R-410A			
	GWP				2.087,5	2.087,5	-	-
	Charge			TCO_2eq	4,20	8,35	-	-
				kg	2,00	4,00	-	-
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415	3N~/50/380-415	1N~/50/220-240	1N~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)			A	16	20	10	10

DAIKIN

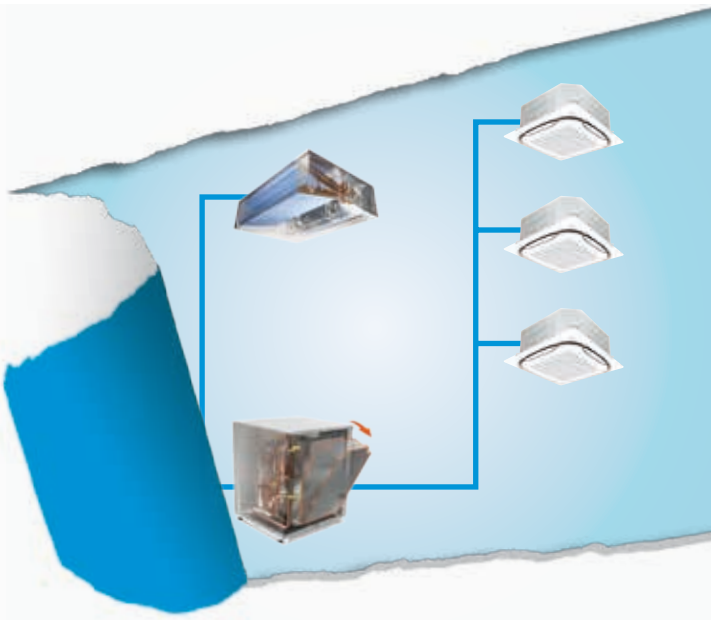


Keep looking you'll never find me

The city secret

Unseen in the best places

Our VRV IV i-series offers you a truly unique solution for installations where you need a totally invisible system. It is compact and easy to hide indoors, with only the grilles being visible outside. Split into two lightweight components, the compressor can be installed at floor level in a storage room or technical area, and the heat exchanger unit, which is only 400 mm high, can be installed in a standard false ceiling. The VRV IV i-series has a patented V-shaped heat exchanger which boosts efficiency. So your customer can now enjoy all the power of a fully invisible VRV system.



VRV IV i-series

Variable Refrigerant Temperature

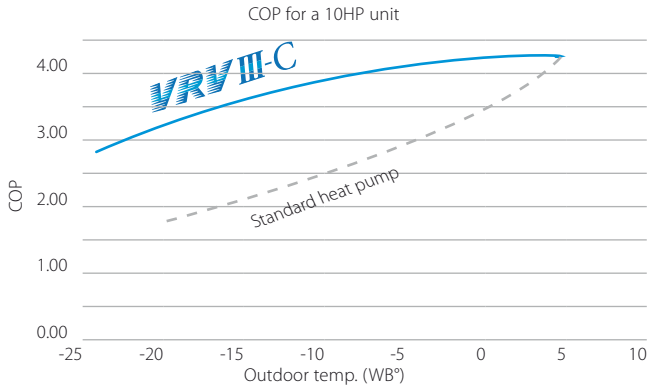
Find out more at www.daikineurope.com/citysecret

VRVIII-C
VRV heat pump
where heating is priority without compromising on efficiency

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

High COP at low ambients

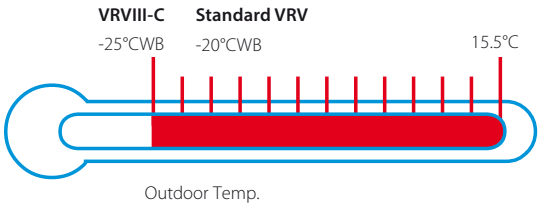
The use of two stage compression technology results in improved energy saving performance at low ambients, with a COP of more than 3.0 at -10°C outdoor ambient for the entire range.



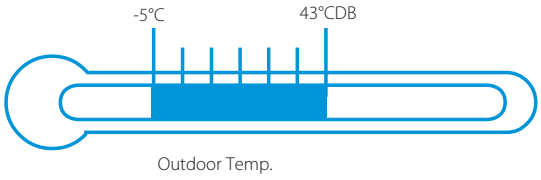
Wide heating operation range

VRVIII-C has a standard operation range down to -25 °CWB outdoor ambient in heating and can also provide cooling down to - 5 °CDB outdoor ambient.

Heating mode

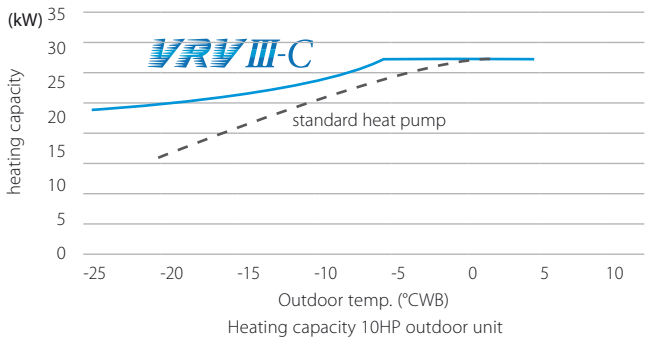


Cooling mode



Stable heating capacity

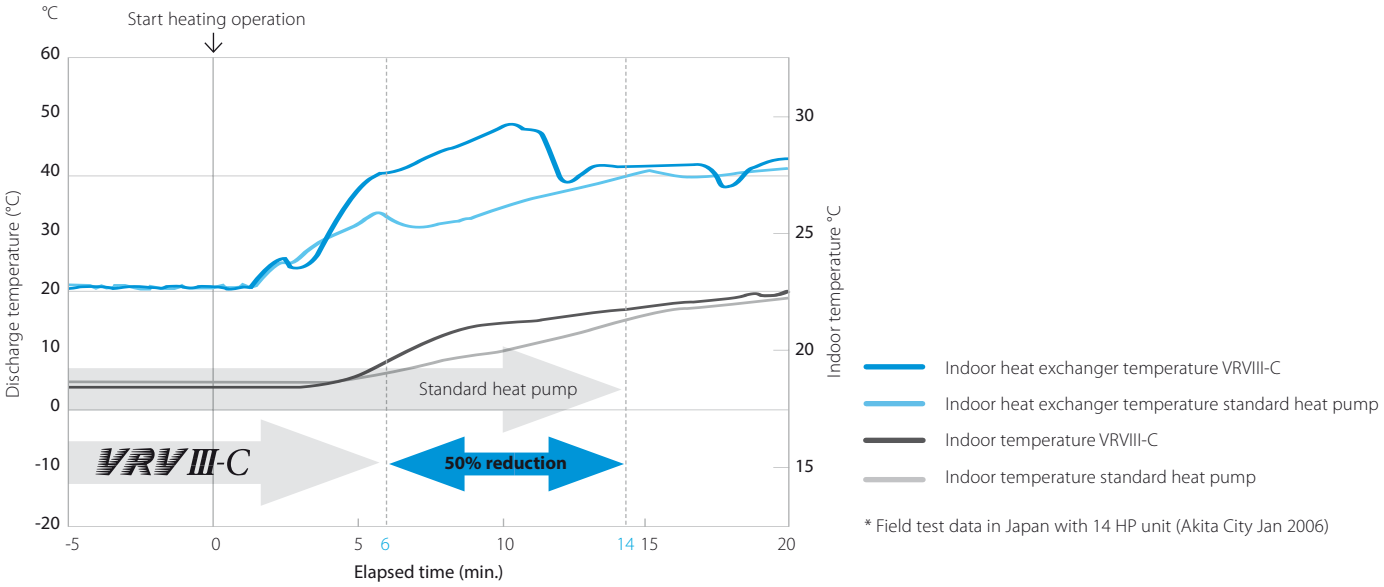
VRVIII-C has a stable heating capacity, even in low ambients, making it suitable for single source heating. The heating capacity is 130% in comparison with the standard VRV heating capacity under similar conditions.



Heating capacity 10HP outdoor unit

High heat up speed

Heat up time is dramatically reduced, particularly under low ambient conditions. The required time for the indoor unit heat exchanger discharge temperature to reach 40°C has been reduced by 50%.



* Field test data in Japan with 14 HP unit (Akita City Jan 2006)

Short defrost time

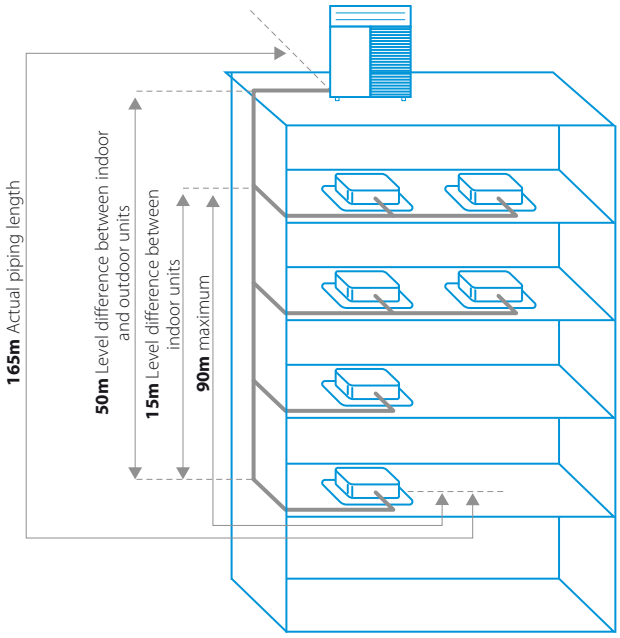
The time required for defrost is reduced to 4 minutes – less than half that of the standard VRVIII system (10 minutes), leading to a more stable interior indoor temperature and considerably improved comfort levels.

* Field test data in Japan with 10 HP unit (Akita City Jan 2006)

Flexible piping design

Total piping length	500m
Longest length actual (Equivalent)	165m (190m)
Longest length between outdoor unit and function unit	10m
Longest length after first branch	40m (90m[1])
Level difference between indoor and outdoor units	50m (40m[2])
Level difference between indoor units	15m

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



VRVIII heat pump, optimised for heating

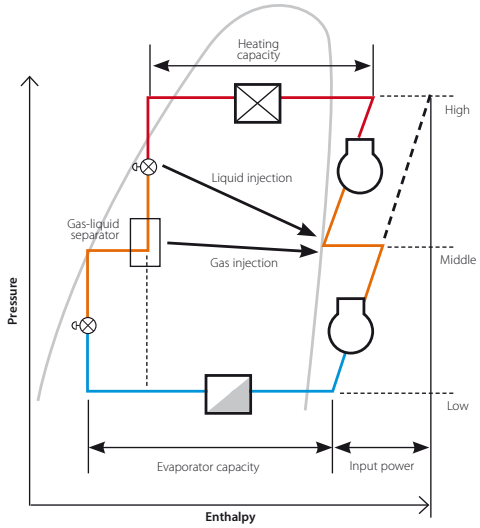
Where heating is priority without compromising on efficiency

- First system in the industry developed for heating operation in low ambient conditions, making it suitable for single source heating
- Extended operation range down to -25°C in heating
- Stable heating capacity and high COP values at low ambients thanks to the two stage compression technology (COP values of 3.0 and more at -10°C)
- Improved comfort thanks to shorter defrost time
- Shorter heat up time compared to standard VRVIII heat pump
- Contains all standard VRV features

RTSYQ14-16PA

Two stage compression

Two stage compression technology enables the system to create higher pressures resulting in a higher heating capacity under low ambient conditions. The second inverter compressor (located in the function unit) is specially designed to provide higher pressures. After heat is exchanged in the indoor unit, gas and liquid are separated at the gas-liquid separator. This enables the refrigerant in gas condition to be recovered and transmitted direct to the high pressure compressor.



Outdoor system				RTSYQ	10PA	14PA	16PA	20PA
System	Outdoor unit module 1				RTSQ10PAY1	RTSQ14PAY1	RTSQ16PAY1	RTSQ8PAY1
	Outdoor unit module 2					-		RTSQ12PAY1
	Function unit					BTSQ20PY1		
Capacity range				HP	10	14	16	20
Cooling capacity	Nom.	35°CDB		kW	28,0	40,0	45,0	56,0
Heating capacity	Nom.	6°CWB		kW	31,5 / 28,0	45,0 / 40,0	50,0 / 45,0	63,0 / 55,9
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	7,90	12,6	14,9	15,4
	Heating	Nom.	6°CWB	kW	7,78 / 8,18	11,4 / 12,8	13,0 / 15,0	15,4 / 18,70
EER at nom. capacity	35°CDB			kW/kW	3,54	3,17	3,02	3,64
COP at max. capacity	6°CWB			kW/kW	4,05 / 3,42	3,95 / 3,13	3,85 / 3,00	4,09 / 2,99
Maximum number of connectable indoor units					21	30	34	43
Indoor index connection	Min.				125	175	200	250
	Nom.				250	350	400	500
	Max.				325	455	520	650
Sound pressure level	Cooling	Nom./Max.		dBA	60/62	61/63	63/65	
Piping connections	Liquid	OD		mm	9,52	12,7		15,9
	Gas	OD		mm	22,2	28,6		
	Total piping length	System	Actual	m	500			
	Oil equalizing	OD		mm		-		19,1
Current - 50Hz	Maximum fuse amps (MFA)			A	25	35	40	50

Outdoor unit module				RTSQ	BTSQ20P	8PA	10PA	12PA	14PA	16PA
Dimensions	Unit	Height/Width/Depth		mm	1.570/460/765	1.680/930/765			1.680/1.240/765	
Weight	Unit			kg	110	205	257		338	344
Fan	Air flow rate	Cooling	Nom.	m^3/min	-	185		200	233	239
	External static pressure	Max.		Pa	-	78				
	Type				-	Propeller fan				
Sound power level	Cooling	Nom.		dBA	-					
Operation range	Cooling	Min.~Max.		°CDB	-5~43					
	Heating	Min.~Max.		°CWB	-25~15,5					
Refrigerant	Type				R-410A					
	GWP				2.087,5					
	Charge			TCO_2eq	-	19,6	21,9	22,8	24,4	
				kg	-	9,4	10,5	10,9	11,7	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25			35	40

VRV Classic heat pump RXYCQ-A

For standard cooling & heating requirements

Indoor units
VRV type indoor units

Ventilation
Heat Reclaim ventilation (VAM/VKM)

Control systems

› Low noise function

› Reluctance brushless DC compressor

› Sine wave DC inverter

› DC fan motor

› E-pass heat exchanger

› Manual demand function

Benefits

› For projects with standard cooling & heating requirements
› Fits any building as also indoor installation is possible as a result of high external static pressure of up to 78.4 Pa. Indoor installation leads to less piping length, lower installation costs, increased efficiency and better visual aesthetics
› The ability to control each conditioned zone individually keeps VRV system running costs to an absolute minimum
› Spread your installation cost by phased installation
› Connectable to all standard VRV indoor units, controls and ventilation

Flexible piping design

Total piping length	300m
Longest length actual (Equivalent)	135m (155m)
Longest length after first branch	40m (90m[1])
Level difference between indoor and outdoor units	30m
Level difference between indoor units	15m

1 Contact your local dealer for more information and restrictions

VRV Classic

Classic VRV configuration

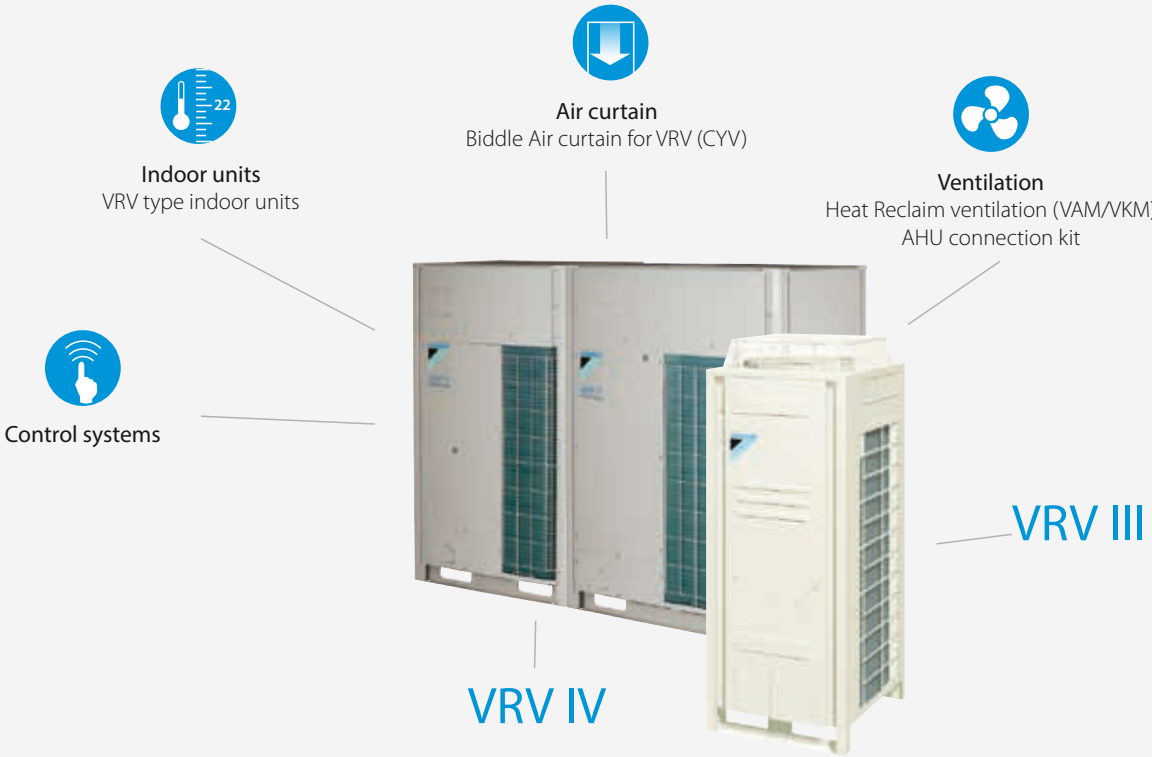
› For standard cooling & heating requirements
› Connectable to all standard VRV indoor units, controls and ventilation
› Contains all standard VRV features

RXYCQ16-20A

Outdoor unit				RXYCQ	8A	10A	12A	14A	16A	18A	20A
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Nom.	35°CDB		kW	20,0	25,0	30,0	35,0	40,0	45,0	50,4
Heating capacity	Nom.	6°CWB		kW	22,4	28,0	33,6	31,5	44,8	50,4	56,5
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	6,60	6,74	8,77	11,4	12,9	15,0	17,9
	Heating	Nom.	6°CWB	kW	5,80	7,00	8,62	8,18	11,8	13,8	16,1
EER at nom. capacity	35°CDB			kW/kW	3,03	3,71	3,42	3,07	3,10	3,00	2,81
COP at max. capacity	6°CWB			kW/kW	3,86	4,00	3,90	3,85	3,80	3,65	3,50
Maximum number of connectable indoor units					64						
Indoor index connection	Min.				100	125	150	175	200	225	250
	Nom.				200	250	300	350	400	450	500
	Max.				200	250	360	420	480	540	600
Dimensions	Unit	HeightxWidthxDepth		mm	1.680x635x765	1.680x930x765			1.680x1.240x765		
Weight	Unit			kg	159	187	240		316		324
Fan	Air flow rate	Cooling	Nom.	m^3/min	95	171	185	196	233		239
Sound power level	Cooling	Nom.		dBA	78	81			86		88
Sound pressure level	Cooling	Nom.		dBA	58	59	61		64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5~43						
	Heating	Min.~Max.		°CWB	-20~15,5						
Refrigerant	Type				R-410A						
	GWP				2.087,5						
	Charge			TCO_2eq	12,9	16,1	17,5	18	23,6	24	24,4
				kg	6,2	7,7	8,4	8,6	11,3	11,5	11,7
Piping connections	Liquid	OD		mm		9,52			12,7		15,9
	Gas	OD		mm	15,9	19,1	22,2		28,6		
	Total piping length	System	Actual	m	300						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	16	25			40		

Replacement VRV

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



VRV IV
Q-series

Heat pump

Variable refrigerant temperature

Variable Refrigerant Temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

- 7 segment display
- Automatic refrigerant charge
- 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

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

VRV III-Q

Heat pump & Heat recovery

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

Replacement technology

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

These benefits will convince your customer

Drastically improve your efficiency, comfort and reliability

Avoid loss of business

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

Quick and easy installation

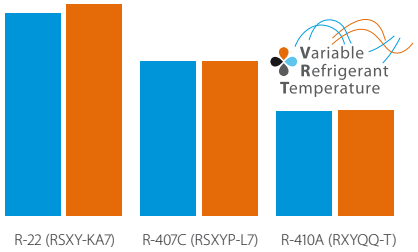
No interruption of daily business while replacing the system thanks to phased-in, fast installation.

Smaller footprint, more performance

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

Lower long-term costs

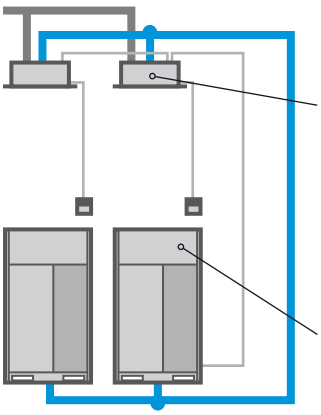
EU Directives prohibit system repairs with R-22 after January 1, 2015. Delaying the required R-22 replacement until an unplanned system breakdown is a losing game. Replacement day will come. Installing a technically advanced system lowers energy consumption and maintenance costs from day one.



Up to 48% less consumption

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

Keep your refrigerant piping



The Daikin low-cost upgrade solution

! Replace indoor units and BS boxes

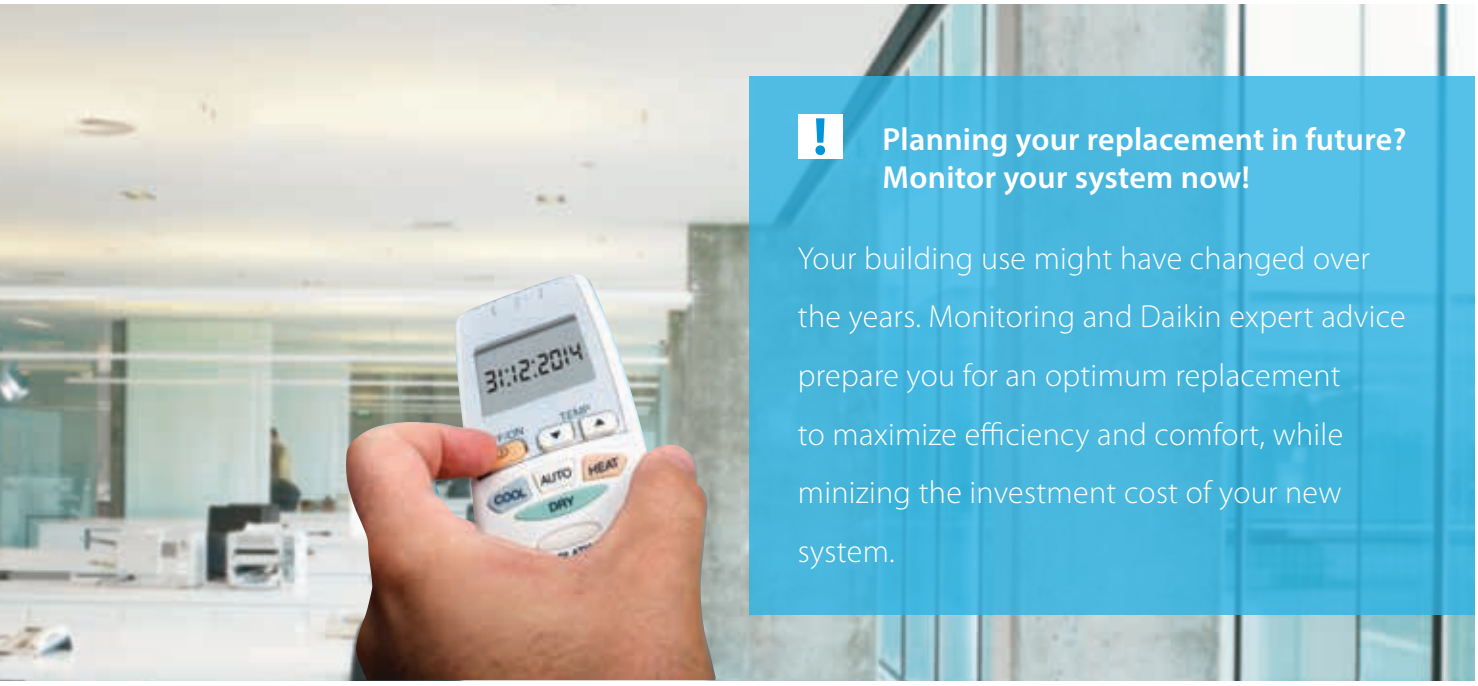
Contact your local dealer to check compatibility in case you need to keep the indoor units.

! Replace outdoor units

Your copper pipes will last for multiple generations

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

Umeda Center Building, Japan
> original A/C system: 20 years in use
> replacement with VRV Q-series: 2006 - 2009
> capacity up from 1620HP to 2322HP
> SHASE renewal award: 2013 (1st)



Planning your replacement in future? Monitor your system now!

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

VRV-Q benefits to increase your profit

Optimise your business

Less installation time

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

Lower installation costs

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

Replace non-Daikin systems

NON DAIKIN > DAIKIN

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

Easy as one-two-three

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

Automatic refrigerant charge

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

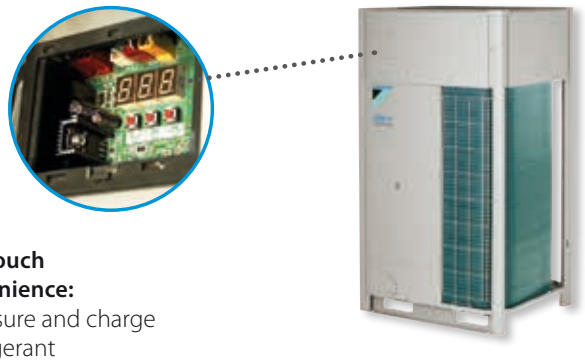
Automatic pipe cleaning

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

Compare installation steps

Conventional solution	VRV-Q
1 Recover refrigerant	1 Recover refrigerant
2 Remove units	2 Remove units
3 Remove refrigerant pipes	Re-use existing piping and wiring
4 Install new piping and wiring	3 Install new units
5 Install new units	4 Leak test
6 Leak test	5 Vacuum drying
7 Vacuum drying	6 Auromatic refrigerant charging, cleaning and testing
8 Refrigerant charging	
9 Collect contamination	
10 Test operation	

Up to 45% shorter installation time



One touch convenience:

› Measure and charge refrigerant
› Automatic pipe cleaning
› Test operation

Replacement VRV

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 70% can be realized, by virtue of 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
- 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-T only)
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors (RXYQQ-T only)
- Possibility to add indoor units and increase capacity without changing the refrigerant piping
- Possibility to spread the various stages of repclacement thanks to the modular design of the VRV system
- Free combination of outdoor units to meet installation space or efficiency requirements (RXYQQ-T only)

RQCEQ712-848P3

Outdoor system					RQCEQ	280P3	360P3	460P3	500P3	540P3	636P3	712P3	744P3	816P3	848P3
System	Outdoor unit module 1					RQEQ140P3	RQEQ180P3	RQEQ140P3		RQEQ180P3	RQEQ212P3	RQEQ140P3		RQEQ180P3	RQEQ212P3
	Outdoor unit module 2					RQEQ140P3	RQEQ180P3	RQEQ140P3	RQEQ180P3		RQEQ212P3	RQEQ180P3		RQEQ212P3	
	Outdoor unit module 3					-		RQEQ180P3			RQEQ212P3	RQEQ180P3	RQEQ212P3		
	Outdoor unit module 4					-						RQEQ212P3			
Capacity range					HP	10	13	16	18	20	22	24	26	28	30
Cooling capacity	Nom.	35°CDB			kW	28,0	36,0	45,0	50,0	54,0	63,6	71,2	74,4	81,6	84,8
Heating capacity	Nom.	6°CWB			kW	32,0	40,0	52,0	56,0	60,0	67,2	78,4	80,8	87,2	89,6
Power input - 50Hz	Cooling	Nom.	35°CDB		kW	7,04	10,3	12,2	13,9	15,5	21,9	21,2	23,3	27,1	29,2
	Heating	Nom.	6°CWB		kW	8,00	10,7	13,4	14,7	16,1	17,7	20,7	21,2	23,1	23,6
EER at nom. capacity	35°CDB				kW/kW	3,98	3,48	3,77	3,61	3,48	2,90	3,36	3,19	3,01	2,90
COP at max. capacity	6°CWB				kW/kW	4,00	3,72	3,89	3,80	3,72	3,79	3,80	3,81	3,77	3,79
Maximum number of connectable indoor units						21	28	34	39	43	47	52	56	60	64
Indoor index connection	Min.					140	180	230	250	270	318	356	372	408	424
	Nom.					280	360	500		540	636	712	744	816	848
	Max.					364	468	598	650	702	827	926	967	1.061	1.102
Sound pressure level	Cooling	Nom.			dBA	57	61		62	63	64	63	64	65	66
Piping connections	Liquid	OD			mm	9,52	12,7		15,9				19,1		
	Gas	OD			mm	22,2	25,4	28,6					34,9		
	Total piping length	System	Actual		m	300									
	Discharge gas	OD			mm	19,1		22,2			25,4			28,6	
Current - 50Hz	Maximum fuse amps (MFA)				A	30	40	50	60		70	80		90	

Outdoor unit module				RQEQ	140P3	180P3	212P3
Dimensions	Unit	Height/Width/Depth		mm	1.680/635/765		
Weight	Unit			kg	175		179
Fan	Air flow rate	Cooling	Nom.	m^3/min	95	110	
	Type				Propeller fan		
Sound power level	Cooling	Nom.		dBA	-		
Sound pressure level	Cooling	Nom.		dBA	54	58	60
Operation range	Cooling	Min.~Max.		°CDB	-5~43		
	Heating	Min.~Max.		°CWB	-20~15,5		
Refrigerant	Type				R-410A		
	GWP				2.087,5		
	Charge			TCO_2eq	21,5	22,1	23,4
				kg	10,3	10,6	11,2
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	15	20	22,5

Replacement VRV

RXYQQ8-12T

Outdoor unit				RXYQQ-T	RQYQ140P	8T	10T	12T	14T	16T	18T	20T
System	Outdoor unit module 1				RQYQ140P	-						
Capacity range				HP	5	8	10	12	14	16	18	20
Cooling capacity	Nom.	35°CDB		kW	14,0	22,4	28,0	33,5	40,0	45,0	50,4	56,0
Heating capacity	Nom.	6°CWB		kW	16,0	22,4	28,0	33,5	40,00	45,0	50,4	56,0
	Max.	6°CWB		kW	-	25,00	31,50	37,50	45,00	50,00	56,50	63,00
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	3,36	5,21	7,29	8,98	11,0	13,0	15,0	18,5
	Heating	Nom.	6°CWB	kW	3,91	4,75	6,29	7,77	9,52	11,1	12,6	14,50
		Max.	6°CWB	kW	-	5,5	7,38	9,1	11,2	12,8	14,6	17,0
EER at nom. capacity	35°CDB			kW/kW	4,17	4,30	3,84	3,73	3,64	3,46	3,36	3,03
COP at nom. capacity	6°CWB			kW/kW	-	4,72	4,45	4,31	4,20	4,05	4,00	3,86
COP at max. capacity	6°CWB			kW/kW	4,09	4,54	4,27	4,12	4,02	3,91	3,87	3,71
ESEER - Automatic					-	7,53	7,20	6,96	6,83	6,50	6,38	5,67
Maximum number of connectable indoor units					10	64						
Indoor index connection	Min.				62,5	100	125	150	175	200	225	250
	Nom.				125	200	250	300	350	400	450	500
	Max.				162,5	260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth		mm	1.680x635x765	1.685x930x765			1.685x1.240x765			
Weight	Unit			kg	175	187	194		305		314	
Fan	Air flow rate	Cooling	Nom.	m^3/min	95	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	-	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dBA	54,0	58		61		64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5~43							
	Heating	Min.~Max.		°CWB	-20~15,5							
Refrigerant	Type				R-410A							
	GWP				2.087,5							
	Charge			TCO_2eq	23,2	12,3	12,5	13,2	21,5	21,7	24,4	24,6
				kg	11,1	5,9	6	6,3	10,3	10,4	11,7	11,8
Piping connections	Liquid	OD		mm	9,52			12,7			15,9	
	Gas	OD		mm	15,9	19,1	22,2	28,6				
	Total piping length	System	Actual	m	300							
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	15	20	25	32		40		50

Outdoor unit				RXYQQ-T	22T	24T	26T	28T	30T	32T	34T	36T	38T	40T	42T
System	Outdoor unit module 1				RXYQQ10T	RXYQQ8T	RXYQQ12T			RXYQQ16T			RXYQQ8T	RXYQQ10T	
	Outdoor unit module 2				RXYQQ12T	RXYQQ16T	RXYQQ14T	RXYQQ16T	RXYQQ18T	RXYQQ16T	RXYQQ18T	RXYQQ20T	RXYQQ10T	RXYQQ12T	RXYQQ16T
	Outdoor unit module 3				-								RXYQQ20T	RXYQQ18T	RXYQQ16T
Capacity range				HP	22	24	26	28	30	32	34	36	38	40	42
Cooling capacity	Nom.	35°CDB		kW	61,5	67,4	73,5	78,5	83,9	90,0	95,4	101,0	106,3	111,9	118,0
Heating capacity	Nom.	6°CWB		kW	61,5	67,4	73,5	78,5	83,9	90,0	95,4	101,0	106,3	111,9	118,0
	Max.	6°CWB		kW	69,0	75,0	82,5	87,5	94,0	100,0	106,5	113,0	119,0	125,5	131,5
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	16,27	18,21	19,98	21,98	24,0	26,0	28,0	31,5	29,2	31,3	33,29
	Heating	Nom.	6°CWB	kW	14,06	15,85	17,29	18,87	20,4	22,2	23,7	25,6	25,1	26,7	33,0
		Max.	6°CWB	kW	16,48	18,30	20,30	21,90	23,7	25,6	27,4	29,8	29,2	31,1	28,5
EER at nom. capacity	35°CDB			kW/kW	3,78	3,70	3,68	3,57	3,5		3,4	3,2	3,6		3,54
COP at nom. capacity	6°CWB			kW/kW	4,37	4,25		4,16	4,10	4,05	4,00	3,95	4,2		4,14
COP at max. capacity	6°CWB			kW/kW	4,19	4,10	4,06	4,00		3,91	3,90	3,79	4,1	4,0	3,99
ESEER - Automatic					7,07	6,81	6,89	6,69	6,60	6,50	6,44	6,02	6,36	6,74	6,65
Maximum number of connectable indoor units					64										
Indoor index connection	Min.				275	300	325	350	375	400	425	450	475	500	525
	Nom.				550	600	650	700	750	800	850	900	950	1.000	1.050
	Max.				715	780	845	910	975	1.040	1.105	1.170	1.235	1.300	1.365
Piping connections	Liquid	OD		mm	15,9			19,1							
	Gas	OD		mm	28,6	34,9						41,3			
	Total piping length	System	Actual	m	300										
Current - 50Hz	Maximum fuse amps (MFA)			A	63			80					100		

(1) The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality (2) The AUTOMATIC SEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation) (3) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%)

Water cooled VRV IV W+ series

Ideal for high rise buildings, using water as heat source

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

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

Control systems

Air curtain
Biddle Air curtain for VRV (CYV)
› RWEYQ-T9

Hot water NEW
High temperature hydrobox
Low temperature hydrobox

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

Widest range of BS boxes for the fastest installation

Variable Refrigerant Temperature

VRV IV standards: Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator NEW

Software for simplified commissioning, configuration and customisation

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

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

NEW
RWEYQ-T9

Water-to-air heat pump

VRV IV W+ series

The new VRV IV W+ series bring a whole new range of features to increase your flexibility and make commissioning easier.

More flexibility

- Mixed connection of hydroboxes and VRV indoor units
- Connects to VRV or stylish indoor units such as Daikin Emura, Nexura, …
- Most compact casing in the market
- No heat dissipation allows installation in non-ventilated indoor spaces

Unique zero heat dissipation principle

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

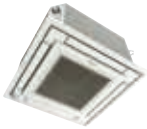
Easier commissioning & customisation

- 7 segment display
- 5 output signals allowing external control of
  - ON-OFF (e.g. compressor)
  - Operation mode (cooling / heating)
  - Limit of capacity
  - Error signal
- Rotating switchbox

Total solution

NEW Daikin Emura wall mounted unit

NEW Nexura Floor standing unit



Fully flat cassette

Intelligent Manager

Biddle air curtain

NEW Air handling unit for ventilation

NEW Low temperature hydrobox

NEW High temperature hydrobox

Geothermal operation and advantages

Geothermal operation uses the more stable temperature of the ground around the building, eliminating the need for another heat source. It reduces CO_2 emissions and is an infinitely renewable energy source.

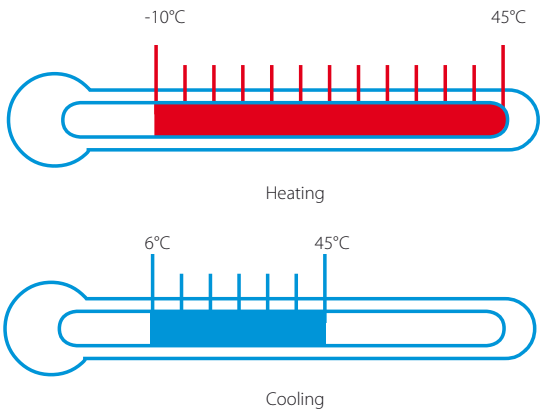
Indoor installation makes unit invisible from the outside

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
› Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation

Wide operation range

Standard water cooled outdoor units have a wide operation range between 10°C & 45°C inlet water temperature, both in heating and cooling. In geothermal mode the operation range is extended even more, down to -10°C* in heating and 6°C in cooling mode.



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

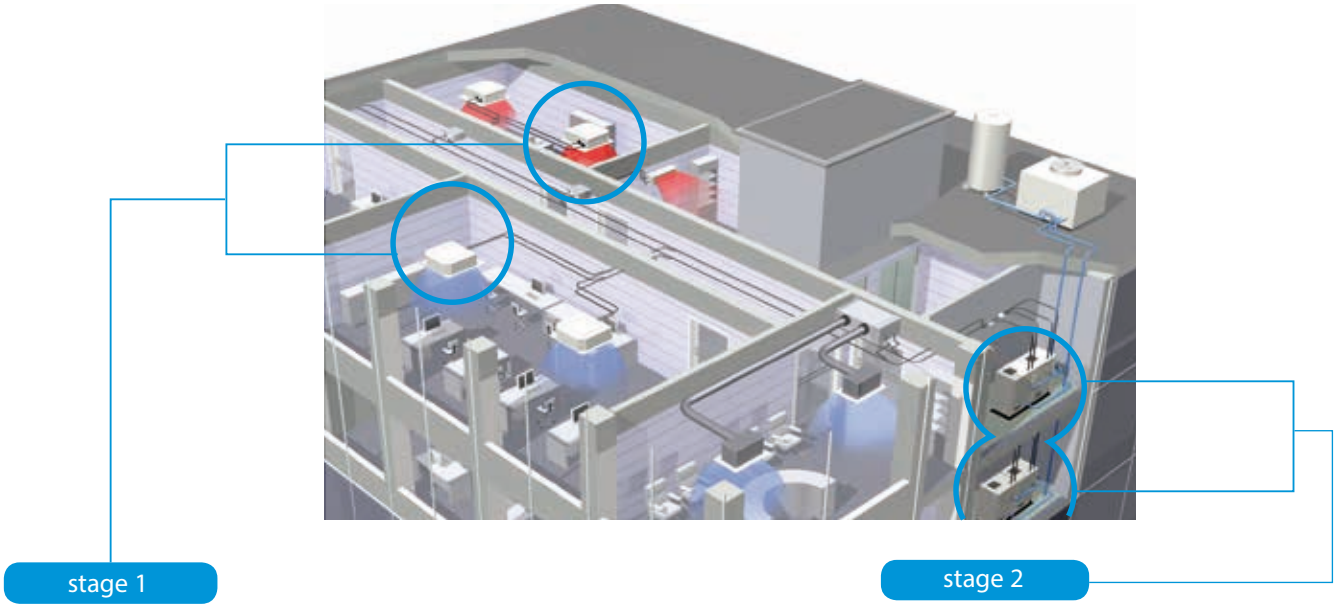
High energy efficiencies results from 2-stage heat recovery

Stage 1: Heat recovery between indoor units in the same refrigerant circuit

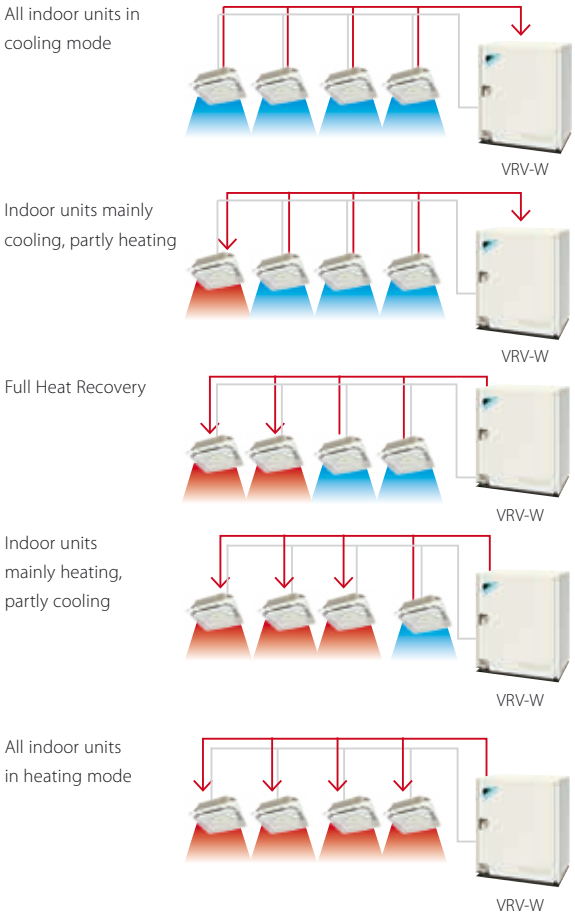
Heat exhausted from indoor units in cooling mode is transferred to units in areas requiring heating, maximising energy efficiency and reducing electricity costs.

Stage 2: Heat recovery between the outdoor units via the water loop - also available on heat pump units!

Second stage heat recovery is achieved within the water loop between the water cooled outdoor units.

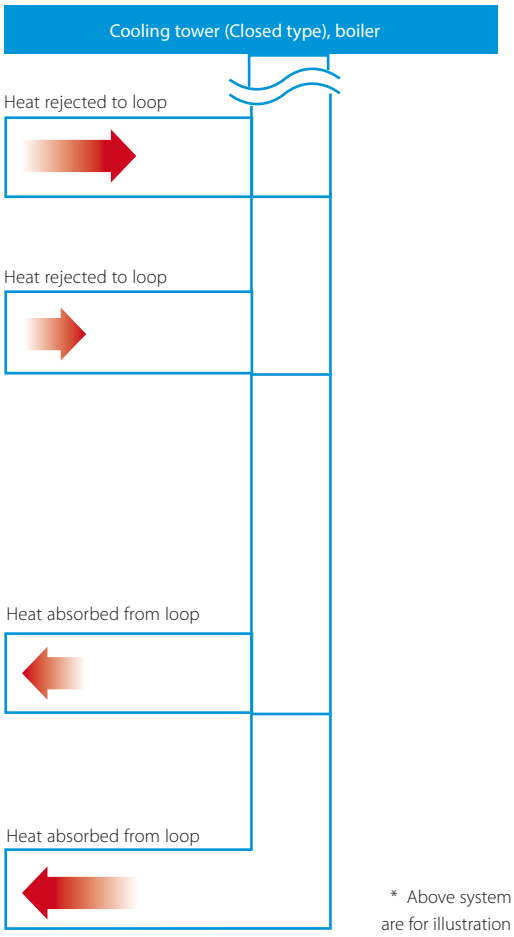


Heat recovery between indoor units



Heat recovery between outdoor units

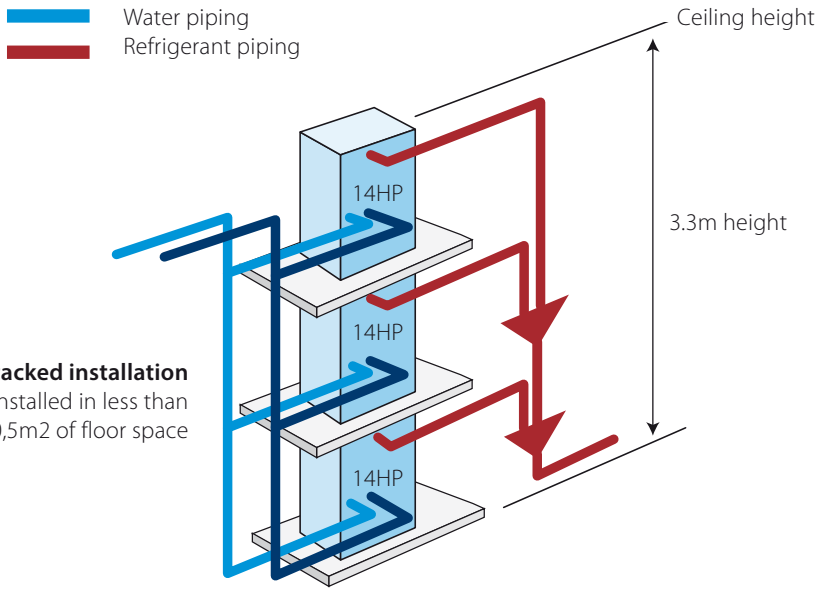
(Heat recovery and heat pump)



* Above system configurations are for illustration purposes only.

Space saving - Stacked configuration

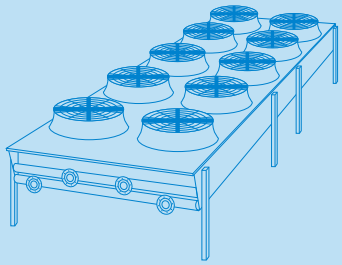
The adoption of a new water heat exchanger and optimization of the refrigerant control circuit has resulted in the industry's most compact and lightweight design. The unit height of 1,000 mm makes installation easy. Stacked configuration is also possible, contributing further to space savings.

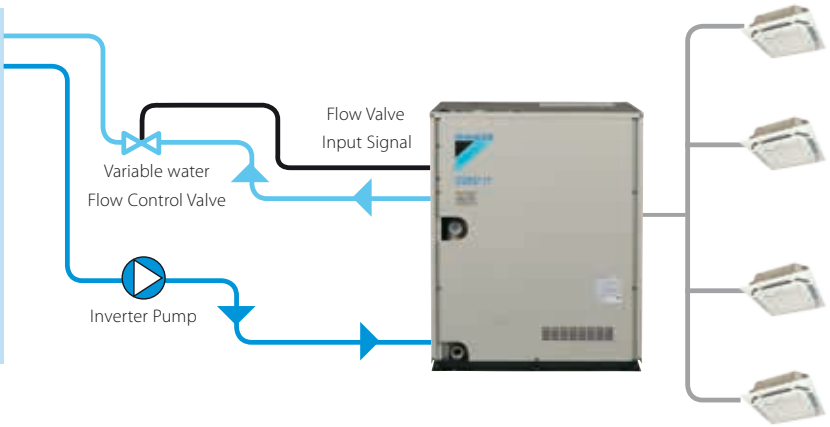


Space saving stacked installation
Up to 42HP system installed in less than 0,5m2 of floor space

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

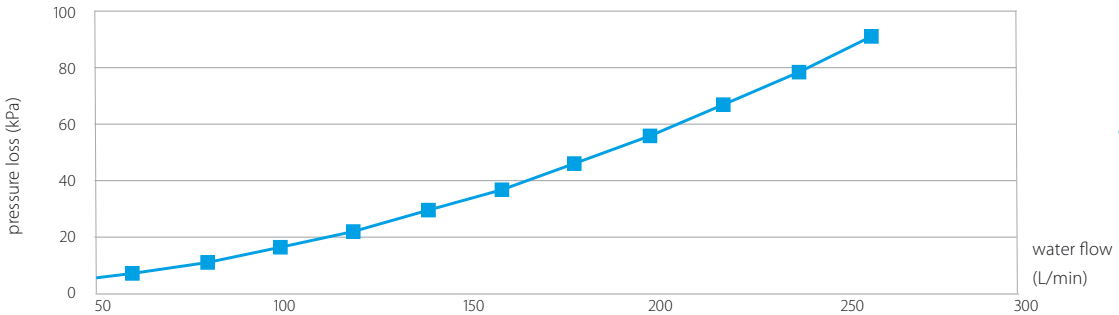

Cooling tower (Closed type), boiler



Standard water strainer

A standard water strainer reduces installation time. The new filter also has less pressure drop at higher water flows.

	Specifications
Connections	G1 ¼"
PHE connections	G1 ¼"
Mesh size	Max. particle diam. 0,5mm
Design Pressure	2.0MPa
Design Temp.	Max. 80 °C
Glycol resistance	Up to 40% ethylene glycol
Pressure drop	See below graph



Lower refrigerant 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

Fully redesigned BS boxes

Maximum design flexibility and installation speed

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

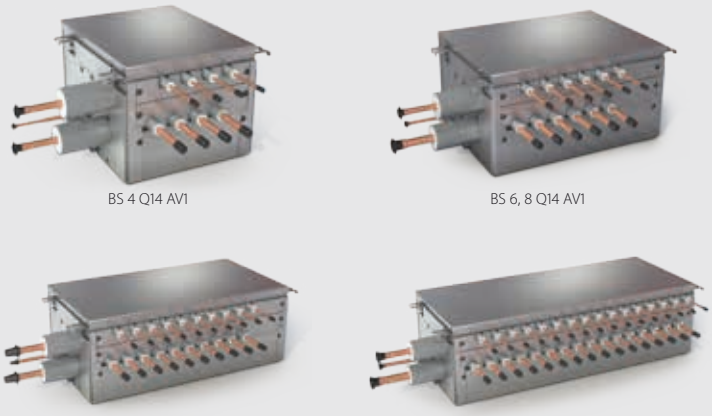
Single port

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

BS1Q 10, 16, 25 A

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 4 Q14 AV1

BS 6, 8 Q14 AV1

BS 10, 12 Q14 AV1

BS 16 Q14 AV1

Flexible piping design

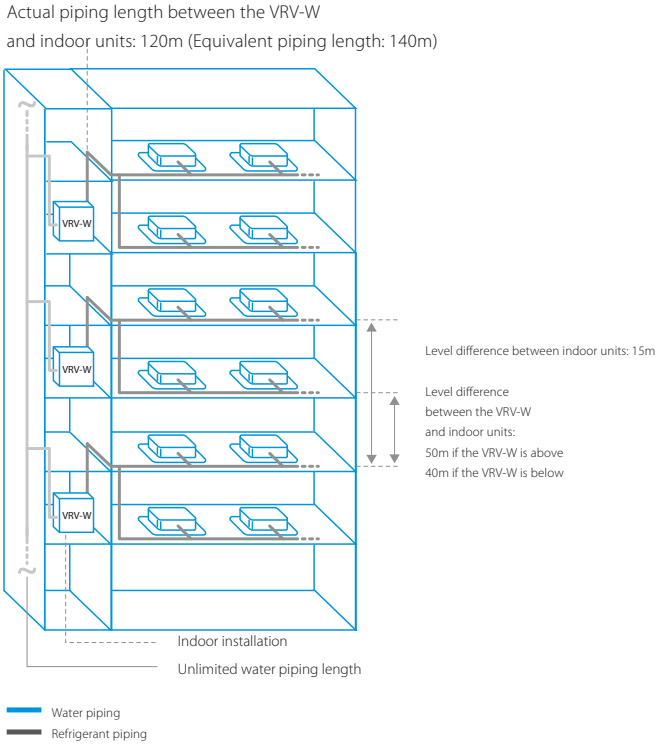
Flexible water piping

Water cooled VRV uses water as its heat source, so it is optimal for large buildings, including tall, multi-storey buildings, because the system can tolerate water pressure of up to 1.96 MPa.

Furthermore, if the currently installed heat source's water temperature is between 10°C and 45°C, it may be possible to use the existing water pipe work and heat source. This alone makes it an ideal system solution for building refubishment projects.

Total piping length	300m
Longest length actual (Equivalent)	120m (140m)
Longest length after first branch	40m (90m[1])
Level difference between indoor and outdoor units	50m (40m[2])
Level difference between indoor units	15m

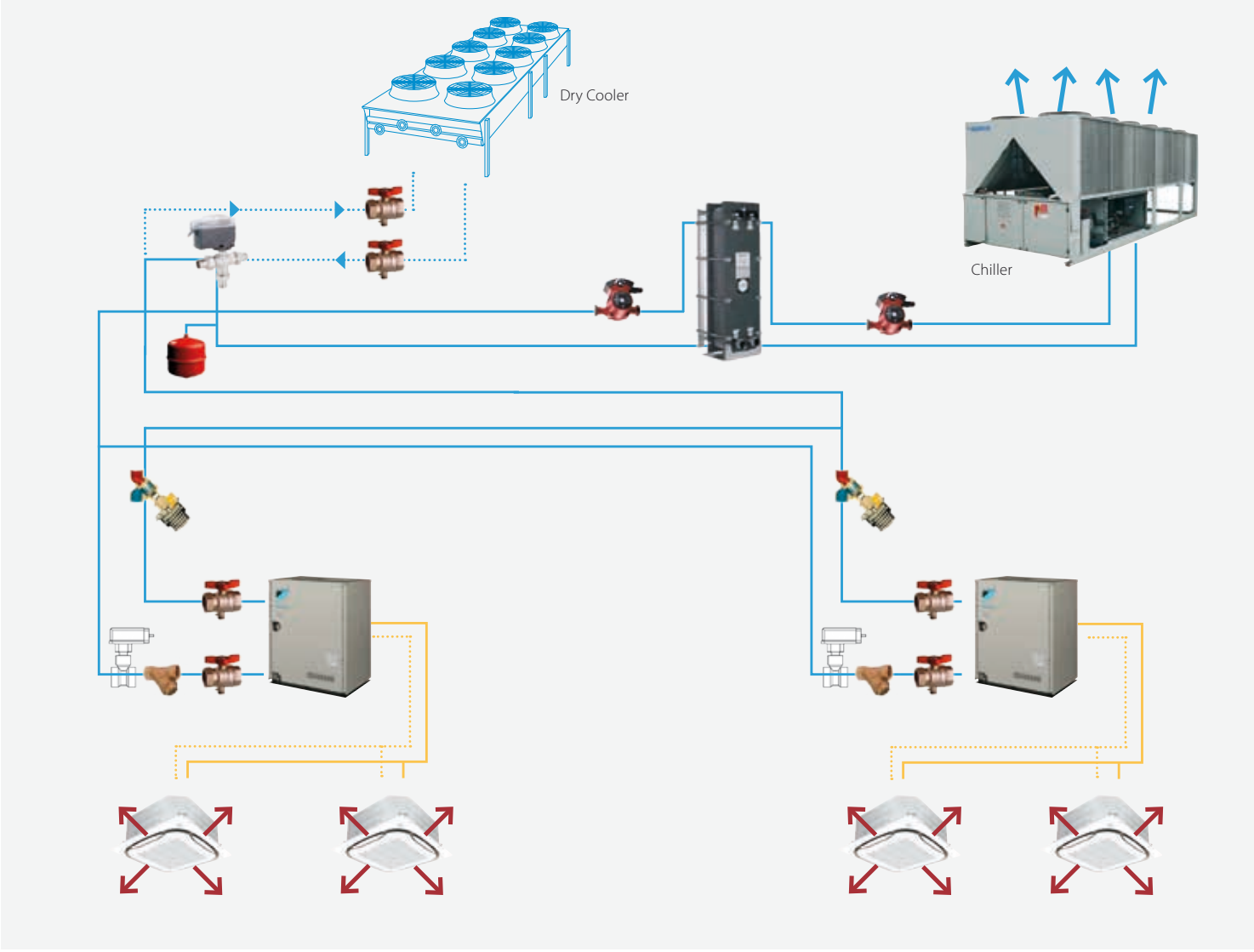
1 Contact your local dealer for more information and restrictions
2 In case outdoor unit is located below indoor units



Application

examples

Dry cooler used for cooling, Chiller used for heating



Expansion tank

Circulator Pump

Flow valve
or flow control valve

Stop valve

Strainer

Heat exchanger

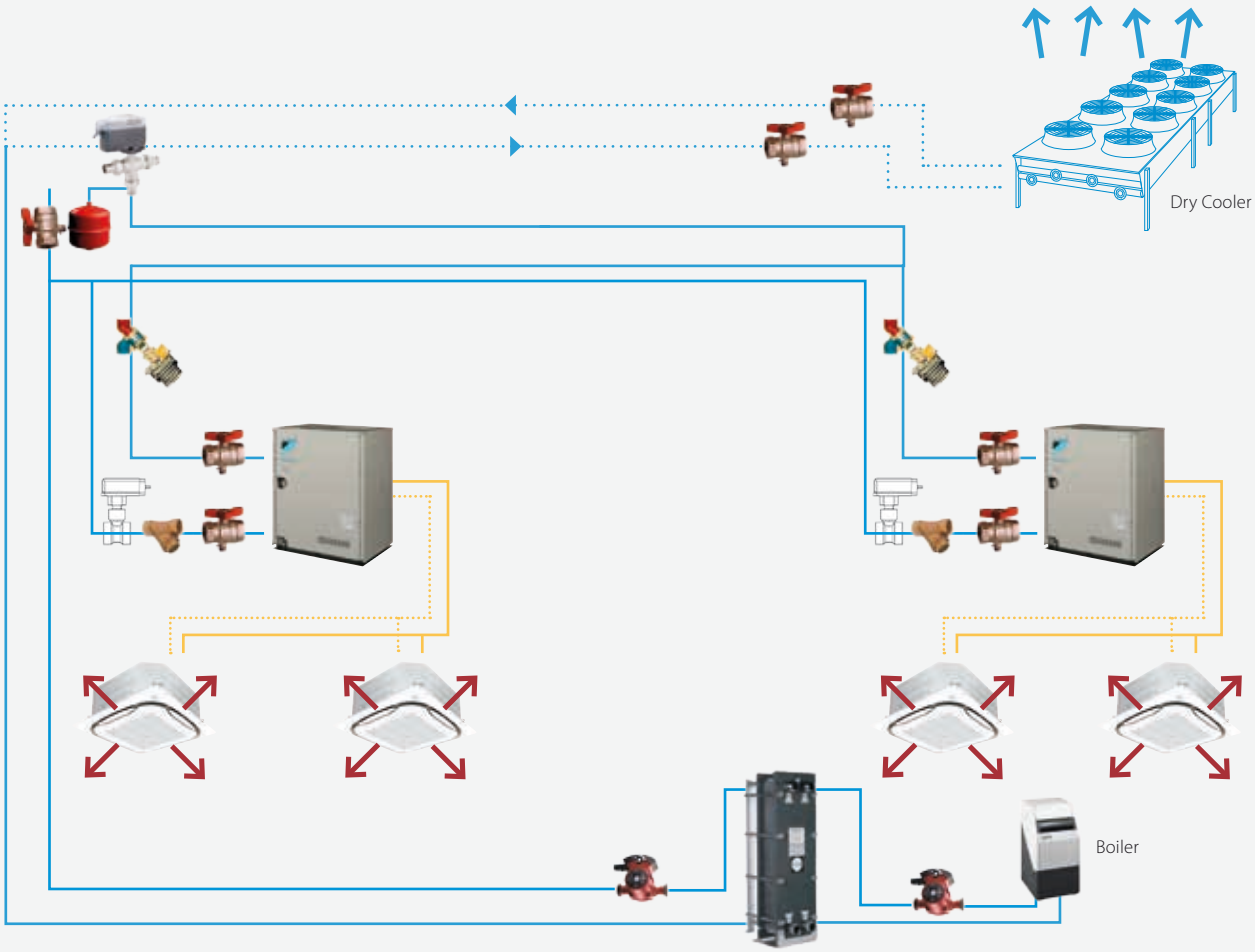
Flow switch

Three way valve

Water flow

Refrigerant flow

Dry cooler used for cooling, boiler used for heating



Expansion tank

Circulator Pump

Flow valve or flow control valve

Stop valve

Strainer

Heat exchanger

Flow switch

Three way valve

Water flow

Refrigerant flow

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.

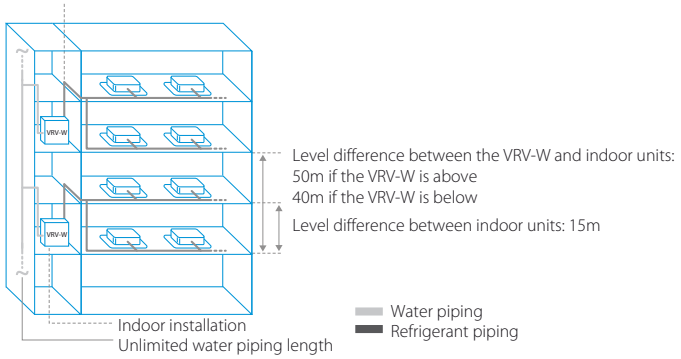
× Glycol is needed to prevent freezing of the water.

VRV IV water cooled series

Ideal for high rise buildings, using water as heat source

- Unified range for standard and geothermal series simplifies stock. Geothermal series reduce CO_2 emmisions 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
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Compact & lightweight design can be stacked for maximum space saving
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit
- Available in heat pump and heat recovery version
- Variable Water Flow control option increases flexibility and control
- Contains all standard VRV features

RWEYQ8-10T8



Outdoor unit					RWEYQ	8T8	10T8	16T8	18T8	20T8	24T8	26T8	28T8	30T8
System	Outdoor unit module 1					RWEYQ8T	RWEYQ10T	RWEYQ8T		RWEYQ10T	RWEYQ8T			RWEYQ10T
	Outdoor unit module 2					-		RWEYQ8T	RWEYQ10T		RWEYQ8T		RWEYQ10T	
	Outdoor unit module 3							-			RWEYQ8T	RWEYQ10T		
Capacity range					HP	8	10	16	18	20	24	26	28	30
Cooling capacity	Nom.	35°CDB			kW	22,4 (1) / 22,4 (2)	28,0 (1) / 27,5 (2)	44,8 (1) / 44,8 (2)	50,4 (1) / 49,9 (2)	56,0 (1) / 55,0 (2)	67,2 (1) / 67,2 (2)	72,8 (1) / 72,3 (2)	78,4 (1) / 77,4 (2)	84,0 (1) / 82,5 (2)
Heating capacity	Nom.	6°CWB			kW	25,0 (3) / 25,0 (4)	31,5 (3) / 31,5 (4)	50,0 (3) / 50,0 (4)	56,5 (3) / 56,5 (4)	63,0 (3) / 63,0 (4)	75,0 (3) / 75,0 (4)	81,5 (3) / 81,5 (4)	88,0 (3) / 88,0 (4)	94,5 (3) / 94,5 (4)
Power input - 50Hz	Cooling	Nom.	35°CDB		kW	4,42 (1) / 4,45 (2)	6,14 (1) / 6,35 (2)	8,8 (1) / 8,9 (2)	10,6 (1) / 10,8 (2)	12,3 (1) / 12,7 (2)	13,3 (1) / 13,4 (2)	15,0 (1) / 15,3 (2)	16,7 (1) / 17,2 (2)	18,4 (1) / 19,1 (2)
	Heating	Nom.	6°CWB		kW	4,21 (3) / 4,30 (4)	6,00 (3) / 6,20 (4)	8,4 (3) / 8,6 (4)	10,2 (3) / 10,5 (4)	12,0 (3) / 12,4 (4)	12,6 (3) / 12,9 (4)	14,4 (3) / 14,8 (4)	16,2 (3) / 16,7 (4)	18,0 (3) / 18,6 (4)
EER at nom. capacity	35°CDB				kW/kW	5,07 (1)	4,56 (1) / 4,33 (2)	5,07 (1) / 5,03 (2)	4,77 (1) / 4,62 (2)	4,56 (1) / 4,33 (2)	5,07 (1) / 5,03 (2)	4,86 (1) / 4,74 (2)	4,69 (1) / 4,51 (2)	4,56 (1) / 4,33 (2)
COP at max. capacity	6°CWB				kW/kW	5,94 (3) / 5,81 (4)	5,25 (3) / 5,08 (4)	5,94 (3) / 5,81 (4)	5,53 (3) / 5,38 (4)	5,25 (3) / 5,08 (4)	5,94 (3) / 5,81 (4)	5,65 (3) / 5,51 (4)	5,43 (3) / 5,27 (4)	5,25 (3) / 5,08 (4)
Maximum number of connectable indoor units						36 (5)								
Indoor index connection	Min.					100	125	200	225	250	300	325	350	375
	Nom.					200	250	400	450	500	600	650	700	750
	Max.					260	325	520	585	650	780	845	910	975
Dimensions	Unit	HeightxWidthxDepth			mm	1.000x780x550		-						
Weight	Unit				kg	137		-						
Fan	Air flow rate	Cooling	Nom.		m^3/min	-								
Sound pressure level	Cooling	Nom.			dBA	50	51	53	54		55			56
Operation range	Inlet water temperature	Cooling	Min.~Max.		°CDB	10~45		-						
		Heating	Min.~Max.		°CWB	-10 / 10,0~45		-						
Refrigerant	Type					R-410A		-						
	GWP					2.087,5		-						
	Charge				TCO_2eq	7,3	8,8	-						
					kg	3,5	4,2	-						
Piping connections	Liquid	OD			mm	9,52		12,7	15,9			19,1		
	Gas	OD			mm	19,10 (6)	22,2 (6)	28,6			34,9			
	Total piping length	System	Actual		m	300		300						
	Discharge gas	OD			mm	15,9 (7) / 19,10 (8)	19,1 (7) / 22,10 (8)	22,2 (6) / 28,60 (7)			28,6 (6) / 34,90 (7)			
Power supply	Phase/Frequency/Voltage				Hz/V	3N~/50/380-415		-						
Current - 50Hz	Maximum fuse amps (MFA)				A	20		32			50			

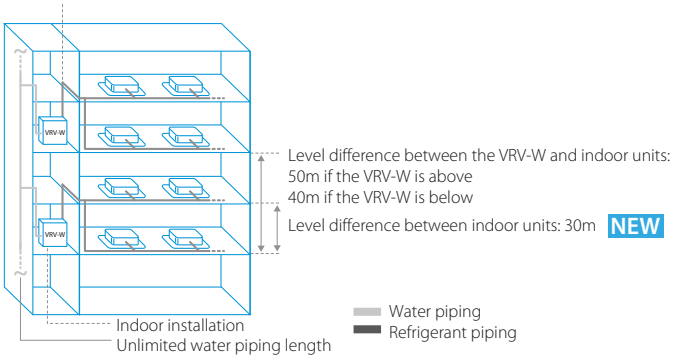
(1) Cooling: Indoor temp. 27°CDB; 19°CWB; inlet water temp.: 30°C; equivalent refrigerant piping: 7,5m; level difference: 0m. Rated values are with 100% water (no glycol) (2) Cooling: Indoor temp. 27°CDB; 19°CWB; inlet water temp.: 30°C; equivalent refrigerant piping: 7,5m; level difference: 0m. Rated values are with 30% glycol. (3) Heating: Indoor temp. 20°CDB; inlet water temp.: 20°C; equivalent refrigerant piping: 7,5m; level difference: 0m. Rated values are with 100% water (no glycol). (4) Heating: Indoor temp. 20°CDB; inlet water temp.: 20°C; equivalent refrigerant piping: 7,5m; level difference: 0m. Rated values are with 30% glycol. (5) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) (6) In case of heat pump system, gas pipe is not used (7) In case of heat recovery system (8) In case of heat pump system

VRV IV water cooled series

AVAILABLE FROM MAY 2017 ONWARDS

Ideal for high rise buildings, using water as heat source

- Unified range for standard and geothermal series simplifies stock. Geothermal series reduce CO_2 emmisions 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
- 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
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura, ...
- Compact & lightweight design can be stacked for maximum space saving
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit
- Available in heat pump and heat recovery version
- Variable Water Flow control option increases flexibility and control
- 2 analogue input signals allowing external control
- Contains all standard VRV features



NEW Extended piping length between indoor and outdoor units up to 165m (actual)

Outdoor unit				RWEYQ	8T9	10T9	12T9	14T9
Cooling capacity	Nom.	35°CDB		kW	22,4	28,0	33,5	40,0
Heating capacity	Nom.	6°CWB		kW	25,0	31,5	37,5	45,0
EER at nom. capacity	35°CDB			kW/kW	6,40	5,75	5,55	5,04
COP at nom. capacity	6°CWB			kW/kW	6,50	6,40	6,10	5,37
Indoor index connection		Min.			100	125	150	275
		Nom.			200	250	300	350
		Max.			300	375	450	525
Dimensions	Unit	HeightxWidthxDepth		mm	1.000 x 780 x 550			
Weight	Unit			kg				
Sound power level	Cooling	Nom.		dBA	-			
Sound pressure level	Cooling	Nom.		dBA	-			
Operation range	Inlet water temperature		Min.~Max.	°C	10 ~ 45			
Piping connections	Liquid	OD		mm	9,52		12,7	
	Gas	OD		mm	19,1	22,2	28,6	
	Discharge gas	OD		mm	15,9 (1) / 19,1 (2)	19,1 (1) / 22,2 (2)	19,1 (1) / 28,6 (2)	22,2 (1) / 28,6 (2)
Piping connections	Total piping length	System	Actual	m	300			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415			

Outdoor system			RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9
System	Outdoor unit module 1			RWEYQ8T9	RWEYQ8T9	RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ12T9	RWEYQ14T9
	Outdoor unit module 2			RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ12T9	RWEYQ12T9	RWEYQ14T9	RWEYQ14T9
Capacity range			HP	16	18	20	22	24	26	28
Cooling capacity		35°CDB	kW	44,8	50,4	55,9	61,5	67	73,5	80
EER at nom. Capacity		35°CDB	kW	6,4	6,08	5,98	5,65	5,55	5,30	5,04
Heating capacity		6°CWB	kW	50	56,5	62,5	69	75	82,5	90
COP at nom. Capacity		6°CWB	kW	6,5	6,45	6,3	6,25	6,1	5,735	5,37

Outdoor system			RWEYQ	30T9	32T9	34T9	36T9	38T9	40T9	42T9
System	Outdoor unit module 1			RWEYQ8T9	RWEYQ8T9	RWEYQ8T9	RWEYQ12T9	RWEYQ12T9	RWEYQ12T9	RWEYQ14T9
	Outdoor unit module 2			RWEYQ10T9	RWEYQ12T9	RWEYQ12T9	RWEYQ12T9	RWEYQ12T9	RWEYQ14T9	RWEYQ14T9
	Outdoor unit module 3			RWEYQ12T9	RWEYQ12T9	RWEYQ14T9	RWEYQ12T9	RWEYQ14T9	RWEYQ14T9	RWEYQ14T9
Capacity range			HP	30	32	34	36	38	40	42
Cooling capacity		35°CDB	kW	83,9	89,4	95,9	100,5	107	113,5	120
EER at nom. Capacity		35°CDB	kW	5,9	5,83	5,66	5,55	5,38	5,21	5,04
Heating capacity		6°CWB	kW	94	100	107,5	112,5	120	127,5	135
COP at nom. Capacity		6°CWB	kW	6,33	6,23	5,99	6,1	5,85	5,61	5,37

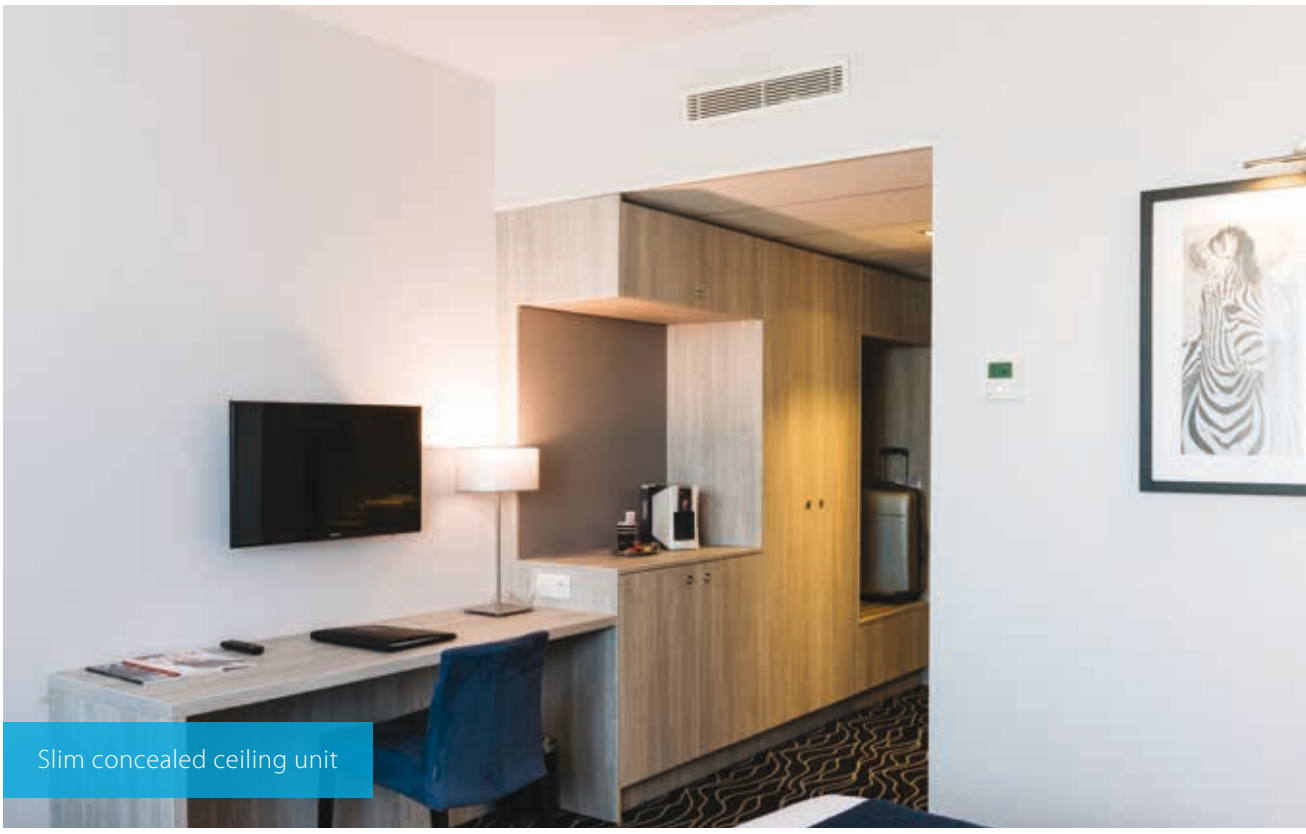
*Note: blue cells contain preliminary data

(1) in case of heat recovery

(2) in case of heat pump

Concealed ceiling unit with high ESP

Round flow cassette



Slim concealed ceiling unit

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 Indoor units

VRV indoor units

Stylish indoor units

Products overview VRV

Capacity class (kW)

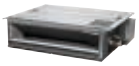
Type	Model		Product name		PG	15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximize comfort › Flexibility to suit every room layout › Lowest installation height in the market!	FXFQ-A		132		●	●	●	●	●	●		●	●	●			
	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling › Perfect integration in standard architectural ceiling tiles › Blend of iconic design and engineering excellence › Intelligent sensors save energy and maximize comfort › Small capacity unit developed for small or well-insulated rooms › Flexibility to suit every room layout	FXZQ-A		138	●	●	●	●	●	●								
	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		143		●	●	●	●	●	●		●		●			
	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		146			●	●	●		●							
Concealed ceiling	Small concealed ceiling unit	Designed for hotel rooms › Compact dimensions enable installation in narrow ceiling voids › Discretely concealed in the ceiling: only the grilles are visible › Flexible installation as the air suction direction can be altered from rear to bottom suction	FXDQ-M9		148		●	●											
	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		150	●	●	●	●	●	●	●			NEW Auto cleaning filter 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		158	●	●	●	●	●	●	●		●	●	●	●		
	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		168						●	●		●	●	●			
	Concealed ceiling unit with high ESP	ESP up to 270, ideal for extra large sized spaces › Only grilles are visible › Large capacity unit: up to 31.5 kW heating capacity	FXMQ-MB		168													●	●
Wall mounted	Wall mounted unit	For rooms with no false ceilings nor free floor space › Flat, stylish front panel is more easy to clean › Small capacity unit developted for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor › The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAQ-P		176	●	●	●	●	●	●	●							
Ceiling suspended	Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space › Ideal for comfortable air flow in wide rooms thanks to Coanda effect › Rooms with ceilings up to 3.8m can be heated or cooled very easily! › Can easily be installed in both new and refurbishment projects › Can even be mounted in corners or narrow spaces without any problem › Reduced energy consumption thanks to DC fan motor	FXHQ-A		179				●			●			●				
	UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space › Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! › Can easily be installed in both new and refurbishment projects › Flexibility to suit every room layout › Reduced energy consumption thanks to DC fan motor	FXUQ-A		183								●		●				
Floor standing	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		185		●	●	●	●	●	●							
	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		190		●	●	●	●	●	●							
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

Stylish indoor units overview

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-T**	**RXYQ-T(9)**	**RXYSCQ-TV1[3] RXYSQ-TV1[3] RXYSQ-TY1[3]**	**RWEYQ-T9(B)[3]**
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function[1])	FCQG-F					●		●	●				✓	✓
	Fully flat cassette	FFQ-C				●	●		●	●				✓	✓
Concealed ceiling	Small concealed ceiling unit	FDBQ-B				●								✓	✓
	Slim concealed ceiling unit	FDXM-F3				●	●		●	●	NEW Auto cleaning filter option			✓	✓
	Concealed ceiling unit with inverter-driven fan	FBQ-D					●		●	●				✓	✓
Wall mounted	Daikin Emura Wall mounted unit	FTXG-LW/LS			●	●	●		●			✓	✓	✓	✓
	Wall mounted unit	CTXS-K FTXS-K		●	●	●	●	●	●			✓	✓	✓	✓
	Wall mounted unit	FTXS-G								●	●	✓	✓	✓	✓
Ceiling suspended	Ceiling suspended unit	FHQ-CB					●		●	●				✓	✓
Floor standing	Nexura floor standing unit	FVXG-K				●	●		●			✓	✓	✓	✓
	Floor standing unit	FVXS-F				●	●		●			✓	✓	✓	✓
	Concealed floor standing unit	FNQ-A				●	●		●	●				✓	✓
	Flexi type unit	FLXS-B(9)				●	●		●	●		✓	✓	✓	✓

[1] Decoration panel BYCQ140DG or BYCQ140DGF + BRC1E53A/B/C 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.

Benefits overview VRV

We care		Inverter technology	In combination with inverter controlled outdoor units
		Home leave operation	During absence, indoor comfort levels can be maintained
		Fan only	The air conditioner can be used as fan, blowing air without cooling or heating
		Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance
		Floor and presence sensor	The presence sensor directs the air away from any person detected in the room. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor
Comfort		Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired
		Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood
		Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature
Air treatment		Air filter	Removes airborne dust particles to ensure a steady supply of clean air
Humidity control		Dry programme	Allows humidity levels to be reduced without variations in room temperature
Air flow		Ceiling soiling prevention	The air discharge of the indoor unit is specially designed to prevent air being blown against the ceiling to prevent ceiling stains
		Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution
		Fan speed steps	Multiple fan speeds to select,to optimize comfort levels
		Individual flap control	Individual flap control via the wired remote controller makes it simple to fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well
Remote control & timer		Weekly timer	Timer can be set to start and stop operation anytime on a daily or weekly basis
		Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit
		Wired remote control	Wired remote control to remotely control your indoor unit
		Centralised control	Centralised control to to control several indoor units from one single point
		Multi zoning NEW	Allows up to 6 individual climate zones with one indoor unit
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 building or for servicing purposes

Ceiling mounted cassette units				Concealed ceiling units					Wall mounted unit	Ceiling suspended units		Floor standing units	
FXFQ-A	**FXZQ-A**	**FXCQ-A**	**FXKQ-MA**	**FXDQ-M9**	**FXDQ-A3**	**FXSQ-A**	**FXMQ-P7**	**FXMQ-MB**	**FXAQ-P**	**FXHQ-A**	**FXUQ-A**	**FXNQ-A**	**FXLQ-P**
													
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●					NEW ●								
●	●												
●	●		●								●		
●	●	●			●	●		●					
●	●	●	●	●	●	●	●	●	●	●	●	●	●
G1 F8 (optional)	G1	●	G1	●	●	G1 F8 (optional)	●	G1 F8 (optional)	●	G1	G1	G1	G1
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●										
●	●	●	●						●		●		
3	3	3	2	2	3	3	3	2	2	3	3	2	2
●	●										●		
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
					NEW ●	NEW ●							
●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●
Standard	Standard	Standard	Standard		Standard	Standard	Standard	Optional	Optional	Optional	Standard		
●	●	(●)	(●)	●	●	●	●	(●)	●	(●)	(●)	●	●

FCQG-F/FCQHG-F/FXFQ-A

Auto cleaning cassette

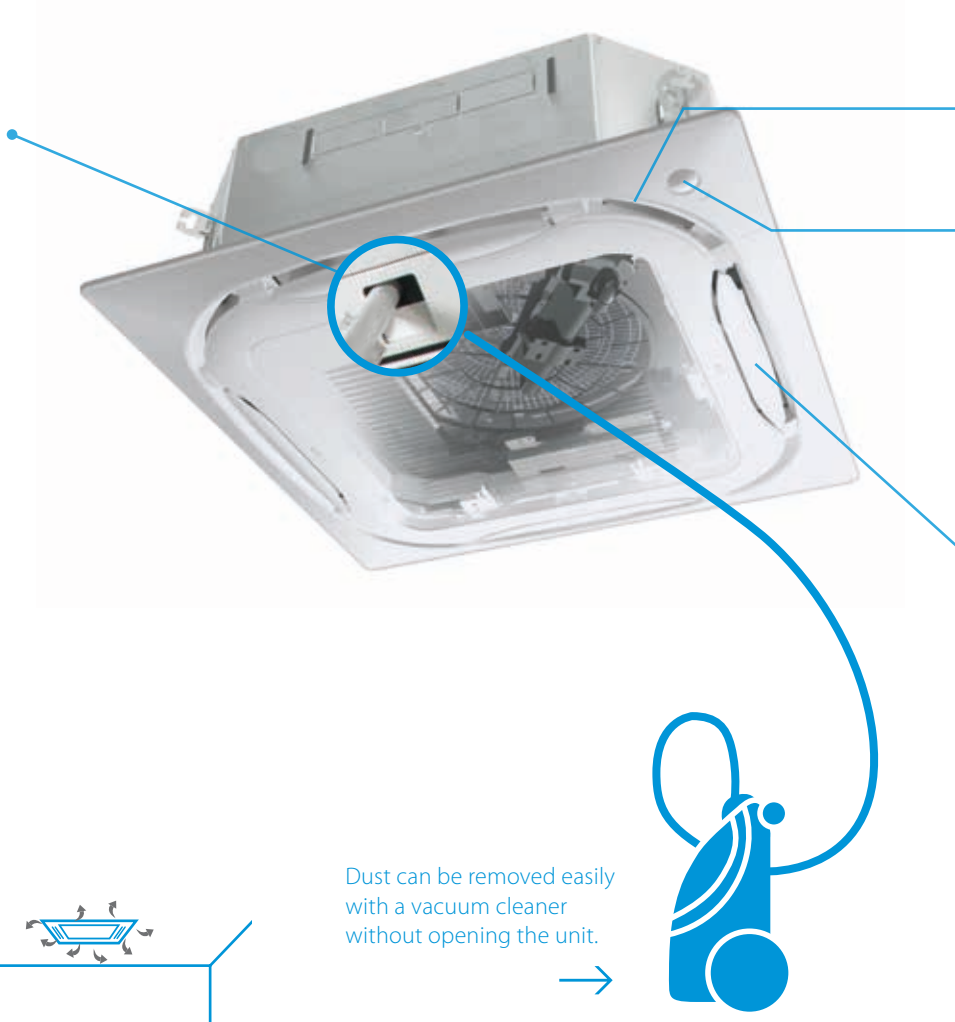
More energy efficient and user-friendly than any other cassette

› Running costs are reduced by 50% compared with standard solutions
› Automatic filter cleaning.
› Less time is required to maintain the filter: dust can be removed easily with a vacuum cleaner without opening the unit.

Finer mesh panel

› For dust prone areas (i.e. clothing and book shops) a finer mesh panel (BYCQ140DGF) ensures consistent performance and optimum air distribution
› Clean ceilings ensured thanks to fine mesh and clean filter

BYCQ140DG	BYCQ140DGF
Auto-cleaning panel	auto-cleaning panel with fine mesh filter
White with grey louvers	White with grey louvers



Dust can be removed easily with a vacuum cleaner without opening the unit.

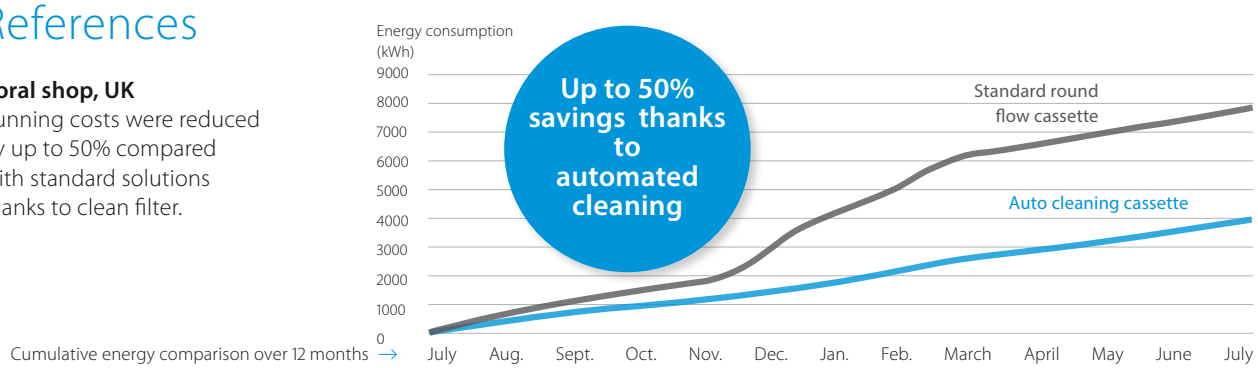
Auto-cleaning cassette for maintaining the optimum store atmosphere

Air distribution with a clean filter

Air distribution with a dusty filter

References

Coral shop, UK
Running costs were reduced by up to 50% compared with standard solutions thanks to clean filter.



Why choose a round flow cassette?

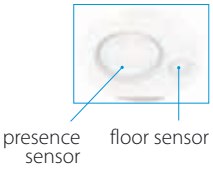
- 360° air discharge for optimum comfort
- Intelligent sensors for maximum efficiency

360° air discharge for improved comfort

› Industry-first and proven design.

Intelligent sensors improve efficiency and comfort even more

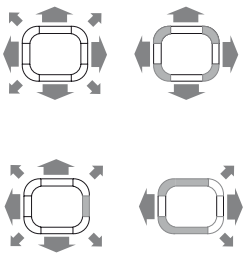
› The presence sensor adjusts the set point if no one is detected in the room leading to up to 27% savings. It also automatically directs air flow away from any person to avoid draught.

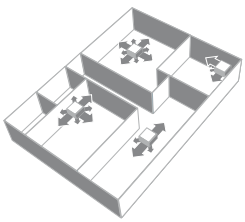


› The infrared floor sensor detects the average floor temperature and ensures even temperature distribution between ceiling and floor to prevent cold feet.

Flexible installation

› Flaps can be individually controlled or closed using the wired remote control, to suit room configuration. Optional closure kits are also available.





Benefits for the installer

› Product with unique functions in this market.
› Less time needed for onsite maintenance.
› Use the controller to individually open or close any of the four flaps to easily adapt to a changing room layout.
› Easy set-up of the sensor option to improve comfort and save energy.

Benefits for the consultant

› Product with unique functions in this market.
› Designed for use in all types and sizes of commercial offices and retail environments.
› Ideal product for improving BREEAM score/EPBD in combination with Sky Air Seasonal Smart or VRV IV heat pump units.

Benefits for the end user

› Designed for use in all types and sizes of commercial offices and retail environments.
› Perfect environment conditions: no more draughts or cold feet.
› Save up to 50% on running costs with the auto-cleaning panel, which also facilitates maintenance.
› Your customers can save up to 27% on their energy bills thanks to the sensor option.
› Flexible use of space thanks to individual flap control.

Marketing tools

› Visit the website: www.daikineurope.com/minisite/round-flow-cassette/

www.youtube.com/DaikinEurope

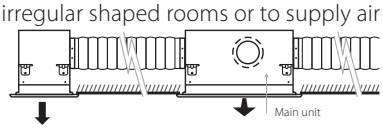
AUTO CLEANING PANEL WITH FINE MESH FILTER, IDEAL FOR CLOTHING SHOPS

ROUND FLOW

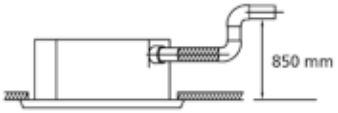
Round flow cassette

360° air discharge for optimum efficiency and comfort

- Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications e.g. clothing shops)
- 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!
- Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or auto cleaning panel
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Optional fresh air intake
- Lowest installation height in the market: 214mm for class 20-63
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



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



FXFQ20-63A

BRC1E53A-B-C

BRC7FA532F

Indoor unit			FXFQ	20A	25A	32A	40A	50A	63A	80A	100A	125A
Cooling capacity	Nom.		kW	2,2	2,8	3,6	4,5	5,6	7,1	9,0	11,2	14,0
Heating capacity	Nom.		kW	2,5	3,2	4,0	5,0	6,3	8,0	10,0	12,5	16,0
Power input - 50Hz	Cooling	Nom.	kW	0,038				0,053	0,061	0,092	0,115	0,186
	Heating	Nom.	kW	0,038				0,053	0,061	0,092	0,115	0,186
Dimensions	Unit	Height	mm	204						246		288
		Width	mm	840								
		Depth	mm	840								
Weight	Unit		kg	19			20	21		24		26
Casing	Material			Galvanised steel plate								
Decoration panel	Model			BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter								
	Colour			Pure White (RAL 9010)								
	Dimensions	HeightxWidthxDepth	mm	130x950x950								
	Weight		kg	10,3								
Decoration panel 2	Model			BYCQ140D7GW1 - auto cleaning panel								
	Colour			Pure White (RAL 9010)								
	Dimensions	HeightxWidthxDepth	mm	130x950x950								
	Weight		kg	10,3								
Decoration panel 3	Model			BYCQ140D7W1W - full white								
	Colour			Pure White (RAL 9010)								
	Dimensions	HeightxWidthxDepth	mm	50x950x950								
	Weight		kg	5,4								
Decoration panel 4	Model			BYCQ140D7W1 - white with grey louvers								
	Colour			Pure White (RAL 9010)								
	Dimensions	HeightxWidthxDepth	mm	50x950x950								
	Weight		kg	5,4								
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m^3/min	12,5/10,6/8,8			13,6/11,6/9,5	15,0/12,8/10,5	16,5/13,5/10,5	22,8/17,6/12,4	26,5/19,5/12,4	33,0/26,5/19,9
	Heating	High/Nom./Low	m^3/min	12,5/10,6/8,8			13,6/11,6/9,5	15,0/12,8/10,5	16,5/13,5/10,5	22,8/17,6/12,4	26,5/19,5/12,4	33,0/26,5/19,9
Air filter	Type			Resin net with mold resistance								
Sound power level	Cooling	High/Nom.	dBA	49/-			51/-		53/-	55/-	60/-	61/-
Sound pressure level	Cooling	High/Nom./Low	dBA	31/29/28			33/31/29		35/33/30	38/34/30	43/37/30	45/41/36
	Heating	High/Nom./Low	dBA	31/29/28			33/31/29		35/33/30	38/34/30	43/37/30	45/41/36
Refrigerant	Type			R-410A								
	GWP			2.087,5								
Piping connections	Liquid	OD	mm	6,35					9,52			
	Gas	OD	mm	12,7					15,9			
	Drain			VP25 (O.D. 32 / I.D. 25)								
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220								
Current - 50Hz	Maximum fuse amps (MFA)		A	16								
Control systems	Infrared remote control			BRC7FA532F								
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52								
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)								

(1) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.
(2) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

Fully Flat Cassette

Design & Genius in one

Why choose fully flat cassette

- Unique design in the market that integrates fully flat into the ceiling
- Advanced technology and top efficiency combined
- Most quiet cassette available on the market

FFQ-C / FXZQ-A

Choice between grey or white panel

universal design award 2014

GERMAN DESIGN AWARD SPECIAL 2016

Benefits for the installer

› Unique product in the market!
› Most quiet 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 in any modern office interior design
› Ideal product to improve BREEAM score/EPBD in combination with Sky Air Seasonal Smart (FFQ-C) or VRV IV heat pump units (FXZQ-A).

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.

Unique design

› Designed by a European design office to fully meet the European taste.
› Fully flat into the ceiling, leaving only 8mm.
› Fully integrated in the one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles.
› Decoration panel available in 2 colours (white and white-silver).

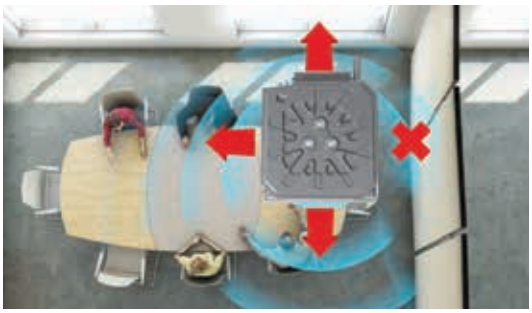
Differentiating in technology

Optional presence sensor

› When the room is empty, it can adjust the set temperature or switch off the unit – saving energy.
› When people are detected, the direction of the airflow is adapted to avoid cold draughts being directed towards occupants.

Optional floor sensor

› Detects the temperature difference and re-directs the airflow to ensure even temperature distribution.



Top efficiency

› Seasonal labels up to A++*
› When the room is empty, the sensor option can adjust the set temperature or switch off the unit – saving up to 27% energy.

* for FFQ25,35C in combination with RXS25,35L3

Other benefits

› Individual flap control: easily control one or more flaps via the wired remote controller (BRC1E*) when rearranging the room. When fully closing or blocking the flaps, the option "Sealing member of air discharge outlet" is needed.
› Most silent cassette in the market (25dBA), important for office applications.

Marketing tools

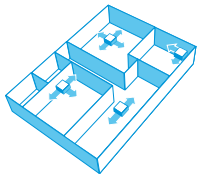
› www.daikineurope.com/fullyflat
› www.youtube.com/DaikinEurope


FULLY FLAT CASSETTE INTEGRATES
FULLY FLAT INTO THE CEILING

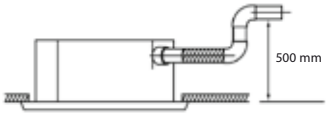
Fully flat cassette

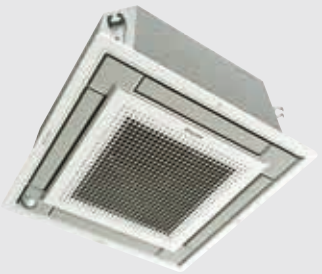
Unique design in the market that integrates fully flat into the ceiling

- 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!



- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Optional fresh air intake
- Standard drain pump with 630mm lift increases flexibility and installation speed





FXZQ-A

BRC1E53A-B-C BRC7F530W-S

Indoor unit				FXZQ	15A	20A	25A	32A	40A	50A
Cooling capacity	Nom.			kW	1,7	2,2	2,8	3,6	4,5	5,6
Heating capacity	Nom.			kW	1,9	2,5	3,2	4,0	5,0	6,3
Power input - 50Hz	Cooling	Nom.		kW	0,043			0,045	0,059	0,092
	Heating	Nom.		kW	0,036			0,038	0,053	0,086
Dimensions	Unit	Height		mm	260					
		Width		mm	575					
		Depth		mm	575					
Weight	Unit			kg	15,5			16,5		18,5
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYFQ60CW					
	Colour				White (N9,5)					
	Dimensions	HeightxWidthxDepth		mm	46x620x620					
	Weight			kg	2,8					
Decoration panel 2	Model				BYFQ60CS					
	Colour				White (N9,5) + Silver					
	Dimensions	HeightxWidthxDepth		mm	46x620x620					
	Weight			kg	2,8					
Decoration panel 3	Model				BYFQ60B3W1					
	Colour				White (RAL9010)					
	Dimensions	HeightxWidthxDepth		mm	55x700x700					
	Weight			kg	2,7					
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low		m^3/min	8,5/7/6,5	8,7/7,5/6,5	9/8/6,5	10/8,5/7	11,5/9,5/8	14,5/12,5/10
	Heating	High/Nom./Low		m^3/min	8,5/7/6,5	8,7/7,5/6,5	9/8/6,5	10/8,5/7	11,5/9,5/8	14,5/12,5/10
Air filter	Type				Resin net with mold resistance					
Sound power level	Cooling	High/Nom.		dBA	49/-		50/-	51/-	54/-	60/-
Sound pressure level	Cooling	High/Nom./Low		dBA	31,5/28/25,5	32/29,5/25,5	33/30/25,5	33,5/30/26	37/32/28	43/40/33
	Heating	High/Nom./Low		dBA	31,5/28/25,5	32/29,5/25,5	33/30/25,5	33,5/30/26	37/32/28	43/40/33
Refrigerant	Type				R-410A					
	GWP				2.087,5					
Piping connections	Liquid	OD		mm	6,35					
	Gas	OD		mm	12,7					
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control				BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530W (standard panel)					
	Wired remote control				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
	Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

(1) Dimensions do not include control box

2-way blow ceiling mounted cassette

FXCQ20_40A

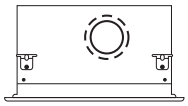
BRC1E53A-B-C

BRC7C52

Thin, lightweight design installs easily in narrow corridors

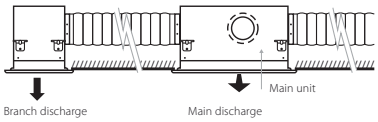
- Depth of all units is 620mm, ideal for narrow spaces
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing

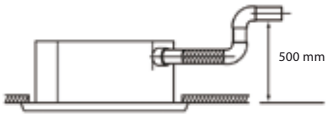


* Brings in up to 10% of fresh air into the room

- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- Maintenance operations can be performed by removing the front panel
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



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



Indoor unit			FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Nom.		kW	2,2	2,8	3,6	4,5	5,6	7,1	9,0	14,0
Heating capacity	Nom.		kW	2,5	3,2	4,0	5,0	6,3	8,0	10,0	16,0
Power input - 50Hz	Cooling	Nom.	kW	0,031	0,039		0,041	0,059	0,063	0,090	0,149
	Heating	Nom.	kW	0,028	0,035		0,037	0,056	0,060	0,086	0,146
Dimensions	Unit	Height	mm	305							
		Width	mm	775				990		1,445	
		Depth	mm	620							
Weight	Unit		kg	19				22	25	33	38
Casing	Material			Galvanised steel plate							
Decoration panel	Model			BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1	
	Colour			Fresh white (6,5Y 9,5/0,5)							
	Dimensions	HeightxWidthxDepth	mm	55x1.070x700				55x1.285x700		55x1.740x700	
	Weight		kg	10				11		13	
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m^3/min	10,5/9/7,5	11,5/9,5/8		12/10,5/8,5	15/13/10,5	16/14/11,5	26/22,5/18,5	32/27,5/22,5
Air filter	Type			Resin net with mold resistance							
Sound power level	Cooling	Nom.	dBA	-							
Sound pressure level	Cooling	High/Nom./Low	dBA	32,0/30,0/28,0	34,0/31,0/29,0	34,0/32,0/30,0	36,0/33,0/31,0	37,0/35,0/31,0	39,0/37,0/32,0	42,0/38,0/33,0	46,0/42,0/38,0
	Heating	High/Nom./Low	dBA	32,0/30,0/28,0	34,0/31,0/29,0	34,0/32,0/30,0	36,0/33,0/31,0	37,0/35,0/31,0	39,0/37,0/32,0	42,0/38,0/33,0	46,0/42,0/38,0
Refrigerant	Type			R-410A							
	GWP			2.087,5							
Piping connections	Liquid	OD	mm	6,35					9,52		
	Gas	OD	mm	12,7					15,9		
	Drain			VP25 (O.D. 32 / I.D. 25)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240							
Current - 50Hz	Maximum fuse amps (MFA)		A	16							
Control systems	Infrared remote control			BRC7C52							
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)							

Ceiling mounted corner cassette

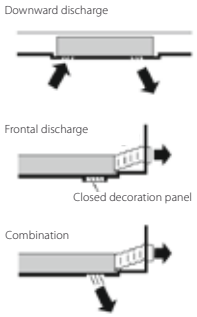
1-way blow unit for corner installation

› 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

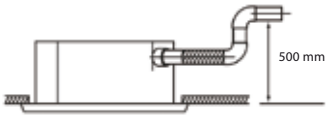
FXKQ-MA

BRC1E53A-B-C

BRC4C61



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

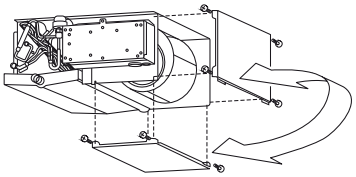


Indoor unit				FXKQ	25MA	32MA	40MA	63MA
Cooling capacity	Nom.			kW	2,8	3,6	4,5	7,10
Heating capacity	Nom.			kW	3,2	4,0	5,0	8,00
Power input - 50Hz	Cooling	Nom.		kW	0,066		0,076	0,105
	Heating	Nom.		kW	0,046		0,056	0,085
Dimensions	Unit	Height		mm	215			
		Width		mm	1.110			1.310
		Depth		mm	710			
Weight	Unit			kg	31			34
Casing	Material				Galvanised steel plate			
Decoration panel	Model				BYK45FJW1			BYK71FJW1
	Colour				White			
	Dimensions	HeightxWidthxDepth		mm	70x1.240x800			70x1.440x800
	Weight			kg	8,5			9,5
Fan-Air flow rate - 50Hz	Cooling	High/Low		m^3/min	11/9		13/10	18/15
Air filter	Type				Resin net with mold resistance			
Sound power level	Cooling	Nom.		dBA	-			
Sound pressure level	Cooling	High/Low		dBA	38,0/33,0		40,0/34,0	42,0/37,0
Refrigerant	Type				R-410A			
	GWP				2.087,5			
Piping connections	Liquid	OD		mm	6,35			9,52
	Gas	OD		mm	12,7			15,9
	Drain				VP25 (O.D. 32 / I.D. 25)			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)			A	15			
Control systems	Infrared remote control				BRC4C61			
	Wired remote control				BRC1D52 / BRC1E53A/B/C			
	Simplified wired remote control for hotel applications				BRC2E53C (heat recovery type) / BRC3E53C (heat pump type)			

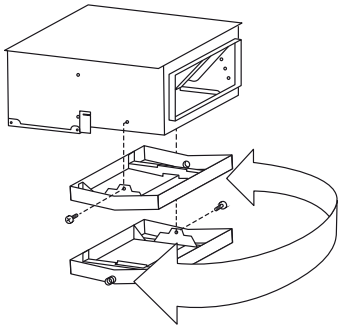
Small concealed ceiling unit

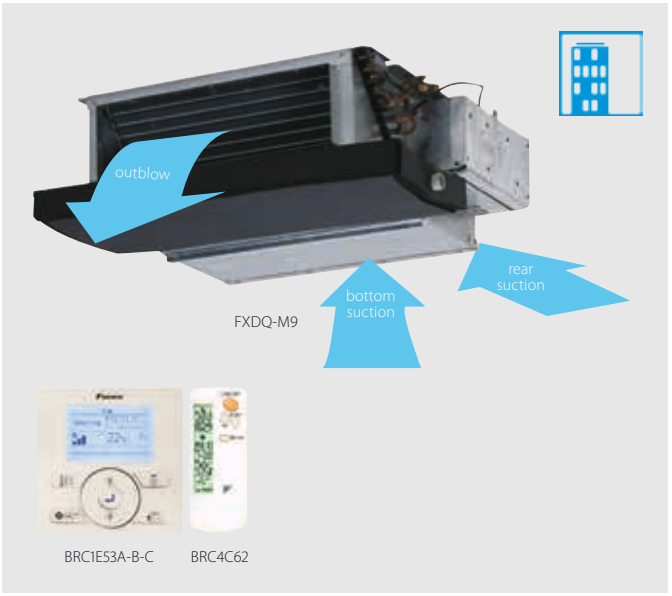
Designed for hotel applications

- Compact unit (230mm high & 652mm deep), can easily be mounted in narrow ceiling voids
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Flexible installation, as the air suction direction can be altered from rear to bottom suction



- For easy mounting, the drain pan can be located to the left or right of the unit





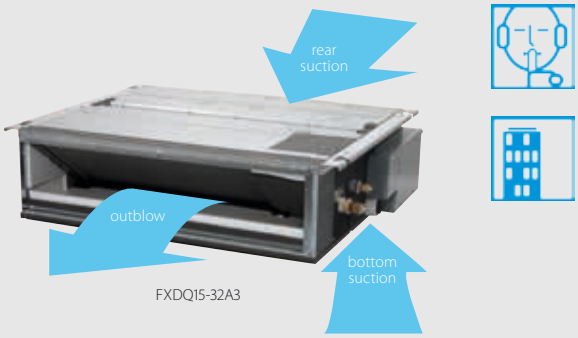
BRC1E53A-B-C BRC4C62

Indoor unit				FXDQ	20M9	25M9
Cooling capacity	Nom.			kW	2,2	2,8
Heating capacity	Nom.			kW	2,5	3,2
Power input - 50Hz	Cooling	Nom.		kW	0,050	
	Heating	Nom.		kW	0,050	
Required ceiling void >				mm	250	
Dimensions	Unit	Height		mm	230	
		Width		mm	502	
		Depth		mm	652	
Weight	Unit			kg	17	
Casing	Colour				Unpainted	
	Material				Galvanised steel	
Fan-Air flow rate - 50Hz	Cooling	High/Low		m^3/min	6,7/5,2	7,4/5,8
	Heating	High/Low		m^3/min	6,7/5,2	7,4/5,8
Air filter	Type				Resin net with mold resistance	
Sound power level	Cooling	Nom.		dBA	50	
Sound pressure level	Cooling	High/Low		dBA	37/32	
	Heating	High/Low		dBA	37/32	
Refrigerant	Type				R-410A	
	GWP				2.087,5	
Piping connections	Liquid	OD		mm	6,35	
	Gas	OD		mm	12,7	
	Drain				I.D. 21,6, O.D. 27,2	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	
Control systems	Infrared remote control				BRC4C62	
	Wired remote control				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	
	Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)	

Slim concealed ceiling unit

Slim design for flexible installation

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

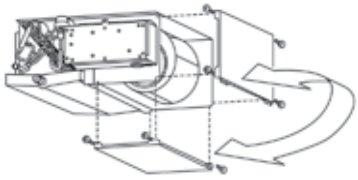


FXDQ15-32A3

BRC1E53A-B-C

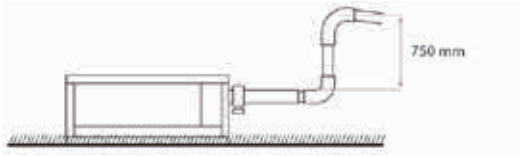
BRC4C65

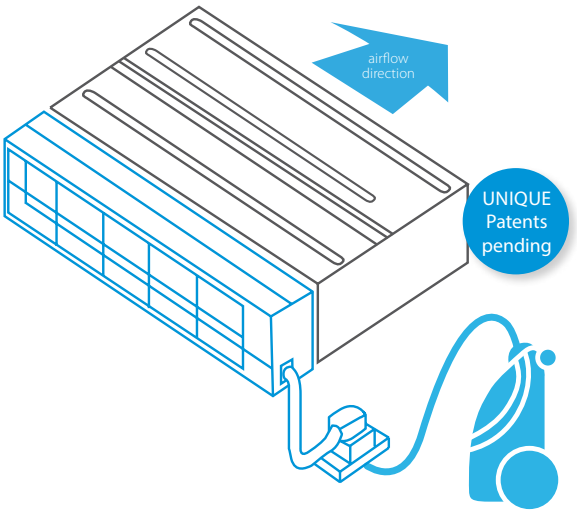
- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Reduced energy consumption thanks to specially developed DC fan motor
- Flexible installation, as the air suction direction can be altered from rear to bottom suction



NEW
Auto cleaning filter option

- Standard drain pump with 750mm lift increases flexibility and installation speed





UNIQUE
Patents pending

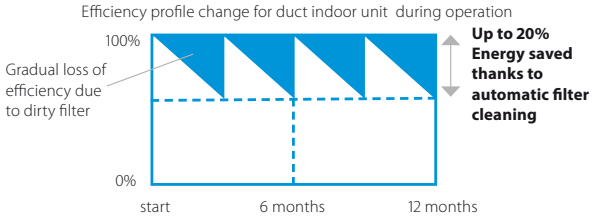
Indoor unit			FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3
Cooling capacity	Nom.		kW	1,7	2,2	2,8	3,6	4,5	5,6	7,1
Heating capacity	Nom.		kW	1,9	2,5	3,2	4,0	5,0	6,3	8,0
Power input - 50Hz	Cooling	Nom.	kW	0,071				0,078	0,099	0,110
	Heating	Nom.	kW	0,068				0,075	0,096	0,107
Required ceiling void >			mm	240						
Dimensions	Unit	Height	mm	200						
		Width	mm	750				950		1.150
		Depth	mm	620						
Weight	Unit		kg	22				26		29
Casing	Colour			Galvanised steel / Non painted.						
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m^3/min	7,5/7,0/6,4	8,0/7,2/6,4			10,5/9,5/8,5	12,5/11,0/10,0	16,5/14,5/13,0
Fan-External static pressure - 50Hz	High/Nom.		Pa	30/10				44/15		
Air filter	Type			Removable / washable / mildew proof						
Sound power level	Cooling	Nom.	dBA	50	51			52	53	54
Sound pressure level	Cooling	High/Nom./Low	dBA	32/31/27	33/31/27			34/32/28	35/33/29	36/34/30
Refrigerant	Type			R-410A						
	GWP			2.087,5						
Piping connections	Liquid	OD	mm	6,35						9,52
	Gas	OD	mm	12,7						15,9
	Drain			VP20 (I.D. 20/O.D. 26)						
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220						
Current - 50Hz	Maximum fuse amps (MFA)		A	16						
Control systems	Infrared remote control			BRC4C65						
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						

Auto cleaning filter for concealed ceiling units

A unique success story repeated

Reduce running costs

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



Improved indoor air quality

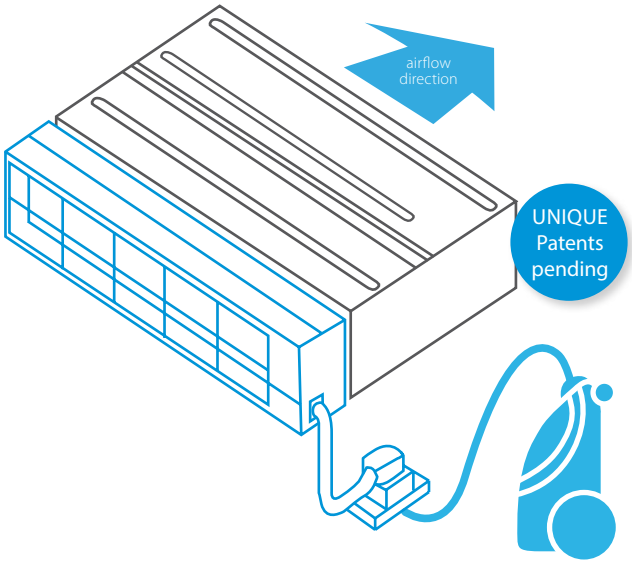
› Optimum airflow eliminates draft and insulates sound

Minimal time required for filter cleaning

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

Unique technology

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



How does it work?

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

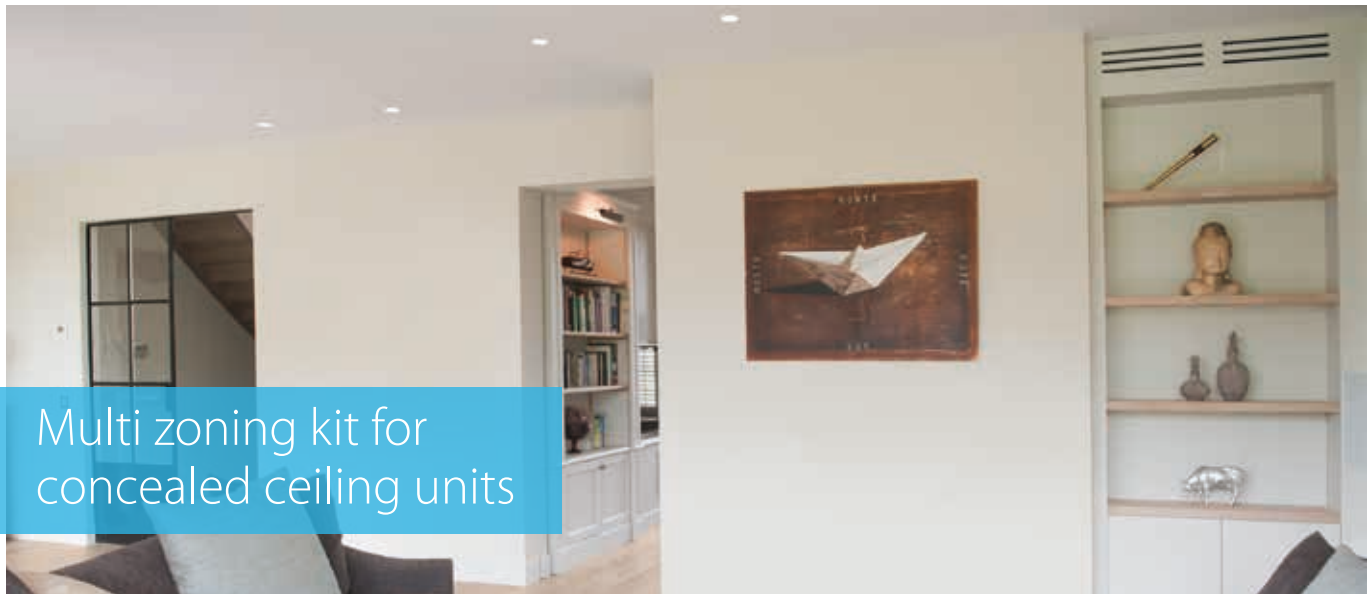
Combination table

	Split / Sky Air				VRV						
	FDXM-F3				FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

*Note: blue cells combination to be confirmed

Specifications

	BAE20A62	BAE20A82	BAE20A102
Heigth (mm)	212		
Width (mm)	764	964	1164
Width (mm) (incl. hanger bracket)	984	1094	1294
Depth (mm)	201		

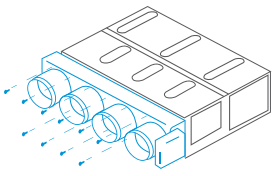


Multi zoning kit for concealed ceiling units

Increase flexiblity: heat or cool multiple rooms with one indoor unit

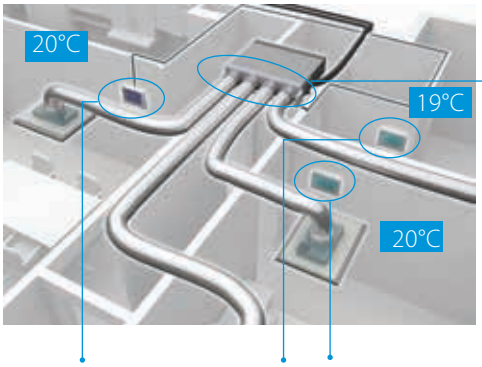
The zoning kit increases the flexibility of Split, Sky Air and VRV system applications by allowing multiple individually-controlled climate zones to be served by one indoor unit

- Increases comfort levels by allowing more individual zone control
  - Up to 8 individual zones can be served thanks to separate modulating dampers
  - Individual thermostat for room-by-room or zone-by-zone control
- Eco-adapt reduces the power consumption thanks to use dynamic setpoint temperatures
- Automatic air flow adjustment according to the demand
- Easy to install, integrates with the Daikin indoor units and system controls
- Promote the all in one package for the multi-zoning
- Time saving as plenum comes fully pre-assembled with dampers, and control boards
- Reduces the amount of refrigerant required in the installation



Plug and play plenum

How does it work?



Zoning box: fully pre-assembled plenum with dampers etc.

Individual zone thermostats

Blueface - Airzone Main Thermostat

- Color graphic interface for controlling zones
- Wired communication

Airzone Zone Thermostat

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

Airzone Zone Thermostat

- Thermostat with buttons for controlling the temperature
- Radio communication

Connectable to: (preliminary)

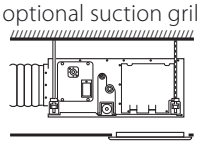
- FDXM-F3
- FBQ-D
- ADEQ-C
- FXDQ-A3
- FXSQ-A

Concealed ceiling unit with medium ESP

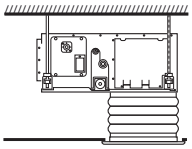
Slimmest yet most powerful medium static pressure unit on the market

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

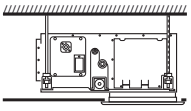
- Whisper quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the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



For free use into a false ceiling

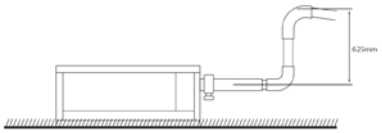


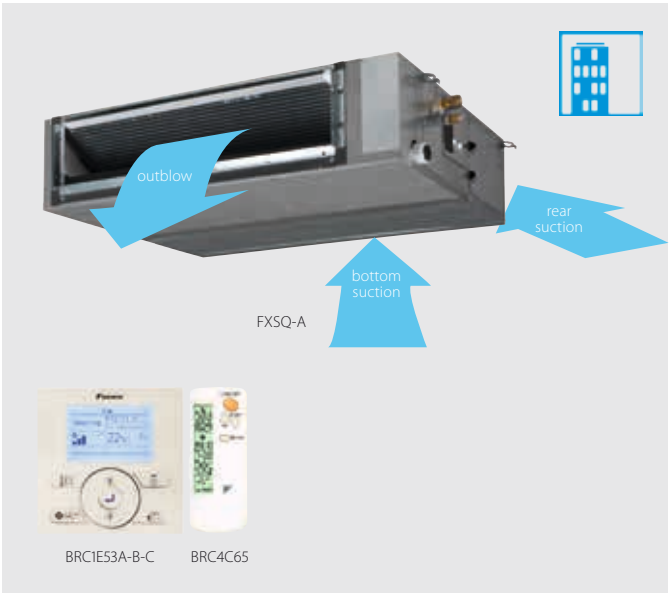
For connecting onto a suction canvas (not supplied by Daikin)



For direct connection to Daikin panel (via EKBYBSD kit)

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





BRC1E53A-B-C

BRC4C65

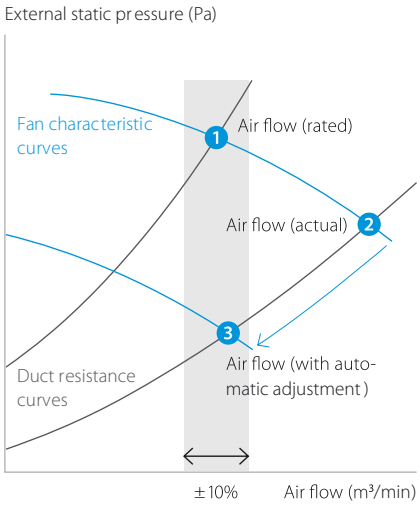
Automatic Airflow Adjustment function

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

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance → the real air flow may be much lower or higher than nominal , leading to a lack of capacity or uncomfortable air temperature

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically(10 or more fan curves are available on every model), making installation much faster



Indoor unit			FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Nom.		kW	1,7	2,2	2,8	3,6	4,5	5,6	7,1	9,0	11,2	14,0	16,0
Heating capacity	Nom.		kW	1,9	2,5	3,2	4,0	5,0	6,3	8,0	10,0	12,5	16,0	18,0
Power input - 50Hz	Cooling	Nom.	kW	0,041			0,045	0,092	0,095		0,121	0,157	0,214	0,243
	Heating	Nom.	kW	0,038			0,042	0,089	0,092		0,118	0,154	0,211	0,240
Dimensions	Unit	Height	mm	245										
		Width	mm	550				700		1.000		1.400		1.550
		Depth	mm	800										
Weight	Unit		kg	23,5			24	28,5	29	35,5	36,5	46	47	51
Casing	Colour			Not painted (galvanised)										
	Material			Galvanised steel plate										
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m^3/min	8,7/7,5/6,5	9/7,5/6,5		9,5/8/7,0	15/12,5/11	15,2/12,5/11	21,0/18/15	23/19,5/16,0	32/27/23	36/31.5/26	39/34/28
	Heating	High/Nom./Low	m^3/min	8,7/7,5/6,5	9/7,5/6,5		9,5/8/7	15/12,5/11	15,2/12,5/11	21/18/15	23/19,5/16,0	32/27/23	36/31.5/26	39/34/28
Fan-External static pressure - 50Hz	High/Nom.		Pa	150/30							150/40		150/50	
Air filter	Type			Resin net with mold resistance										
Sound power level	Cooling	Nom.	dBA	54			55	60		59	61		64	
Sound pressure level	Cooling	High/Nom./Low	dBA	29,5/28/25	30/28/25		31/29/26	35/32/29		33/30/27	35/32/29	36/34/31	39/36/33	41,5/38/34
	Heating	High/Nom./Low	dBA	31,5/29/26	32/29/26		33/30/27	37/34/29		35/32/28	37/34/30	37/34/31	40/37/33	42/38,5/34
Refrigerant	Type			R-410A										
	GWP			2.087,5										
Piping connections	Liquid	OD	mm	6,35						9,52				
	Gas	OD	mm	12,7						15,9				
	Drain			VP20 (I.D. 20/O.D. 26)										
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220										
Current - 50Hz	Maximum fuse amps (MFA)		A	16										
Control systems	Infrared remote control			BRC4C65										
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52										
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)										

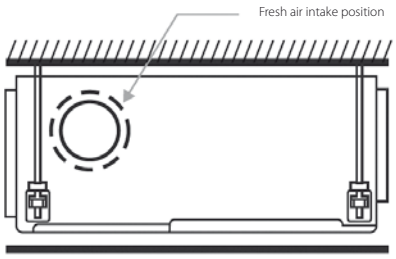
Concealed ceiling unit with high ESP

Ideal for large sized spaces

FXMQ-P7: ESP up to 200 Pa

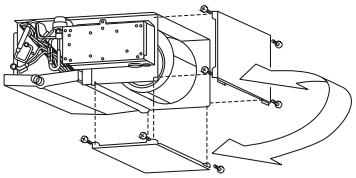
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- High external static pressure up to 200Pa facilitates extensive duct and grille network
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Reduced energy consumption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

Fresh air intake opening in casing

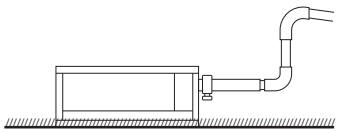


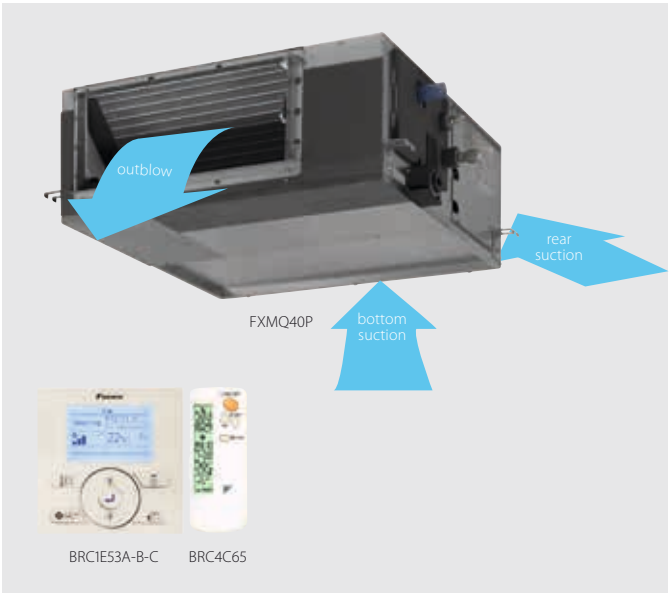
* Brings in up to 10% of fresh air into the room

- Flexible installation, as the air suction direction can be altered from rear to bottom suction



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





BRC1E53A-B-C BRC4C65

USP: FXMQ-MB: ESP up to 270

- High external static pressure up to 270Pa facilitates extensive duct and grille network
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Large capacity unit: up to 31.5 kW heating capacity
- Reduced energy consumption thanks to specially developed DC fan motor

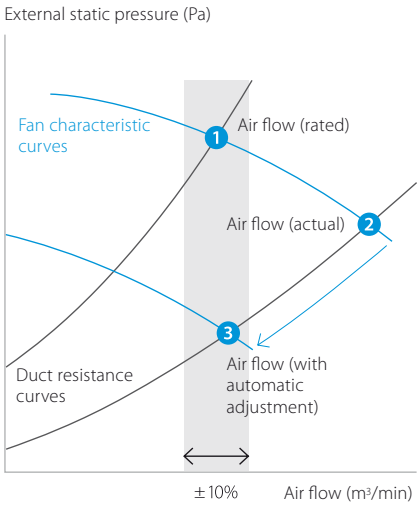
Automatic Airflow Adjustment function

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

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance → the real air flow may be much lower or higher than nominal , leading to a lack of capacity or uncomfortable air temperature

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically(10 or more fan curves are available on every model), making installation much faster



Indoor unit			FXMQ-P7/FXMQ-MB	50P7	63P7	80P7	100P7	125P7	200MB	250MB
Cooling capacity	Nom.		kW	5,6	7,1	9,0	11,2	14,0	22,4	28,0
Heating capacity	Nom.		kW	6,3	8,0	10,0	12,5	16,0	25,0	31,5
Power input - 50Hz	Cooling	Nom.	kW	0,110	0,120	0,171	0,176	0,241	0,895	1,185
	Heating	Nom.	kW	0,098	0,108	0,159	0,164	0,229	0,895	1,185
Required ceiling void >			mm	350					-	
Dimensions	Unit	Height	mm	300					470	
		Width	mm	1.000			1.400		1.380	
		Depth	mm	700					1.100	
Weight	Unit		kg	35			46		132	
Casing	Colour			Unpainted					-	
	Material			Galvanised steel plate						
Decoration panel	Model			BYBS71DJW1			BYBS125DJW1		-	
	Colour			White (10Y9/0,5)					-	
	Dimensions	HeightxWidthxDepth	mm	55x1.100x500			55x1.500x500		-x-x-	
	Weight		kg	4,5			6,5		-	
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m³/min	18/16,5/15	19,5/17,8/16	25/22,5/20	32/27,5/23	39/33,5/28	58/54,0/50	72/67,0/62
	Heating	High/Nom./Low	m³/min	18/16,5/15	19,5/17,8/16	25/22,5/20	32/27,5/23	39/33,5/28	-/-/-	
Fan-External static pressure - 50Hz	High/Nom.		Pa	200/100					270/160	270/170
Air filter	Type			Resin net with mold resistance					-	
Sound power level	Cooling	High/Nom.	dBA	61/-	64/-	67/-	65/-	70/-	-/-	
Sound pressure level	Cooling	High/Nom./Low	dBA	41/39/37	42/40/38	43/41/39		44/42/40	48/-/45	
	Heating	High/Nom./Low	dBA	41/39/37	42/40/38	43/41/39		44/42/40	-/-/-	
Refrigerant	Type			R-410A						
	GWP			2.087,5						
Piping connections	Liquid	OD	mm	6,35	9,52					
	Gas	OD	mm	12,7	15,9				19,1	22,2
	Drain			VP25 (I.D. 25/O.D. 32)					PS1B	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220					1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)		A	16						
Control systems	Infrared remote control			BRC4C65						
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						

Wall mounted unit

For rooms with no false ceilings nor free floor space

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Reduced energy consumption thanks to specially developed DC fan motor
- 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

FXAQ20-32P

BRC1E53A-B-C

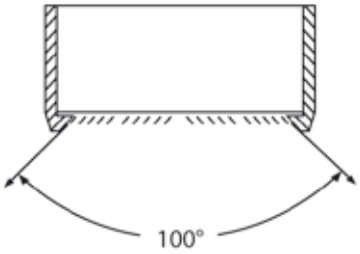
BRC7EB518

Indoor unit			FXAQ	15P	20P	25P	32P	40P	50P	63P
Cooling capacity	Nom.		kW	1,7	2,2	2,8	3,6	4,5	5,6	7,1
Heating capacity	Nom.		kW	1,9	2,5	3,2	4,0	5,0	6,3	8,0
Power input - 50Hz	Cooling	Nom.	kW	0,017	0,019	0,028	0,030	0,020	0,033	0,050
	Heating	Nom.	kW	0,025	0,029	0,034	0,035	0,020	0,039	0,060
Dimensions	Unit	Height	mm	290						
		Width	mm	795				1.050		
		Depth	mm	238						
Weight	Unit		kg	11				14		
Casing	Colour			White (3,0Y8,5/0,5)						
Fan-Air flow rate - 50Hz	Cooling	High/Low	m^3/min	7,0/4,5	7,5/4,5	8/5	8,5/5,5	12/9	15/12	19/14
Air filter	Type			Washable resin net						
Sound power level	Cooling	High/Nom.	dBA	52,0/-	53,0/-	54,0/-	55,5/-	57,0/-	60,0/-	65,0/-
Sound pressure level	Cooling	High/Low	dBA	34,0/29,0	35,0/29,0	36,0/29,0	37,5/29,0	39,0/34,0	42,0/36,0	47,0/39,0
Refrigerant	Type			R-410A						
	GWP			2.087,5						
Piping connections	Liquid	OD	mm	6,35						9,52
	Gas	OD	mm	12,7						15,9
	Drain			VP13 (I.D. 13/O.D. 18)						
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240						
Current - 50Hz	Maximum fuse amps (MFA)		A	16						
Control systems	Infrared remote control			BRC7EB518						
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						

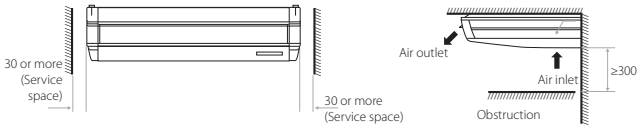
Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

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



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



› Optional fresh air intake
› Reduced energy consumption thanks to specially developed DC fan motor and drain pump
› Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

FXHQ63A

BRC1E53A-B-C

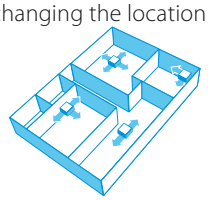
BRC7G53

Indoor unit				FXHQ	32A	63A	100A
Cooling capacity	Nom.			kW	3.6	7.1	11.2
Heating capacity	Nom.			kW	4.0	8.0	12.5
Power input - 50Hz	Cooling	Nom.		kW	0.107	0.111	0.237
	Heating	Nom.		kW	0.107	0.111	0.237
Dimensions	Unit	Height		mm		235	
		Width		mm	960	1,270	1,590
		Depth		mm		690	
Weight	Unit			kg	24	33	39
Casing	Colour					Fresh White	
	Material					Resin	
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low		m^3/min	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0
	Heating	High/Nom./Low		m^3/min	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0
Air filter	Type					Resin net with mold resistance	
Sound power level	Cooling	Nom.		dBA		-	
Sound pressure level	Cooling	High/Nom./Low		dBA	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0
	Heating	High/Nom./Low		dBA	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0
Refrigerant	Type					R-410A	
	GWP					2,087.5	
Piping connections	Liquid	OD		mm	6.35	9.52	
	Gas	OD		mm	12.7	15.9	
	Drain					VP20 (I.D. 20/O.D. 26)	
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A		16	
Control systems	Infrared remote control					BRC7G53	
	Wired remote control					BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	
	Simplified wired remote control for hotel applications					BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)	

4-way blow ceiling suspended unit

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

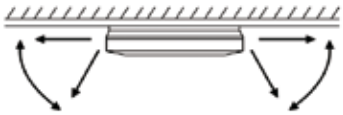
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!



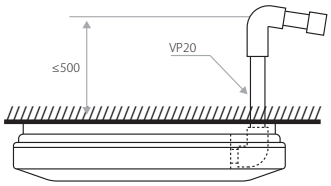
FXUQ-A

BRC1E53A-B-C BRC7C58

- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60°can be programmed via the remote control



- Standard drain pump with 500mm lift increases flexibility and installation speed

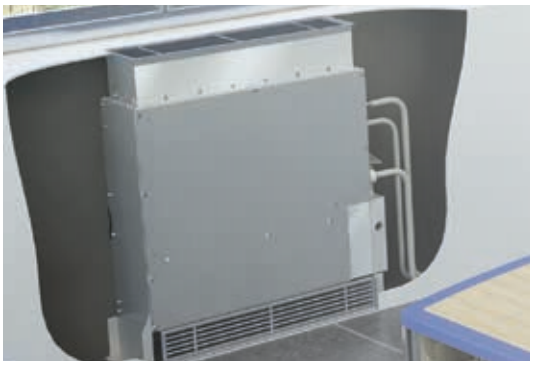


Indoor unit			FXUQ	71A	100A
Cooling capacity	Nom.		kW	8,0	11,2
Heating capacity	Nom.		kW	9,0	12,5
Power input - 50Hz	Cooling	Nom.	kW	0,090	0,200
	Heating	Nom.	kW	0,073	0,179
Dimensions	Unit	Height	mm	198	
		Width	mm	950	
		Depth	mm	950	
Weight	Unit		kg	26	27
Casing	Colour			Fresh White	
	Material			Resin	
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m^3/min	22,5/19,5/16,0	31,0/26,0/21,0
	Heating	High/Nom./Low	m^3/min	22,5/19,5/16,0	31,0/26,0/21,0
Air filter	Type			Resin net with mold resistance	
Sound power level	Cooling	Nom.	dBA	-	
Sound pressure level	Cooling	High/Nom./Low	dBA	40,0/38,0/36,0	47,0/44,0/40,0
	Heating	High/Nom./Low	dBA	40,0/38,0/36,0	47,0/44,0/40,0
Refrigerant	Type			R-410A	
	GWP			2.087,5	
Piping connections	Liquid	OD	mm	9,52	
	Gas	OD	mm	15,9	
	Drain			I.D. 20/O.D. 26	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220-230	
Current - 50Hz	Maximum fuse amps (MFA)		A	16	
Control systems	Infrared remote control			BRC7C58	
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)	

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

BRC1E53A-B-C

BRC4C65

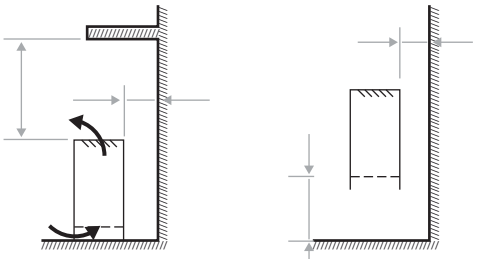
Indoor unit				FXNQ	20A	25A	32A	40A	50A	63A
Cooling capacity	Nom.			kW	2,2	2,8	3,6	4,5	5,6	7,1
Heating capacity	Nom.			kW	2,5	3,2	4,0	5,0	6,3	8,00
Power input - 50Hz	Cooling	Nom.		kW	0,071			0,078	0,099	0,110
	Heating	Nom.		kW	0,068			0,075	0,096	0,107
Dimensions	Unit	Height		mm	620 / 720 (1)					
		Width		mm	790			990		1.190
		Depth		mm	200					
Weight	Unit			kg	23,5			27,5		32
Casing	Colour				Unpainted					
	Material				Galvanised steel plate					
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low		m^3/min	8,0/7,2/6,4			10,5/9,5/8,5	12,5/11/10,0	16,5/14,5/13,0
	Heating	High/Nom./Low		m^3/min	8,0/7,2/6,4			10,5/9,5/8,5	12,5/11/10,0	16,5/14,5/13,0
Fan-External static pressure - 50Hz	High/Nom.			Pa	41/10		42/10	52/15	59/15	55/15
Air filter	Type				Resin net with mold resistance					
Sound power level	Cooling	High/Nom.		dBA	51/-			52/-	53/-	54/-
Sound pressure level	Cooling	High/Nom./Low		dBA	30/28,5/27			32/30/28	33/31/29	35/33/32
	Heating	High/Nom./Low		dBA	30/28,5/27			32/30/28	33/31/29	35/33/32
Refrigerant	Type				R-410A					
	GWP				2.087,5					
Piping connections	Liquid	OD		mm	6,35					9,52
	Gas	OD		mm	12,7					15,9
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
	Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

(1) Including installation legs

Floor standing unit

For perimeter zone air conditioning

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



Floor standing Wall mounted

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

- Wired remote control can easily be integrated in the unit

FXLQ20,25P

BRC1E53A-B-C

BRC4C65

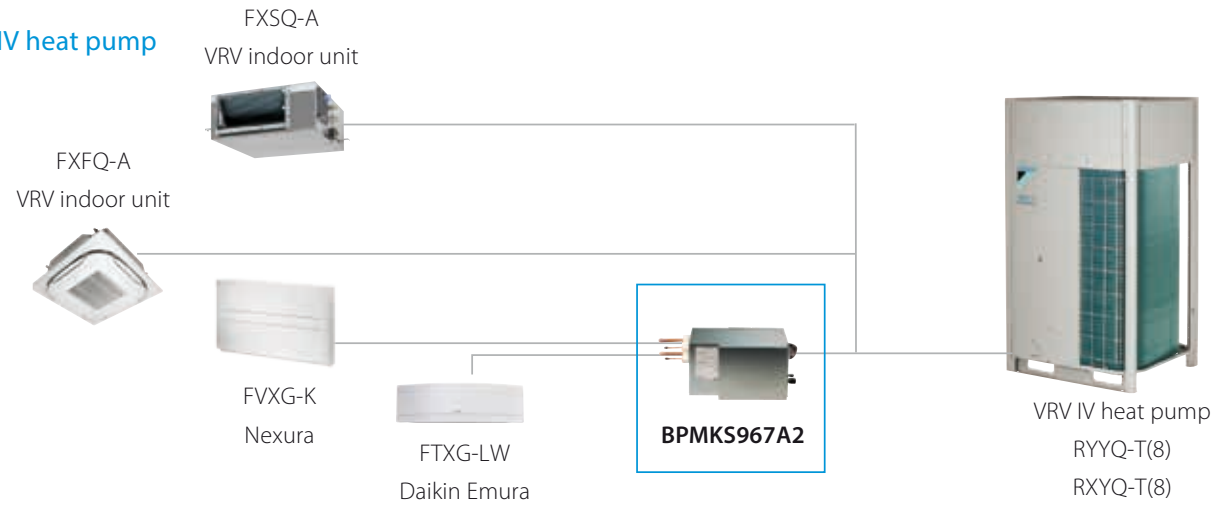
Indoor unit			FXLQ	20P	25P	32P	40P	50P	63P
Cooling capacity	Nom.		kW	2,2	2,8	3,6	4,5	5,6	7,1
Heating capacity	Nom.		kW	2,5	3,2	4,0	5,0	6,3	8,000
Power input - 50Hz	Cooling	Nom.	kW	0,049		0,090		0,110	
	Heating	Nom.	kW	0,049		0,090		0,110	
Dimensions	Unit	Height	mm	600					
		Width	mm	1.000		1.140		1.420	
		Depth	mm	232					
Weight	Unit		kg	27		32		38	
Casing	Colour			Fresh white (RAL9010) / Dark grey (RAL7011)					
Fan-Air flow rate - 50Hz	Cooling	High/Low	m^3/min	7/6		8/6	11/8,5	14/11	16/12
Air filter	Type			Resin net					
Sound power level	Cooling	Nom.	dBA	-					
Sound pressure level	Cooling	High/Low	dBA	35/32			38/33	39/34	40/35
	Heating	High/Low	dBA	35/32			38/33	39/34	40/35
Refrigerant	Type			R-410A					
	GWP			2.087,5					
Piping connections	Liquid	OD	mm	6,35					9,52
	Gas	OD	mm	12,7					15,9
	Drain			O.D. 21 (Vinyl chloride)					
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)		A	15					
Control systems	Infrared remote control			BRC4C65					
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

VRV heatpump combined with

stylish indoor units

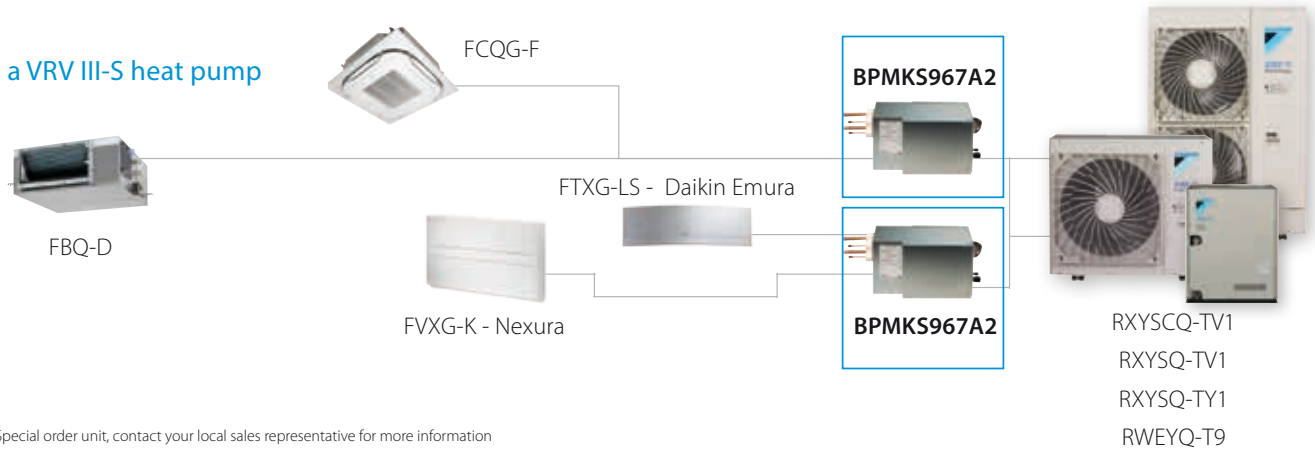
Combine VRV indoor units with stylish indoor units

on a VRV IV heat pump



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

on a VRV III-S heat pump



› * 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	BPMKS967A2
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity			14,2	20,8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

DAIKIN emura

Daikin Emura
Form. Function. Redesigned

GOOD DESIGN

German Design Award SPECIAL MENTION 2015

Focus Open 2014 Silver

reddot award 2014 winner

DESIGN AWARD 2015

Why choose Daikin Emura?

- Unique **design**. Designed in Europe for Europe.
- High seasonal **efficiency**, further improved by energy saving techniques like weekly timer and intelligent eye.
- Optimal **comfort** thanks to advanced technologies e.g. 2-area intelligent eye, whisper quiet operation and online controller.

Benefits

› A remarkable blend between iconic design and engineering excellence
› Stylish design in matt crystal white and silver
› Whisper quiet with sound levels down to 19 dBA
› Horizontal and vertical autoswing
› 2-area intelligent eye saves energy by reducing the set point if nobody is present and directs airflow away from people, thus avoiding cold draught
› Weekly timer
› Online controller:
Always in control no matter where you are

Wall mounted unit

Design at its best, delivering superior efficiency and comfort

- Remarkable blend of iconic design and engineering excellence with an elegant finish in silver and anthracite or in matt crystal white
- Daikin Emura has been awarded with Reddot design award 2014 by an international jury, thanks to its excellent design
- Designed to perfectly balance technological leadership and the beauty of aerodynamics
- Online controller (optional): 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!

FTXG-LW

FTXG-LS

ARC466A1

Indoor unit			FTXG	20LW	20LS	25LW	25LS	35LW	35LS	50LW	50LS
Dimensions	Unit	HeightxWidthxDepth	mm	303x998x212							
Weight	Unit		kg	12							
Air filter	Type			Removable / washable / mildew proof							
Fan - Air flow rate	Cooling	High/Low/Silent operation	m^3/min	8,9/4,4/2,6				10,9/4,8/2,9		10,9/6,8/3,6	
	Heating	High/Low/Silent operation	m^3/min	10,2/6,3/3,8		11,0/6,3/3,8		12,4/6,9/4,1		12,6/8,1/5,0	
Sound power level	Cooling		dBA	54				59		60	
	Heating		dBA	56				59		60	
Sound pressure level	Cooling	High/Low/Silent operation	dBA	38/25/19				45/26/20		46/35/25	
	Heating	High/Low/Silent operation	dBA	40/28/19		41/28/19		45/29/20		47/35/25	
Control systems	Infrared remote control			ARC466A1							
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240							

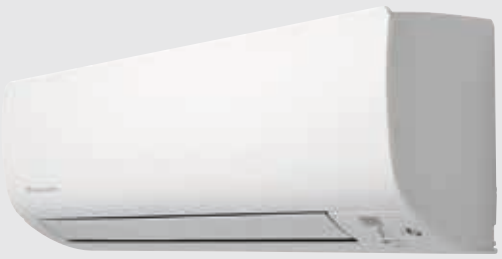
(1) EER/COP according to Eurovent 2012, for use outside EU only,

(2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Wall mounted unit

Discreet, modern design for optimal efficiency and comfort thanks to 2 area intelligent eye

- Discreet, modern design. Its smooth curve blends beautifully with the wall resulting in an unobtrusive presence that matches all interior décors.
- High quality matt crystal white finish
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- Ideal for installation in bedrooms (20,25 class) and larger or irregular shaped living areas (35,42,50 class)
- 2 area intelligent eye: 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 (FTXS35,42,50K)
- Online controller (optional): control your indoor from any location with an app, via your local network or internet



C/FTXS-K

ARC466A6

Indoor unit				FTXS	CTXS15K	CTXS35K	20K	25K	35K	42K	50K	60G	71G
Dimensions	Unit	HeightxWidthxDepth		mm	289x780x215				298x900x215			290x1.050x250	
Weight	Unit			kg	8				11			12	
Air filter	Type				Removable / washable / mildew proof								
Fan - Air flow rate	Cooling	High/Low/Silent operation	m^3/min		7,9/4,7/3,9	9,2/5,2/3,9	8,8/4,7/3,9	9,1/5,0/3,9	11,2/5,8/4,1	11,2/7,0/4,1	11,9/7,4/4,5	16,0/11,3/10,1	17,2/11,5/10,5
	Heating	High/Low/Silent operation	m^3/min		9,0/6,0/4,3	10,1/6,3/4,3	9,5/6,0/4,3	10,0/6,0/4,3	12,1/6,5/4,2	12,4/7,8/5,2	13,3/8,4/5,5	17,2/12,6/11,3	19,5/14,2/12,6
Sound power level	Cooling		dBA		55	59	58		59		60		63
	Heating		dBA		56	58			59		60	59	62
Sound pressure level	Cooling	High/Low/Silent operation	dBA		37/25/21	42/28/21	40/24/19	41/25/19	45/29/19	45/33/21	46/34/23	45/36/33	46/37/34
	Heating	High/Low/Silent operation	dBA		38/28/21	41/30/21	40/27/19	41/27/19	45/29/19	45/33/22	47/34/24	44/35/32	46/37/34
Control systems	Infrared remote control				ARC466A6				ARC466A9			ARC452A3	
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240								

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) When connected with multi-system outdoor unit, refer to the specifications of the multi outdoor unit to be connected. (3) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

The best of two worlds united

Pure comfort and design

Why choose Nexura?

- Unique radiant heat panel that heats up just like a traditional radiator
- Whisper quiet operation down to 19 dBA
- Unobtrusive yet stylish design
- Reduced air flow, creating an even distribution of air through the room

Comfort is key

Nexura makes your world a comfortable one. The coolness of a summer breeze or the cosiness of an extra heat source brings a feeling of well-being to your living space all year round. Its unobtrusive yet stylish design with a front panel that radiates additional heat, its low noise level and reduced air flow turn your room into a haven.

Benefits

› Vertical autoswing
› Weekly timer
› Guaranteed operation down to -25°C (with RXLG-M)

Radiant heat panel

To add even more comfort on cold days, the aluminium front panel of the Nexura unit has the capability of warming up, just like a traditional radiator. The result? A comfortable feeling of warm air that envelopes you. And all you have to do to activate this unique feature is push the "radiant" button on your remote control.

Online controller

Always in control, no matter where you are. Control your indoor from any location with an app, via your local network or internet.

Floor standing unit with radiant heat panel

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

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

Indoor unit			FVXG	25K	35K	50K
Dimensions	Unit	HeightxWidthxDepth	mm	600x950x215		
Weight	Unit		kg	22		
Air filter	Type			Removable / washable / mildew proof		
Fan - Air flow rate	Cooling	High/Low/Silent operation	m^3/min	8,9/5,3/4,5	9,1/5,3/4,5	10,6/7,3/6,0
	Heating	High/Low/Silent operation	m^3/min	9,9/5,7/4,7	10,2/5,8/5,0	12,2/7,8/6,8
Sound power level	Cooling		dBA	52		58
	Heating		dBA	53		60
Sound pressure level	Cooling	High/Low/Silent operation	dBA	38/26/23	39/27/24	44/36/32
	Heating	High/Low/Silent operation/Radiant heat	dBA	39/26/22/19	40/27/23/19	46/34/30/26
Control systems	Infrared remote control			ARC466A2		
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240		

(1) EER/COP according to Eurovent 2012, for use outside EU only

(2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical drawing.

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

Floor standing unit

Floor standing unit for optimal heating comfort thanks to dual airflow

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

FVXS-F

ARC452A1

Indoor unit				FVXS	25F	35F	50F
Dimensions	Unit	HeightxWidthxDepth		mm	600x700x210		
Weight	Unit			kg	14		
Air filter	Type				Removable / washable / mildew proof		
Fan - Air flow rate	Cooling	High/Low/Silent operation		m^3/min	8,2/4,8/4,1	8,5/4,9/4,5	10,7/7,8/6,6
	Heating	High/Low/Silent operation		m^3/min	8,8/5,0/4,4	9,4/5,2/4,7	11,8/8,5/7,1
Sound power level	Cooling			dBA	52		60
	Heating			dBA	52		60
Sound pressure level	Cooling	High/Low/Silent operation		dBA	38/26/23	39/27/24	44/36/32
	Heating	High/Low/Silent operation		dBA	38/26/23	39/27/24	45/36/32
Control systems	Infrared remote control				ARC452A1		
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		

(1) EER/COP according to Eurovent 2012, for use outside EU only,
(2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

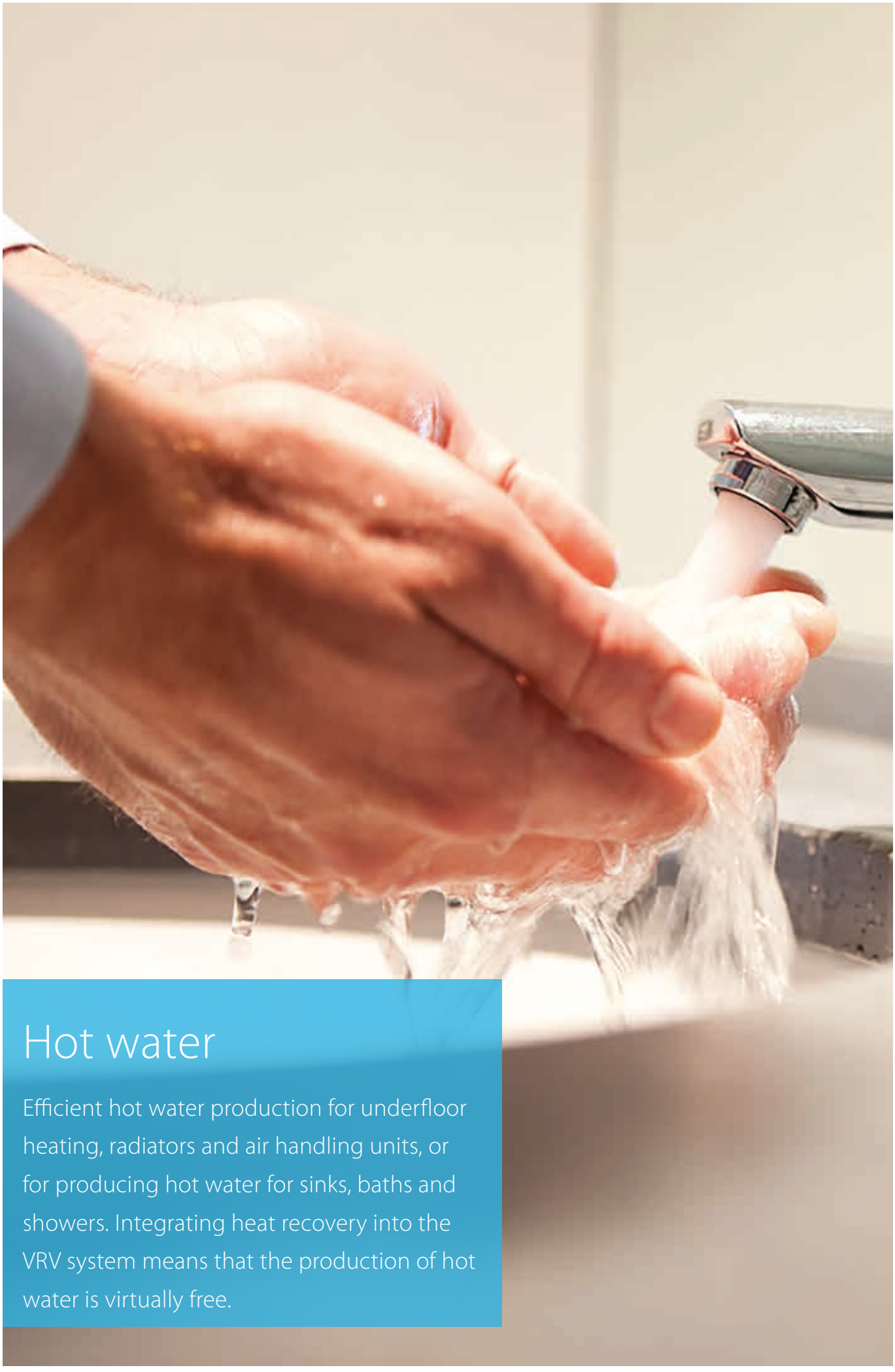
Flexi type unit

Flexible unit, ideal for rooms without false ceiling, can fit on either ceiling or wall

› Can fit on either ceiling or lower wall; its low height enables the unit to fit beneath a window
› Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
› Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
› Online controller (optional): control your indoor from any location with an app, via your local network or internet

Indoor unit				FLXS	25B	35B9	50B	60B
Dimensions	Unit	HeightxWidthxDepth		mm	490x1.050x200			
Weight	Unit			kg	16		17	
Air filter	Type				Removable / washable / mildew proof			
Fan - Air flow rate	Cooling	High/Low/Silent operation		m^3/min	7,6/6,0/5,2	8,6/6,6/5,6	11,4/8,5/7,5	12,0/9,3/8,3
	Heating	High/Low/Silent operation		m^3/min	9,2/7,4/6,6	12,8/8,0/7,2	12,1/7,5/6,8	12,8/8,4/7,5
Sound power level	Cooling			dBA	51	53	60	
	Heating			dBA	51	59	-	59
Sound pressure level	Cooling	High/Low/Silent operation		dBA	37/31/28	38/32/29	47/39/36	48/41/39
	Heating	High/Low/Silent operation		dBA	37/31/29	46/33/30	46/35/33	47/37/34
Control systems	Infrared remote control				ARC433B67			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220-230	1~ / 50 / 220-240	1~ / 50/60 / 220-240/220-230	1~ / 50 / 230

(1) EER/COP according to Eurovent 2012, for use outside EU only, (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.



Hot water

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

Hot water

Hydrobox range

Capacity class (kW)

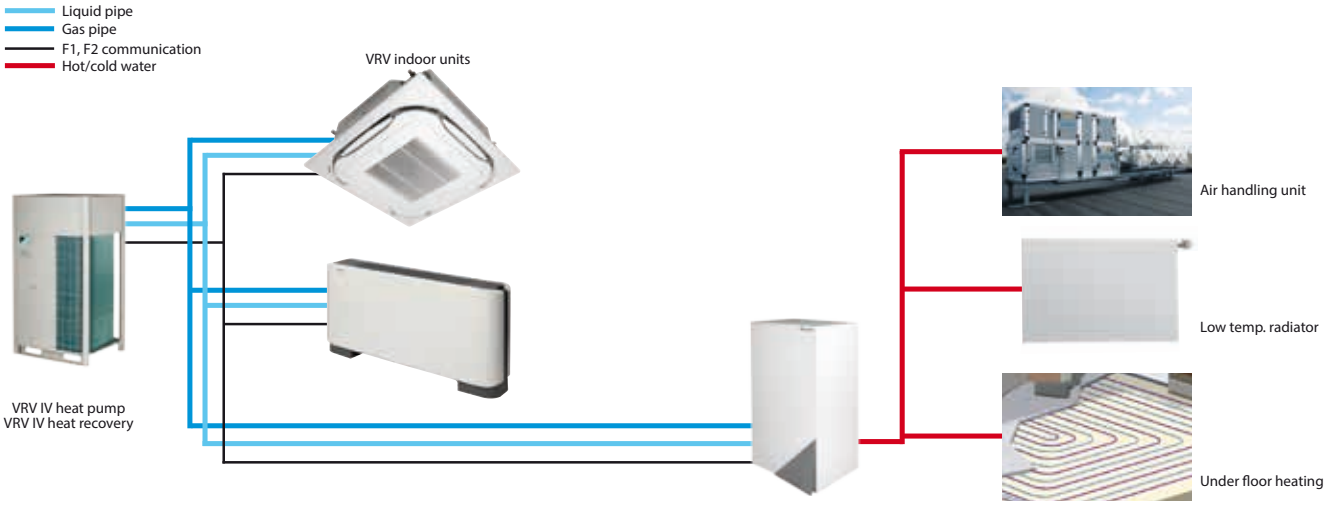
Type	Product name		Model	80	125	200	Leaving water temperature range
Low temperature hydrobox	HXY-A8		For high efficiency space heating and cooling › Ideal for hot or cold water in underfloor, air handling units, low temperature radiators … › Hot/cold water from 5° to 45°C › Large operation range (down 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		●	● NEW	25 °C - 80 °C

Low temperature hydrobox for VRV

For high efficiency space heating and cooling

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

HXY-A8



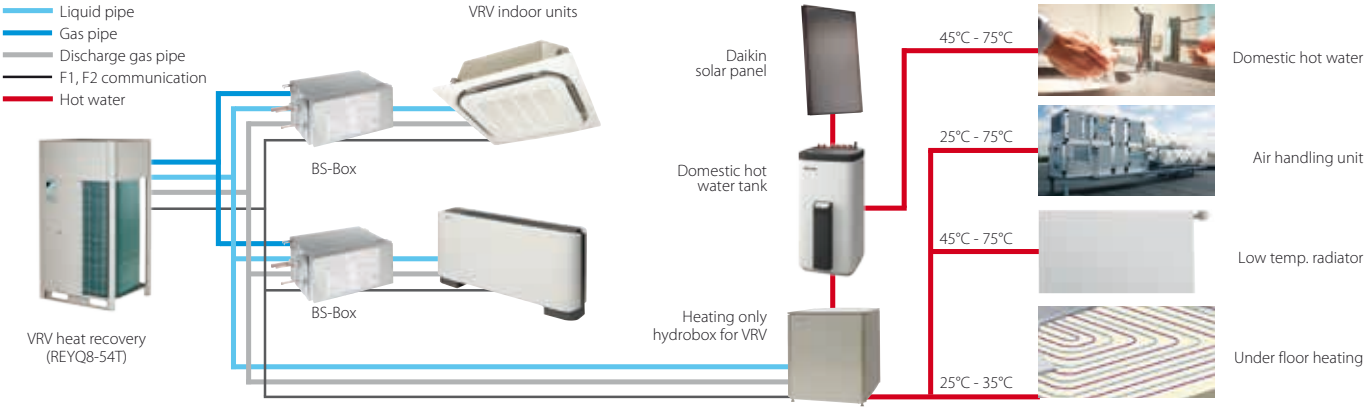
Indoor Unit				HXY	080A8	125A8
Cooling capacity	Nom.			kW	8,0 (1)	12,5 (1)
Heating capacity	Nom.			kW	9,00 (2)	14,00 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	890x480x344	
Weight	Unit			kg	44	
Casing	Colour				White	
	Material				Precoated sheet metal	
Sound pressure level	Nom.			dBA	-	
Operation range	Heating	Ambient	Min.~Max.	°C	-20~24	
		Water side	Min.~Max.	°C	25~45	
	Domestic hot water	Ambient	Min.~Max.	°CDB	-~-	
		Water side	Min.~Max.	°C	-~-	
Refrigerant	Type				R-410A	
	GWP				2.087,5	
Refrigerant circuit	Gas side diameter			mm	15,9	
	Liquid side diameter			mm	9,5	
Water circuit	Piping connections diameter			inch	G 1"1/4 (female)	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	
Current	Recommended fuses			A	6~16	

(1) Tamb 35°C - LWE 18°C (DT=5°C) (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) (3) Flow switch setting

High temperature hydrobox for VRV

For efficient hot water production and space heating

- Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- Leaving water temperature range from 25 to 80°C without electric heater
- „Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler
- Possibility to connect thermal solar collectors to the domestic hot water tank
- Super wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- Various control possibilities with weather dependant set point or thermostat control
- The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- No gas connection or oil tank needed
- Connectable to VRV IV heat recovery



NEW
For production of large quantities of hot water
Launch end 2017

Indoor Unit				HXHD	125A8	200A8
Heating capacity	Nom.			kW	14.0	22.4
Casing	Colour				Metallic grey	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	705x600x695	
Weight	Unit			kg	92	-
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20 / 24 (1)	
		Water side	Min.~Max.	°C	25~80	
	Domestic hot	Ambient	Min.~Max.	°CDB	-20~43	
	water	Water side	Min.~Max.	°C	45~75	
Refrigerant	Type				R-134a	
	Charge			kg	2	-
				TCO_2eq	2.9	-
	GWP				1,430.0	
Sound power level	Nom.			dBA	55 (2)	-
Sound pressure level	Nom.			dBA	42 (2) / 43 (3)	-
	Night quiet mode	Level 1		dBA	38 (2)	-
Refrigerant circuit	Gas side diameter			mm	12.7	-
	Liquid side diameter			mm	9.52	-
Water circuit	Piping connections diameter			inch	G 1" (female)	-
	Heating water system	Water volume	Max.~Min.	l	200~20	-
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	
Current	Recommended fuses			A	20	-

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

EKHTS-AC

Domestic hot water tank

Stackable stainless steel domestic hot water tank

- 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
- Available in 200 and 260 liters
- Heat loss is reduced to a minimum thanks to the high quality insulation
- At necessary intervals, the indoor unit can heat up the water to 60°C to prevent the risk of bacteria growth
- Efficient temperature heat-up: from 10°C to 50°C in only 60 minutes

EKHTS200AC

EKHTS260AC

Accessory				EKHTS	200AC	260AC
Casing	Colour				Metallic grey	
	Material				Galvanised steel (precoated sheet metal)	
Dimensions	Unit	Height	Integrated on indoor unit	mm	2.010	2.285
		Width		mm	600	
		Depth		mm	695	
Weight	Unit	Empty		kg	70	78
Tank	Water volume			l	200	260
	Material				Stainless steel (EN 1.4521)	
	Maximum water temperature			°C	75	
	Insulation	Heat loss		kWh/24h	1,2	1,5
Heat exchanger	Quantity				1	
	Tube material				Duplex steel (EN 1.4162)	
	Face area			m^2	1,56	
	Internal coil volume			l	7,5	

EKHWP-B/PB

Domestic hot water tank

Plastic domestic hot water tank with solar support

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

EKHWP300B-PB

					Pressured		Unpressured	
Accessory				EKHWP	300PB	500PB	300B	500B
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)			
	Material				Impact resistant polypropylene			
Dimensions	Unit	Width		mm	595	790	595	790
		Depth		mm	615	790	615	790
Weight	Unit	Empty		kg	58	89	58	82
Tank	Water volume			l	294	477	294	477
	Material				Polypropylen			
	Maximum water temperature			°C	85			
	Insulation	Heat loss		kWh/24h	1,5	1,7	1,5	1,7
	Energy efficiency class				B			
	Standing heat loss			W	64	72	64	72
	Storage volume			l	294	477	294	477
Heat exchanger	Domestic hot water	Quantity			1			
		Tube material			Stainless steel (DIN 1.4404)			
		Face area		m^2	5.600	5.800	5.600	5.800
		Internal coil volume		l	27,1	29,0	27,1	29,0
		Operating pressure		bar	6			
		Average specific thermal output		W/K	2.790	2.825	2.790	2.825
	Charging	Quantity			1			
		Tube material			Stainless steel (DIN 1.4404)			
		Face area		m^2	3	4	3	4
		Internal coil volume		l	13	19	13	19
		Operating pressure		bar	3			
		Average specific thermal output		W/K	1.300	1.800	1.300	1.800
	Auxiliary solar heating	Tube material			-	Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)
		Face area		m^2	-	1	-	1
		Internal coil volume		l	-	2	-	2
		Operating pressure		bar	-	3	-	3
		Average specific thermal output		W/K	-	280	-	280

Solar collector

Thermal solar collector for hot water production

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

EKSV21P

EKSH26P

EKSV26P

Accessory			EKSV/EKSH	21P	26P	
Mounting				Vertical		Horizontal
Dimensions	Unit	HeightxWidthxDepth	mm	1.006x85x2.000		2.000x85x1.300
Weight	Unit		kg	33	42	
Volume			l	1,3	1,7	2,1
Surface	Outer		m^2	2,01	2,60	
	Aperture		m^2	1.800	2.360	
	Absorber		m^2	1,79	2,35	
Coating				Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle	Min.~Max.		°	15~80		
Operating pressure	Max.		bar	6		
Stand still temperature	Max.		°C	192		
Thermal performance	collector efficiency (ηcol)		%	61		
	Zero loss collector efficiency η0		%	0,781	0,784	
	Heat loss coefficient a1		$W/m^2.K$	4,240	4,250	
	Temperature dependence of the heat loss coefficient a2		$W/m^2.K^2$	0,006	0,007	
	Thermal capacity		kJ/K	4,9	6,5	
Auxiliary	Solpump		W	-		
	Solstandby		W	-		
	Annual auxiliary electricity consumption Qaux		kWh	-		

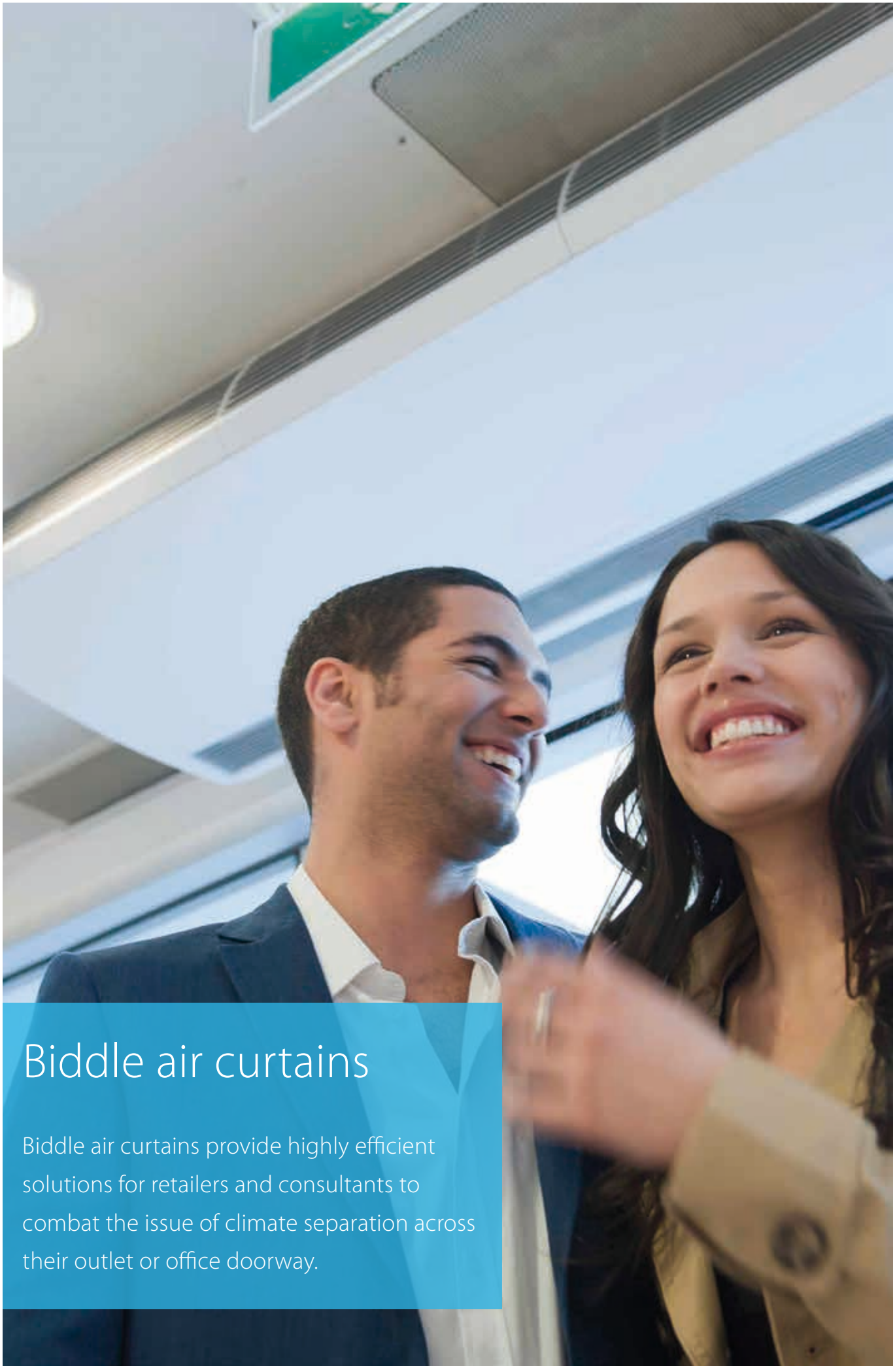
EKSRDS2A/EKSRPS4A

Pump station

- Save energy and reduce CO_2 emissions with a solar system for domestic hot water production
- Pump station connectable to unpressurised solar system
- Pump station and control provide the transfer of solar heat to the domestic hot water tank

EKSRPS4A

Accessory			EKSRPS4A/EKSRDS2A	4A	2A
Mounting				On side of tank	On wall
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230	410x314x154
Weight	Unit		kg	6	
Operation range	Ambient temperature	Min.~Max.	°C	5~40	0~40
Operating pressure	Max.		bar	-	6
Stand still temperature	Max.		°C	85	120
Thermal performance	collector efficiency (ηcol)		%	-	
	Zero loss collector efficiency η0		%	-	
Control	Type			Digital temperature difference controller with plain text display	
	Power consumption		W	2	5
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230	/50/230
Sensor	Solar panel temperature sensor			Pt1000	
	Storage tank sensor			PTC	-
	Return flow sensor			PTC	-
	Feed temperature and flow sensor			Voltage signal (3,5V DC)	-
Power supply intake				Indoor unit	
Auxiliary	Solpump		W	30	23
	Solstandby		W	2,00	5,00
	Annual auxiliary electricity consumption Qaux		kWh	78	89



Biddle air curtains

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

Biddle air curtains
connected to Daikin Heat Pumps

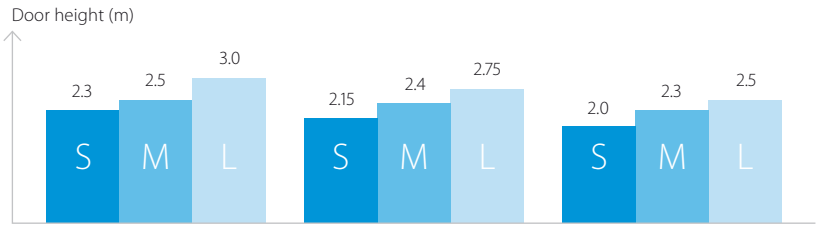
'Open Door' Trading

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

High efficiency and low CO_2 emission

An efficient outdoor/indoor climate separation limits heat loss through the door opening and enhances the efficiency of the air conditioning system. Combining Biddle air curtains with Daikin heat pumps can lead to savings up to 72% compared to electric air curtains and a paypack period of less than 1.5 years!

Air curtain size selector

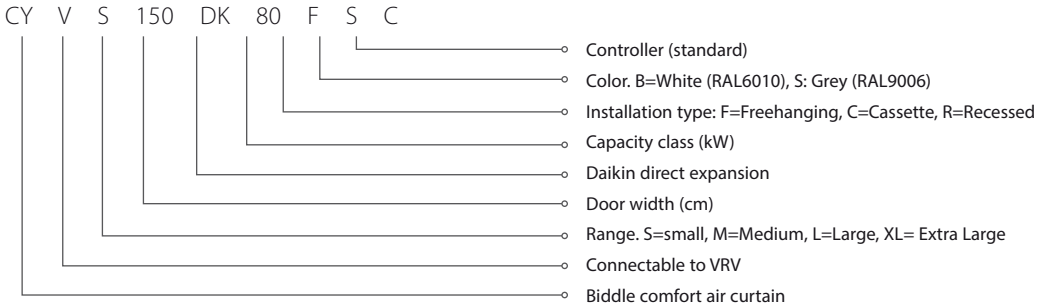


Favourable
Covered shopping mall or revolving door entrance

Normal
No opposite open doors, little direct wind, building with ground floor only

Unfavourable
Location at a corner or square, multiple floors and/ or open stairwell

Biddle comfort air curtian nomenclature



Portfolio

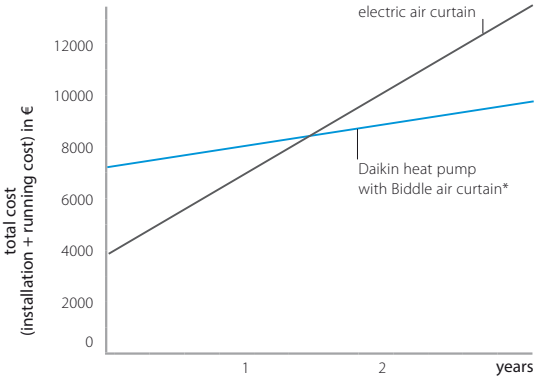
Type	Product name	
Biddle air curtain free hanging	CYV S/M/L-DK-F	
Biddle air curtain cassette	CYV S/M/L-DK-C	
Biddle air curtain recessed	CYV S/M/L-DK-R	

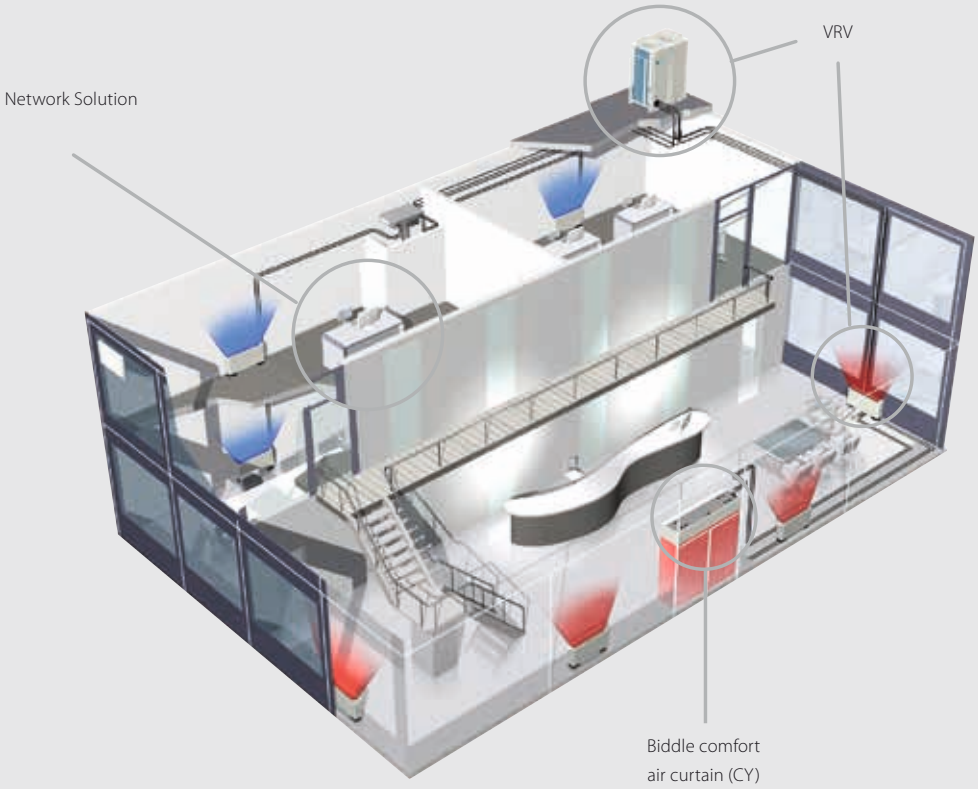
- A payback time of less than 1.5 years compared to electrical air curtains
- Easy and quick installation
- Maximum energy efficiency thanks to rectifier technology
- 85% air separation efficiency
- Cassette model (C): mounted into a false ceiling enhancing aesthetics
- Free-hanging model (F): easy wall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

Biddle air curtain for VRV

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

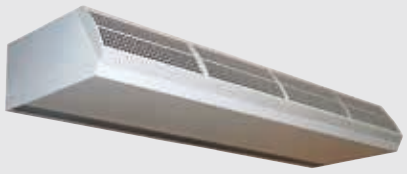
Packtime of less than 1.5 years





Integration in a VRV total solution

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



CYVM150DK80FSC

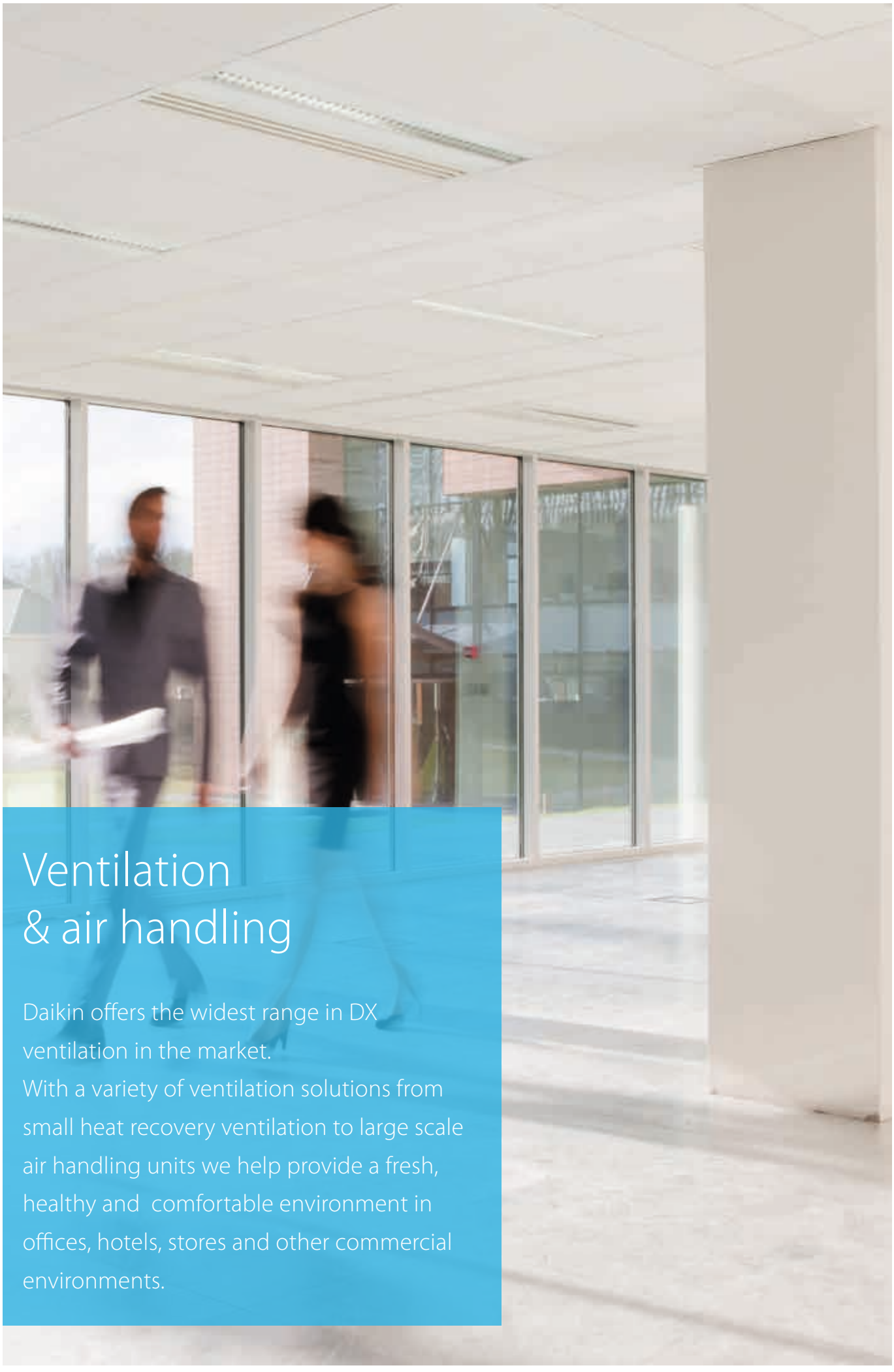
CYVM150DK80CSN

CYVM150DK80RSN

				Small				Medium			
				CYVS100DK80 *BN/*SN	CYVS150DK80 *BN/*SN	CYVS200DK100 *BN/*SN	CYVS250DK140 *BN/*SN	CYVM100DK80 *BN/*SN	CYVM150DK80 *BN/*SN	CYVM200DK100 *BN/*SN	CYVM250DK140 *BN/*SN
Heating capacity	Speed 3		kW	7,40	9,0	11,6	16,2	9,2	11,0	13,4	19,9
Power input	Fan only	Nom.	kW	0,23	0,35	0,46	0,58	0,37	0,56	0,75	0,94
	Heating	Nom.	kW	0,23	0,35	0,46	0,58	0,37	0,56	0,75	0,94
Delta T	Speed 3		K	19	15		16	17	14	13	15
Casing	Colour			BN: RAL9010 / SN: RAL9006							
Dimensions	Unit	Height F/C/R	mm	270/270/270							
		Width F/C/R	mm	1.000/1.000/1.048	1.500/1.500/1.548	2.000/2.000/2.048	2.500/2.500/2.548	1.000/1.000/1.048	1.500/1.500/1.548	2.000/2.000/2.048	2.500/2.500/2.548
		Depth F/C/R	mm	590/821/561							
Required ceiling void >			mm	420							
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m	1,0	1,5	2,0	2,5	1,0	1,5	2,0	2,5
Weight	Unit		kg	56	66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	m^3/h	1.164	1.746	2.328	2.910	1.605	2.408	3.210	4.013
Sound pressure level	Heating	Speed 3	dBA	47	49	50	51	50	51	53	54
Refrigerant	Type / GWP			R-410A / 2.087,5							
Piping connections	Liquid/OD/Gas/OD		mm	9,52/16,0			9,52/19,0	9,52/16,0			9,52/19,0
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E53A / BRC1E53B / BRC1E53C or BRC1D52)							
Power supply	Voltage		V	230							

				Large			
				CYVL100DK125*BN/*SN	CYVL150DK200*BN/*SN	CYVL200DK250*BN/*SN	CYVL250DK250*BN/*SN
Heating capacity	Speed 3		kW	15,6	23,3	29,4	31,1
Power input	Fan only	Nom.	kW	0,75	1,13	1,50	1,88
	Heating	Nom.	kW	0,75	1,13	1,50	1,88
Delta T	Speed 3		K	15		14	12
Casing	Colour			BN: RAL9010 / SN: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	mm	1.000/1.000/1.048	1.500/1.500/1.548	2.000/2.000/2.048	2.500/2.500/2.548
		Depth F/C/R	mm	774/1.105/745			
Required ceiling void >			mm	520			
Door height	Max.		m	3,0 (1) / 2,75 (2) / 2,5 (3)	3,0 (1) / 2,75 (2) / 2,5 (3)	3,0 (1) / 2,75 (2) / 2,5 (3)	3,0 (1) / 2,75 (2) / 2,5 (3)
Door width	Max.		m	1,0	1,5	2,0	2,5
Weight	Unit		kg	76	100	126	157
Fan-Air flow rate	Heating	Speed 3	m^3/h	3.100	4.650	6.200	7.750
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	Type / GWP			R-410A / 2.087,5			
Piping connections	Liquid/OD/Gas/OD		mm	9,52/16,0	9,52/19,0	9,52/22,0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E53A / BRC1E53B / BRC1E53C or BRC1D52)			
Power supply	Voltage		V	230			

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



Ventilation & air handling

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

Ventilation & air handling

For latest data, please consult my.daikin.eu

CYV Biddle air curtain

VAM - Heat reclaim ventilation

Daikin air handling unit and ERQ/VRV plug & play connection

Daikin offers a variety of solutions for fresh air

from small heat recovery ventilation to large-scale air handling units for the provision of fresh air ventilation to homes, or commercial outlets such as offices, hotels, stores and others.

Ventilation solutions

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

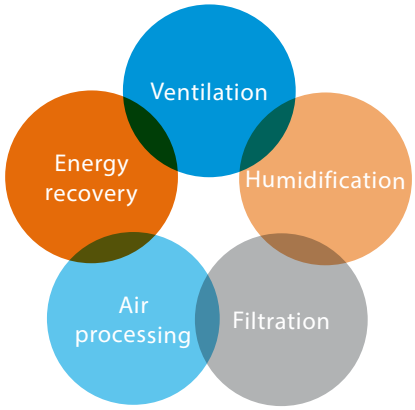
› Unique portfolio within DX manufacturers
› High-quality solutions complying with the highest Daikin quality standards
› Seamless integration of all products to provide the best indoor climate
› All Daikin products connected to a single control total control of the HVAC system.

Heat Reclaim Ventilation - Ventilation with heat recovery as standard

Proper ventilation is a key component of climate control in buildings, offices and shops and part of the EU requirements. Our heat recovery units can **recover both sensible and latent heat** thus substantially **reducing the air conditioning load of up to 40%.** The range starts from as low as 150 m³/h to 2500 m³/h (VAM) and go up to 25000 m³/h (Modular AHU).

Ventilation with DX connection - Control over fresh air temperature

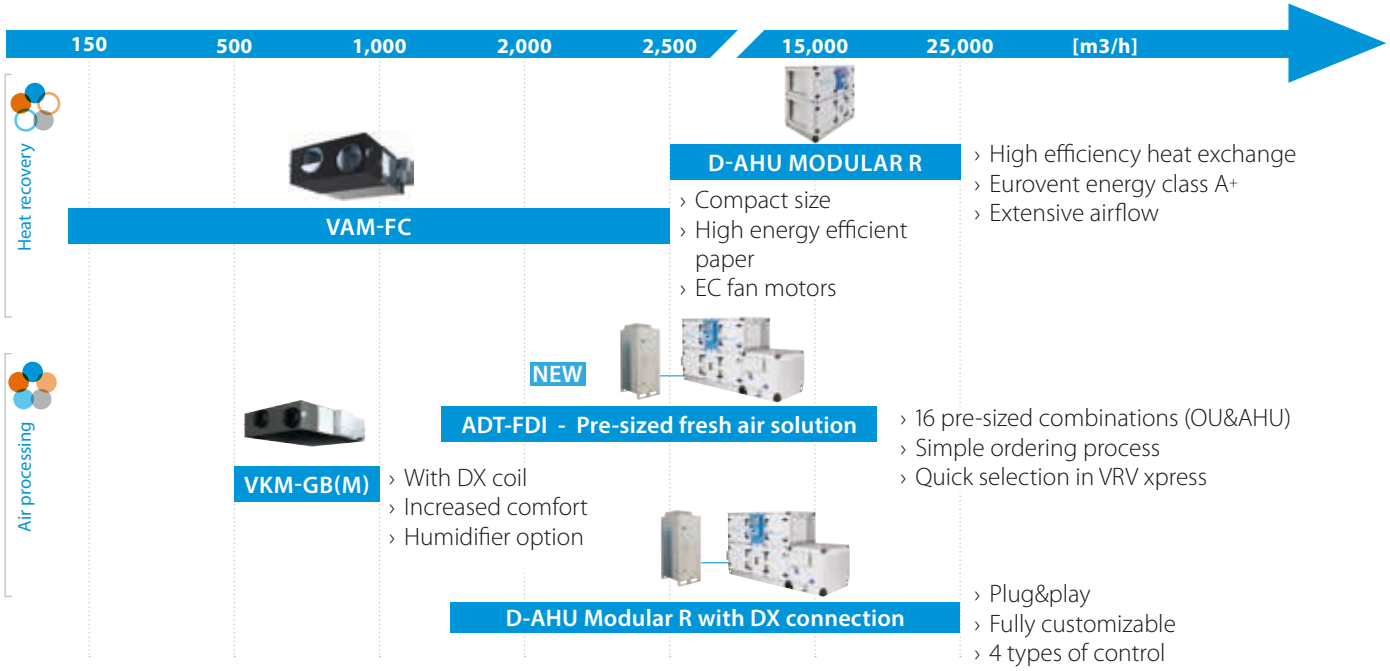
Daikin offers a range of R-410A inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be combined to the same outdoor unit to reduce the installation costs. For **false-ceiling installations** where space is a constraint, the VKM can fit perfectly to deliver fresh air at a comfortable temperature and it has an optional humidification element.



Five components of indoor air quality

› **Ventilation:** ensures the provision of fresh air
› **Energy recovery:** recovers heat and moisture from the outgoing air to maximise comfort and efficiency
› **Air processing:** heats or cools incoming fresh air maximising comfort and minimising the load on the air conditioning installation
› **Humidification:** optimises the balance between indoor and outdoor humidity
› **Filtration:** removes dust, pollution and odours from the air

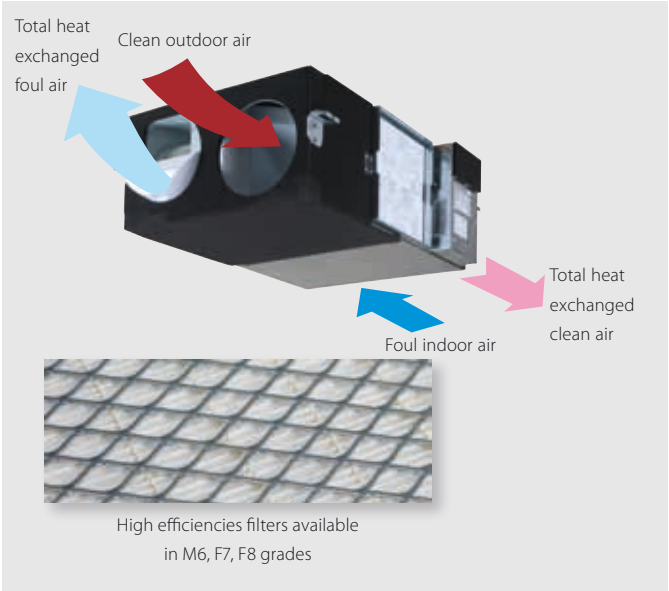
Fresh air portfolio



Heat reclaim ventilation

Ventilation with heat recovery as standard

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Reduced energy consumption thanks to specially developed DC fan motor
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO2 sensor
- 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
- Optional medium and fine dust filters M6, F7, F8 to meet customer request or legislation
- 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)

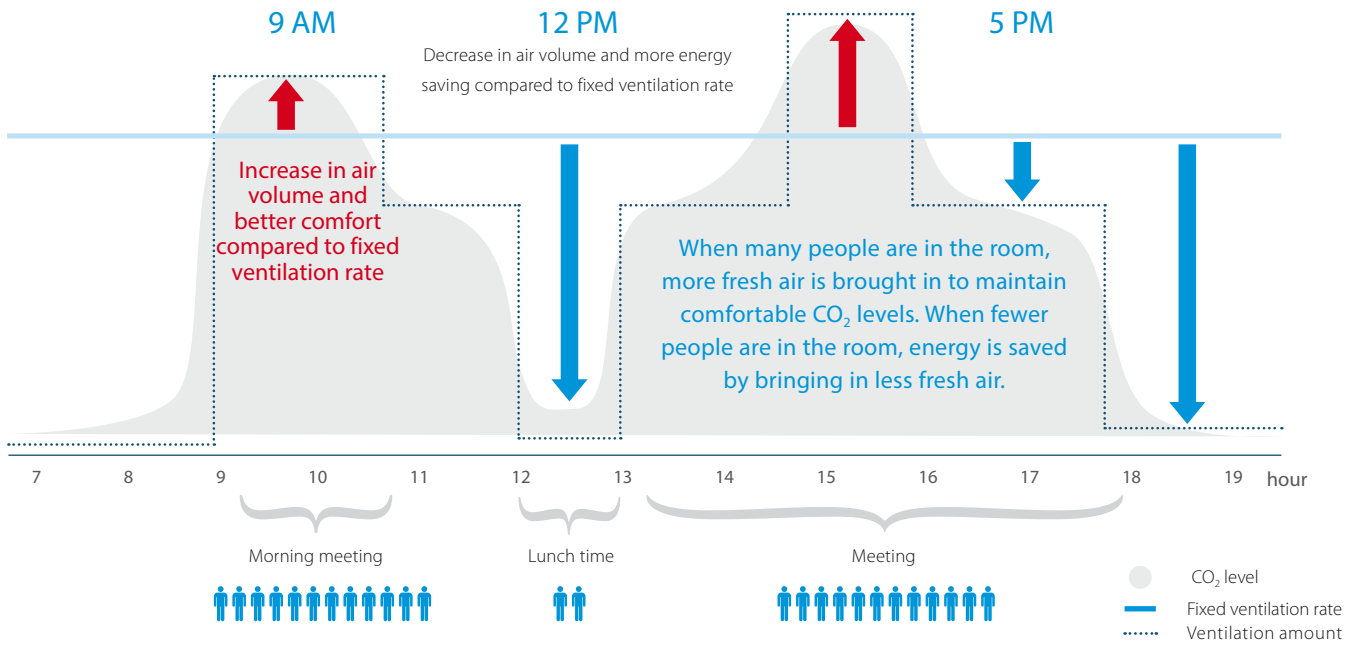


- No drain piping needed
- Can operate in over- and under pressure
- Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters

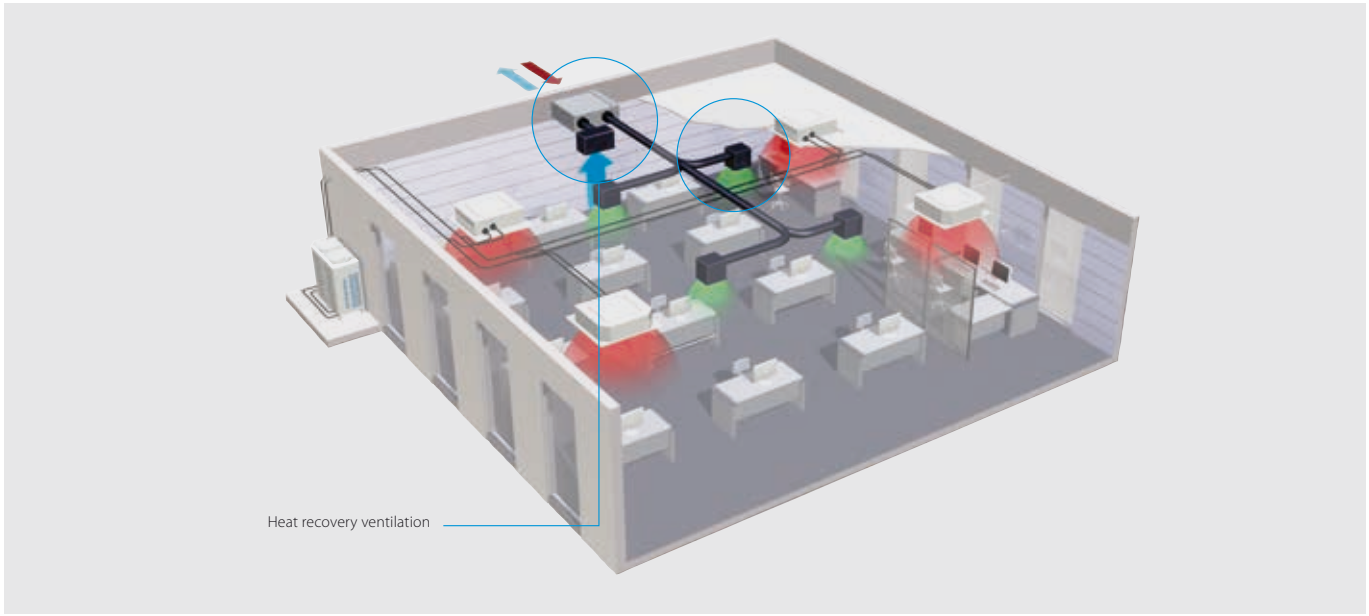
Prevent energy losses from over ventilation with CO_2 sensor

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO_2 sensor can be installed which throttles or even switches off the ventilation system when there is enough fresh air in the room, thus saving energy.

Example of CO_2 sensor operation in a meeting room:



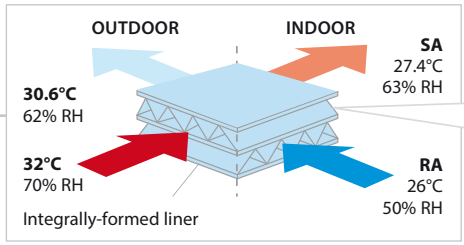
Using CO_2 sensors has the most energy-saving potential in buildings where occupancy fluctuates during a 24-hour period, is unpredictable and peaks at a high level. For example office buildings, government facilities, retail stores and shopping malls, movie theaters, auditoriums, schools, entertainment clubs and nightclubs. The ventilation unit's reaction to fluctuations in CO_2 can be easily adjusted through a field setting.

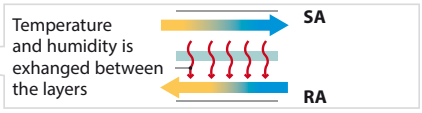


High Efficiency Paper

Operation of the high efficiency paper.

Cross flow of air to exchange heat and moisture.





RH: Relative Humidity SA: Supply Air (to room) RA: Return Air (from room)

Ventilation				VAM	150FC	250FC	350FC	500FC	650FC	800FC	1000FC	1500FC	2000FC
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0,132/0,111/ 0,058	0,161/0,079/ 0,064	0,071 (1)/0,057 (1)/0,020 (1)	0,147 (1)/0,101 (1)/0,049 (1)	0,188 (1)/0,114 (1)/0,063 (1)	0,320 (1)/0,241 (1) / 0,185 (1)	0,360 (1)/0,309 (1) /0,198 (1)	0,617 (1)/0,463 (1) /0,353 (1)	0,685 (1)/0,575 (1) /0,295 (1)
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0,132/0,111/ 0,058	0,161/0,079/ 0,064	0,071 (1)/0,057 (1)/ 0,020 (1)	0,147 (1)/0,101 (1)/ 0,049 (1)	0,188 (1)/0,114 (1)/ 0,063 (1)	0,320 (1)/0,241 (1)/ 0,185 (1)	0,360 (1)/0,309 (1)/ 0,198 (1)	0,617 (1)/0,463 (1)/ 0,353 (1)	0,685 (1)/0,575 (1)/ 0,295 (1)
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	77,0 (2) / 72,0 (3) / 78,3 (2) / 72,3 (3) /82,8 (2) /73,2 (3)	74,9 (2) / 69,5 (3) / 76,0 (2) / 70,0 (3) / 80,1 (2) / 72,0 (3)	78,0 (2) / 71,6 (4) / 79,3 (2) / 71,9 (4) / 84,1 (2) / 73,0 (4)	77,0 (2) / 70,2 (4) / 78,8 (2) / 70,7 (4) / 80,9 (2) / 71,3 (4)	77,0 (2) / 69,8 (4) / 79,1 (2) / 71,2 (4) / 81,1 (2) / 72,9 (4)	77,0 (2) / 67,8 (4) / 78,2 (2) / 68,8 (4) / 79,1 (2) / 69,6 (4)	78,0 (2) / 70,2 (4) / 78,6 (2) / 71,1 (4) / 80,2 (2) / 73,4 (4)	78,0 (2) / 69,5 (4) / 79,6 (2) / 70,3 (4) / 80,8 (2) / 71,0 (4)	78,0 (2) / 70,2 (4) / 79,6 (2) / 71,3 (4) / 80,6 (2) / 74,6 (4)
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	60,3 (2)/61,9 (2)/ 67,3 (2)	60,3 (2)/61,2 (2)/ 64,5 (2)	63,4 (2)/65,0 (2)/ 70,7 (2)	60,3 (2)/63,4 (2)/ 66,9 (2)	60,3 (2)/64,0 (2)/ 67,3 (2)	62,4 (2)/63,6 (2)/ 64,6 (2)	63,4 (2)/64,2 (2)/ 66,3 (2)	63,4 (2)/65,0 (2)/ 66,2 (2)	63,4 (2)/64,5 (2)/ 67,8 (2)
	Heating	Ultra high/High/Low		%	66,6 (2)/67,9 (2)/ 72,4 (2)	66,6 (2)/67,4 (2)/ 70,7 (2)	67,6 (2)/68,9 (2)/ 73,7 (2)	64,5 (2)/67,6 (2)/ 71,1 (2)	65,5 (2)/67,7 (2)/ 69,7 (2)	67,6 (2)/68,8 (2)/ 69,8 (2)	68,6 (2)/69,4 (2)/ 71,5 (2)	68,6 (2)/69,7 (2)/ 70,5 (2)	68,6 (2)/69,5 (2)/ 72,1 (2)
Operation mode					Heat exchange mode, bypass mode, fresh-up mode								
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange								
Heat exchange element					Specially processed non-flammable paper								
Dimensions	Unit	HeightxWidthxDepth		mm	285x776x525		301x828x816		364x1.000x868		364x1.000x1.160	726x1.510x868	726x1.510x1.160
Weight	Unit			kg	24,0		33,0		51,0	54,0	63,0	128	145
Casing	Material				Galvanised steel plate								
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low		m^3/h	150 (5)/140 (5)/105 (5)	250 (5)/230 (5)/155 (5)	350 (1)/320 (1)/210 (1)	500 (1)/410 (1)/310 (1)	650 (1)/545 (1)/450 (1)	800 (1)/725 (1)/665 (1)	1.000 (1)/950 (1)/820 (1)	1.500 (1)/1.350 (1)/1.230 (1)	2.000 (1)/1.880 (1) /1.500 (1)
	Bypass mode	Ultra high/High/Low		m^3/h	150 (5)/140 (5)/105 (5)	250 (5)/230 (5)/155 (5)	350 (1)/320 (1)/210 (1)	500 (1)/410 (1)/310 (1)	650 (1)/545 (1)/450 (1)	800 (1)/725 (1)/665 (1)	1.000 (1)/950 (1)/820 (1)	1.500 (1)/1.350 (1)/1.230 (1)	2.000 (1)/1.880 (1) /1.500 (1)
Fan-External static pressure - 50Hz	Ultra high/High/Low			Pa	90 (5)/87 (5)/ 40 (5)	70 (5)/63 (5)/ 25 (5)	103 (1)/93 (1)/ 51 (1)	83 (1)/57 (1)/ 35 (1)	100 (1)/73 (1)/ 49 (1)	109 (1)/94 (1)/ 78 (1)	147 (1)/135 (1)/ 100 (1)	116 (1)/97 (1)/ 80 (1)	132 (1)/118 (1)/ 77 (1)
Air filter	Type				Multidirectional fibrous fleeces								
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	27,0/26,0/20,5	28,0/26,0/21,0	32,0/31,5/23,5	33,0/31,5/24,5	34,5/33,0/27,0	36,0/34,5/31,0	36,0/35,0/31,0	39,5/38,0/34,0	40,0/38,0/35,0
	Bypass mode	Ultra high/High/Low		dBA	27,0/26,5/20,5	28,0/27,0/21,0	32,0/31,0/24,5	33,5/32,5/25,5	34,5/34,0/27,0	36,0/34,5/31,0	36,0/35,5/31,0	40,5/38,0/33,5	40,0/38,0/35,0
Operation range	Min.			°CDB	-15								
	Max.			°CDB	50								
	Relative humidity			%	80% or less								
Connection duct diameter				mm	100	150		200		250		350	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current	Maximum fuse amps (MFA)			A	15,0		16,0						
Specific energy consumption (SEC)	Cold climate			kWh/(m^2.a)	-56,0 (6)	-60,5 (6)	-						
	Average climate			kWh/(m^2.a)	-22,1 (6)	-27,0 (6)	-						
	Warm climate			kWh/(m^2.a)	-0,100 (6)	-5,30 (6)	-						
SEC class					D / (6)	B / (6)	-						
Maximum flow rate at 100 Pa ESP	Flow rate			m^3/h	130 (5)	207 (5)	-						
	Electric power input			W	129	160	-						
Sound power level (Lwa)				dB	40	43	48	50	51	53		55	57
Annual electricity consumption				kWh/a	18,9 (6)	13,6 (6)	-						
Annual heating saved	Cold climate			kWh/a	41,0 (6)	40,6 (6)	-						
	Average climate			kWh/a	80,2 (6)	79,4 (6)	-						
	Warm climate			kWh/a	18,5 (6)	18,4 (6)	-						

(1) Measured on fan curve 15. Refer to fan curves. (2) Measured according to JIS B 8628 (3) Measured at reference flow rate according to EN13141-7 (4) Measured according to EN308 : 1997 (5) Clean the filter when the filter icon appears on the controller screen. Regular filter cleaning is important for delivered air quality and for the unit's energy efficiency. (6) In accordance with commission regulation (EU) No 1254/2014 | In accordance with commission regulation (EU) No 1253/2014 | At reference flow rate in accordance with commission regulation (EU) No 1254/2014

VH

- 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
- BMS integration thanks to:
  - Volt free relay for error indication
  - 0-10VDC input for setpoint control

ELECTRICAL HEATER FOR VAM VH	(VH)
Supply voltage	220/250V ac 50/60 Hz. +/-10%
Output current (maximum)	19A at 40°C (ambient)
Temperature sensor	5k ohms at 25°C (table 502 1T)
Temperature control range	0 to 40°C / (0-10V 0-100%)
Control fuse	20 x 5mm 250mA
LED indicators	Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes	98mm x 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box	35°C (during operation)
Auto high temp. cutout	100°C Pre-set
Man. reset high temp. cutout	125°C Pre-set
Run relay	1A 120V AC or 1A 24V DC
BMS setpoint input	0-10VDC

VH		1B	2B	3B	4B	4/AB	5B
Capacity	kW	1	1	1	1,5	2,5	2,5
Duct diameter	mm	100	150	200	250	250	300
Connectable VAM		VAM150FC	VAM250FC	VAM500FC	VAM800FC	VAM800FC	VAM1500FC
		-	VAM350FC	VAM650FC	VAM1000FC	VAM1000FC	VAM2000FC

For the selection of the appropriate capacity, please refer to the VAM selection software.

Heat reclaim ventilation, humidification and air processing

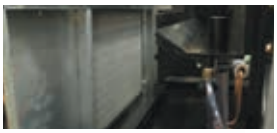
Pre heating or cooling of fresh air for lower load on the air conditioning system

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Creates a high quality indoor environment by pre conditioning incoming fresh air
- Humidification of the incoming air results in comfortable indoor humidity level, even during heating
- Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Low energy consumption thanks to DC fan motor
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO2 sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation.

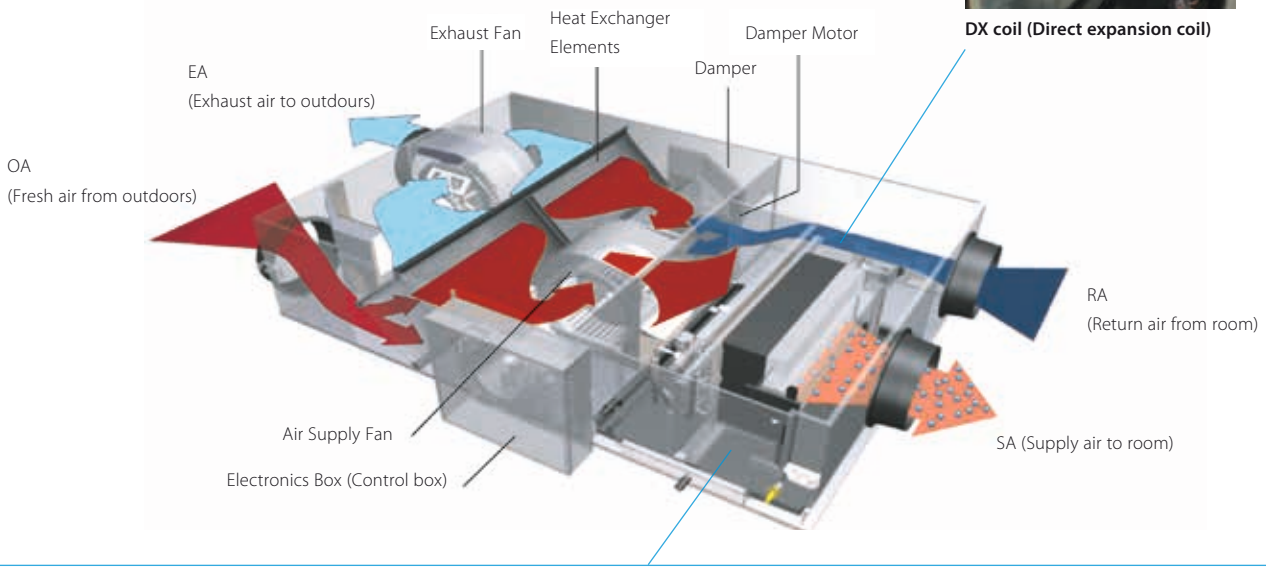
VKM80-100GB(M)

- Specially developed heat exchange element with High Efficiency Paper (HEP)
- Can operate in over- and under pressure

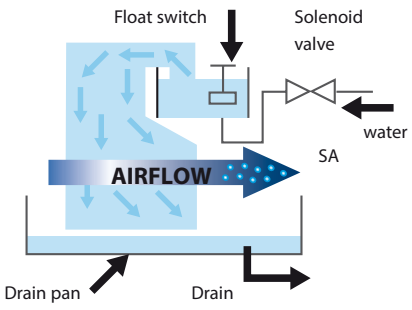
Operation example: humidification & air processing (heating mode)[1]



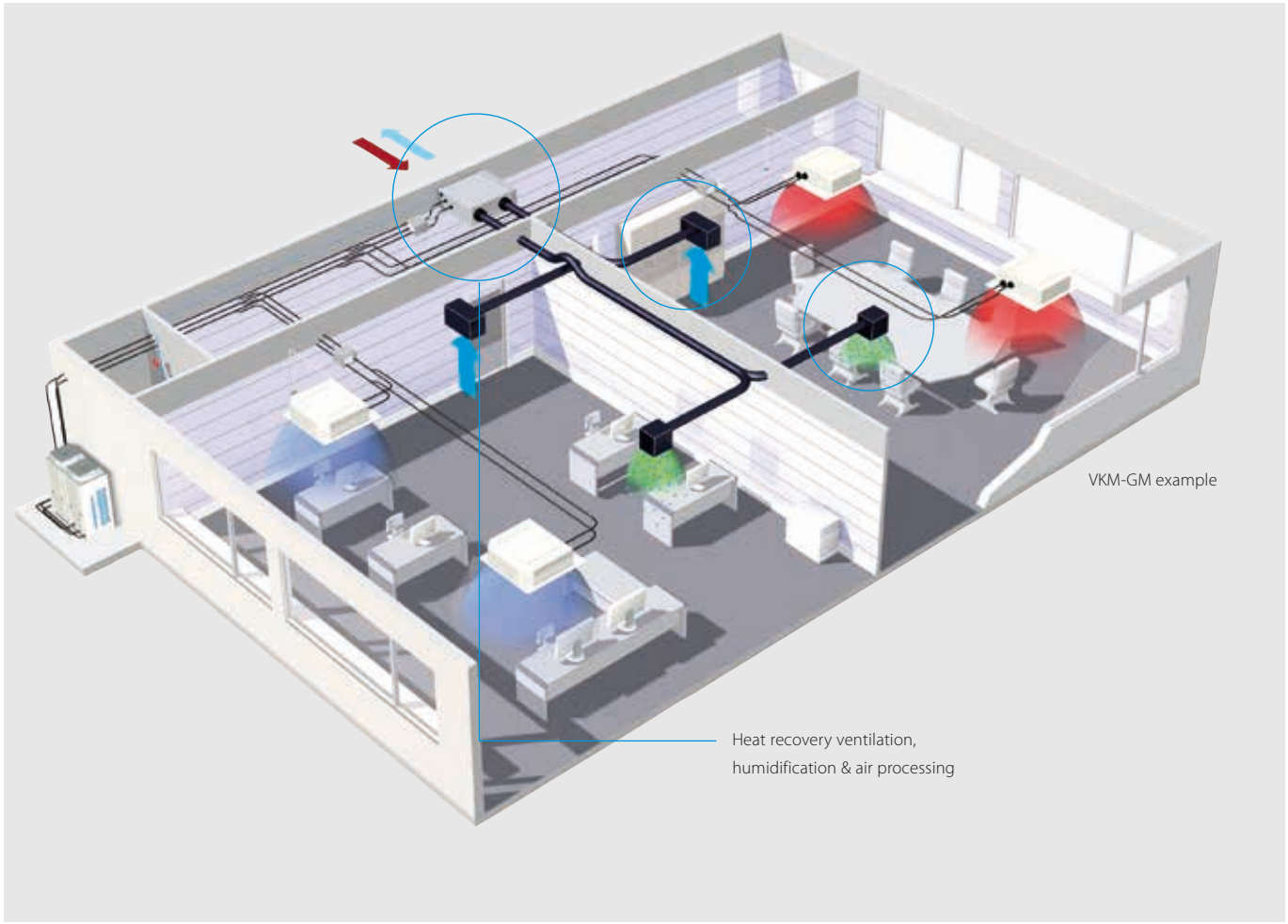
DX coil (Direct expansion coil)



Humidifier element:
Utilizing the principle of capillary action, water is permeated throughout the humidifier element. The heated air from the DX coil passes through the humidifier and absorbs the moisture.



[1] VKM-GM example



Ventilation			VKM-GB/VKM-GBM		50GB	80GB	100GB	50GBM	80GBM	100GBM
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0,270/0,230/ 0,170	0,330/0,280/ 0,192	0,410/0,365/ 0,230	0,270/0,230/ 0,170	0,330/0,280/ 0,192	0,410/0,365/ 0,230
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0,270/0,230/ 0,140	0,330/0,280/ 0,192	0,410/0,365/ 0,230	0,270/0,230/ 0,170	0,330/0,280/ 0,192	0,410/0,365/ 0,230
Fresh air conditioning load	Cooling			kW	4,71 / 1,91 / 3,5	7,46 / 2,96 / 5,6	9,12 / 3,52 / 7,0	4,71 / 1,91 / 3,5	7,46 / 2,96 / 5,6	9,12 / 3,52 / 7,0
	Heating			kW	5,58 / 2,38 / 3,5	8,79 / 3,79 / 5,6	10,69 / 4,39 / 7,0	5,58 / 2,38 / 3,5	8,79 / 3,79 / 5,6	10,69 / 4,39 / 7,0
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	76/76/77.5	78/78/79	74/74/76.5	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	64/64/67	66/66/68	62/62/66	64/64/67	66/66/68	62/62/66
	Heating	Ultra high/High/Low		%	67/67/69	71/71/73	65/65/69	67/67/69	71/71/73	65/65/69
Operation mode					Heat exchange mode / Bypass mode / Fresh-up mode					
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange					
Heat exchange element					Specially processed non-flammable paper					
Humidifier	System				-			Natural evaporating type		
Dimensions	Unit	HeightxWidthxDepth		mm	387x1.764x832	387x1.764x1.214		387x1.764x832	387x1.764x1.214	
Weight	Unit			kg	94	110	112	100	119	123
Casing	Material				Galvanised steel plate					
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820	500/500/440	750/750/640	950/950/820
	Bypass mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820	500/500/440	750/750/640	950/950/820
Fan-External static pressure - 50Hz	Ultra high/High/Low			Pa	210/170/140	210/160/110	150/100/70	200/150/120	205/155/105	110/70/60
Air filter	Type				Multidirectional fibrous fleeces					
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	39/37/35	41,5/39/37	41/39/36,5	38/36/34	40/37,5/35,5	40/38/35,5
	Bypass mode	Ultra high/High/Low		dBA	40/38/35,5	41,5/39/37	41/39/36,5	39/36/34,5	41/38/36	41/39/35,5
Operation range	Around unit			°CDB	0°C~40°CDB, 80% RH or less					
	Supply air			°CDB	-15°C~40°CDB, 80% RH or less					
	Return air			°CDB	0°C~40°CDB, 80% RH or less					
	On coil temperature	Cooling/Max./Heating/Min.		°CDB	-15/43			-15/43		
Refrigerant	Control				Electronic expansion valve					
	Type				R-410A					
	GWP				2.087,5					
Connection duct diameter				mm	200	250		200	250	
Piping connections	Liquid	OD		mm	6,35					
	Gas	OD		mm	12,7					
	Water supply			mm	-			6,4		
	Drain				PT3/4 external thread					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240					
Current	Maximum fuse amps (MFA)			A	15					

Daikin
air handling units solutions

You will find your match

Why choose Daikin air handling units with a DX connection?

Simplifying business

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

Supporting tools

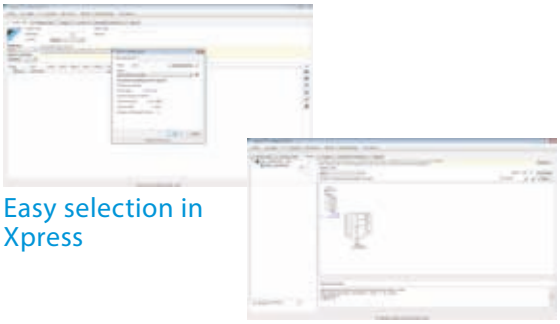
Selecting an AHU in combination with a DX unit has never been this easy amongst manufacturers. The well known VRV xpress selection software has been modified to integrate pre-sized AHU combinations with DX outdoor units or just to select outdoor units connected to expansion valve kits.
If a more complex selection is required, then the new Astra web can be utilized to make unique tailor-made solutions for any project requirements.

One stop shop

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

Complete range of possibilities

Thanks to the **most complete offer in the market**, Daikin has the solution for all types of commercial applications requiring fresh air. Daikin provides ventilation solutions based on AHU from 2,500 m³/h up to 140,000 m³/h either with natural heat recovery or more advanced ventilation solutions where a VRV outdoor unit can be connected to the Daikin AHU for ultimate climate control. The harmonized control between the VRV outdoor unit and the AHU offer outstanding 24h/7 control of the system when connected to an iTM.



Easy selection in Xpress

Advantages

- Unique manufacturer offering a complete range
- Plug&play solution
- Direct iTM compatibility
- VRV xpress supporting AHU business **NEW**
- Pre-sized AHU+DX outdoor units for fresh air **NEW**

New pre-sized fresh air solution

Easy selection

› 16 pre-selected combinations – to cover all fresh air needs in Europe
› The right outdoor unit and the necessary connection kits to the coil of the AHU are factory mounted and configured.
› Total solution – Daikin provides the complete solution

Fast quotation

› Select as any other unit in Xpress selection software and show the solution in the report

Download Xpress now with the new pre-sized combination from my.daikin.eu

Easy ordering

› AHU and outdoor unit are automatically selected in VRV xpress

Easy installation

› Same pipe diameter from AHU to outdoor unit
› Direct integration in Intelligent Manager

More details in the dedicated brochure

Pre-sized fresh air solution

High end ventilation with heat recovery

- Pre-sized making selection, quotation, ordering easy
- Connects direclty to pre-selected Daikin DX outdoor units
- IE premium effciency motor
- High effciency heat wheel (heat recovery)
- Compact design
- Indoor air quality compliant with VDI hygiene guideline
- Operating limits from - 20°C up to +46 °C ambient temperature
- Direct integration in intelligent Touch Manager for monitoring and control

				ADT03FDI-80	ADT03FDI-100	ADT03FDI-125	ADT04FDI-125	ADT04FDI-140	ADT04FDI-200	ADT05FDI-200	ADT05FDI-250
Airflow	Nominal Air Flow valid for Cooling (1) and Heating(2)		m3/h	2.200	2.700	3.200	3.600	4.100	4.700	5.500	6.200
Expansion valve kit	Type			EKEXV80	EKEXV100	EKEXV125	EKEXV125	EKEXV140	EKEXV200	EKEXV200	EKEXV250
	Number			1							
Control box	Type			EKEQFCBA							
	Number			1							
Outdoor unit	Type			ERQ100AV1		ERQ125AV1		ERQ140AV1	ERQ200AW1		ERQ250AW1
	Number			1							
Energy Rating	Eurovent Energy Class			A+		A	A+		A	A+	A
	ERP Compliance			ErP 2018							
Heat Recovery Technology	Winter	Nom.	%	Sorption Heat Wheel							
Heat Recovery Technology	Winter	Nom.	%	81,5	79,2	76,9	81,1	79,6	77,8	79	77,4
ESP		Nom.	Pa	200							
SFPv		Nom.	W/(m3/s)	1.388	1.508	1.660	1.402	1.512	1.637	1.456	1.575
Supply Fan power input		Nom.	W	0,53	0,7	0,92	0,89	1,08	1,35	1,4	1,72
Filter class	Supply			F7+ F7							
	Extract			F7+ F7							
Dimensions	Unit	Height	mm	1.540			1740				
		Width	mm	2.500			2.620			2.780	
		Depth	mm	990			1.200			1.400	
Weight			Kg	549			659			840	
Total Power Input		Nom.	kW	1,55	2	2,3	2,25	2,63	3,15	3,25	3,86
Power supply	Electrical voltage		V/ph/Hz	230V/1Ph/50Hz	400V/3Ph/50Hz						
Door opening (following supply air direction)				Right							

				ADT06FDI-250	ADT07FDI-250	ADT07FDI-140	ADT07FDI-200	ADT08FDI-200	ADT09FDI-200	ADT09FDI-250	ADT10FDI-250
Airflow	Nominal Air Flow valid for Cooling (1) and Heating(2)		m3/h	6.900	7.400	8.000	8.700	10.000	11.500	13.200	14.900
Expansion valve kit	Type			EKEXV250		EKEXV140	EKEXV200			EKEXV250	EKEXV250
	Number			1		2					
Control box	Type			EKEQFCBA							
	Number			1		2					
Outdoor unit	Type			ERQ250AW1		ERQ140AV1	ERQ200AW1			ERQ250AW1	
	Number			1		2	2			2	
Energy Rating	Eurovent Energy Class			A	A+	A			A+	A	A+
	ERP Compliance			ErP 2018							
Heat Recovery Technology	Winter	Nom.	%	Sorption Heat Wheel							
Heat Recovery Technology	Winter	Nom.	%	77,9	80,2	79,3	78,1	78,4	79,7	77,9	80,2
ESP		Nom.	Pa	200							
SFPv		Nom.	W/(m3/s)	1.580	1.438	1.491	1.581	1.429	1.438	1.569	1.397
Supply Fan power input		Nom.	W	1,86	1,82	2,04	2,35	2,48	2,82	3,54	3,62
Filter class	Supply			F7+ F7							
	Extract			F7+ F7							
Dimensions	Unit	Height	mm	1920				2.180	2.460		2.570
		Width	mm	2.980	3.100			3.150	2.980		3.100
		Depth	mm	1.400	1.600				1940		2.300
Weight			Kg	887	1.063			1.489	1.594		1.973
Total Power Input		Nom.	kW	4,14	4,07	4,48	5,08	5,37	6,06	7,44	7,6
Power supply	Electrical voltage		V/ph/Hz	400V/3Ph/50Hz							
Door opening (following supply air direction)				Right							

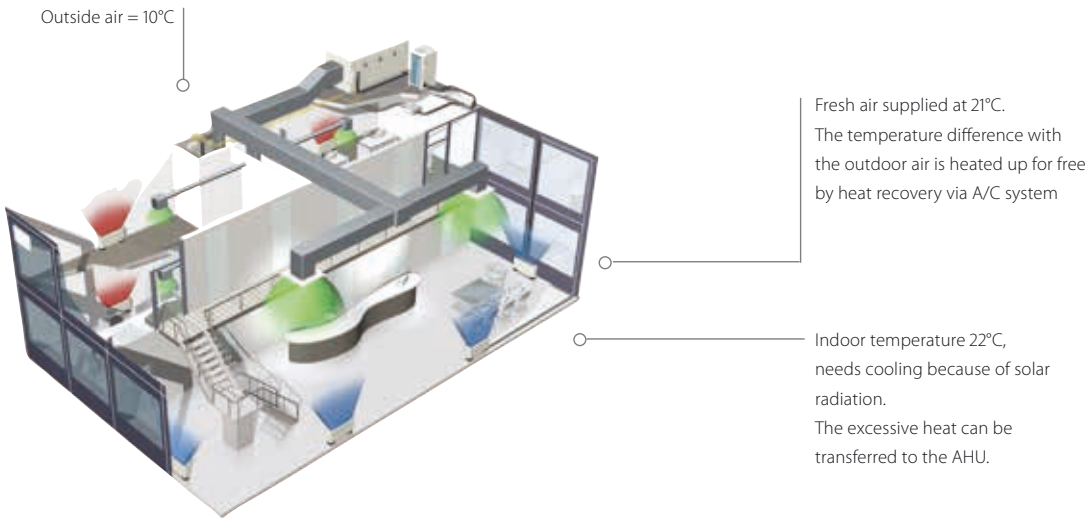
(1) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m

(2) Heating: indoor temp. 20°CDB; outdoor temp. -15°CDB; equivalent refrigerant piping: 5m; level difference: 0m

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

High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air.



Fast response to changing loads resulting in high comfort levels

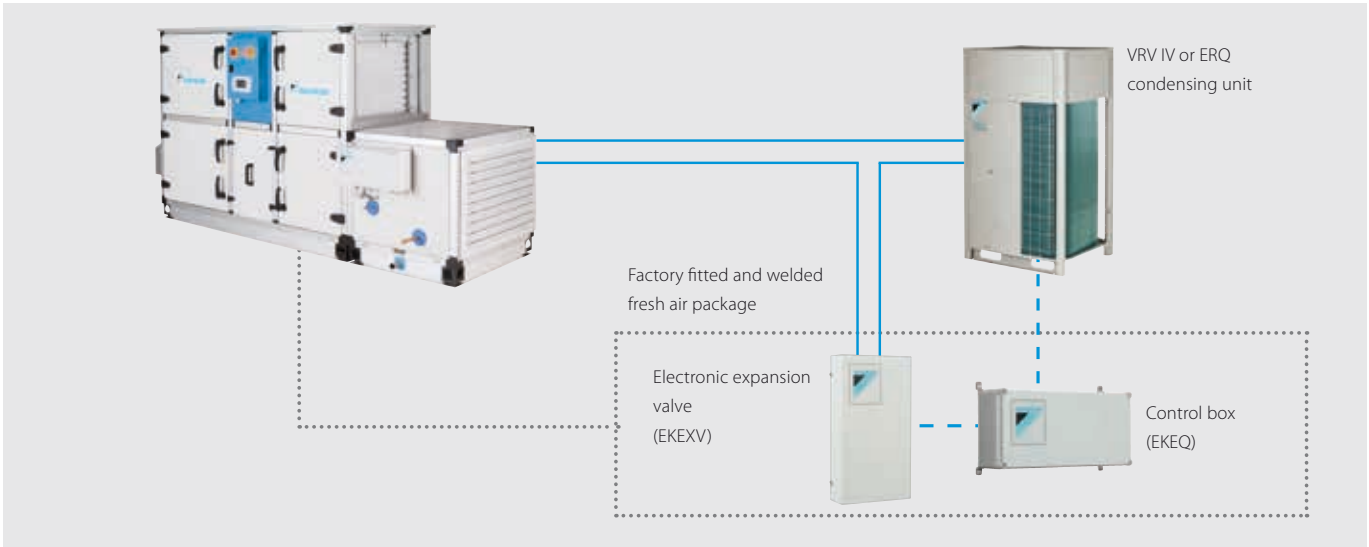
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

Easy Design and Installation

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

Daikin Fresh air package

› If the pre-sized fresh air solution does not match the need.
› Plug & play connection between VRV/ERQ and the entire D-AHU modular range.
› Factory fitted and welded control and expansion valve kits.

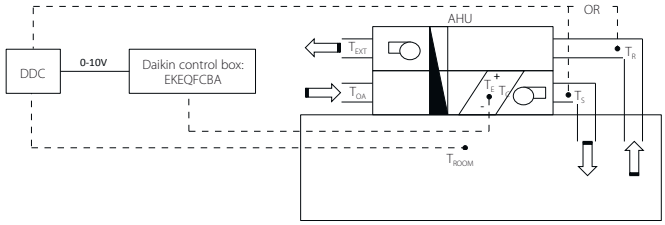


In order to maximise installation flexibility, 4 types of control systems are offered

W control: Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller, easy to setup
X control: Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)
Z control: Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)
Y control: Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)

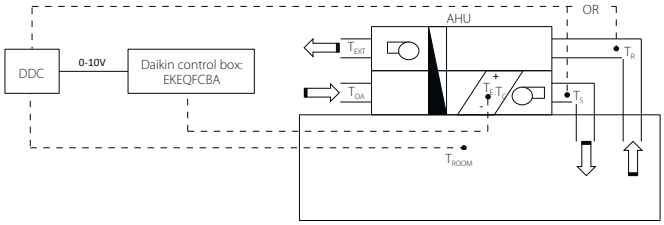
1. W control (T_S/T_R/T_{ROOM} control):

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



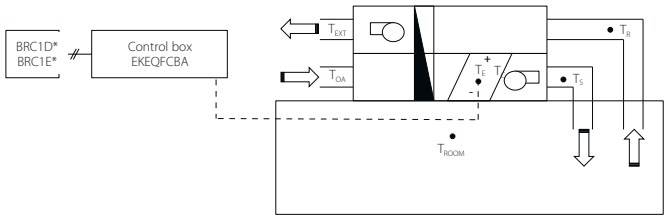
2. X control (T_S/T_R/T_{ROOM} control):

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



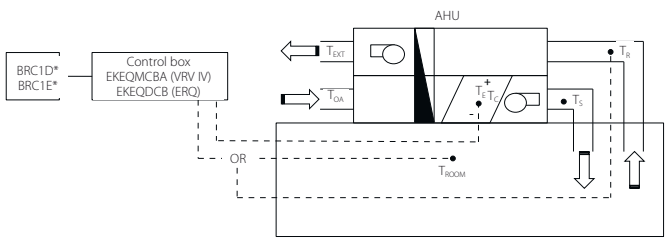
3. Y control (T_E/T_C control):

By fixed evaporating /condensing temperature
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1D52 or BRC1E52A/B - optional) have to be connected for initial set-up but not required for operation.



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

Control your AHU just like a VRV indoor unit with 100% fresh air
Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1D52 or BRC1E52A/B for operation. The only control that allows the combination of other indoor units to the AHU at the same time.



T_S = Supply air temperature
T_{EXT} = Extraction air temperature
T_R = Return air temperature
T_E = Evaporating temperature
T_{OA} = Outdoor air temperature
T_C = Condensing temperature
T_{ROOM} = Room air 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 BRC1D52 or BRC1E52A/B Temperature control using air suction temperature or room temperature (via remote sensor)

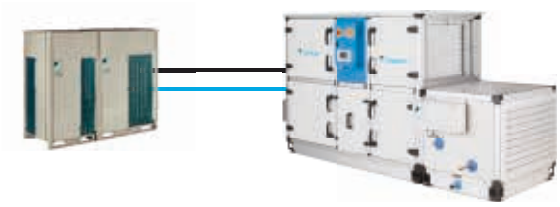
* EKEQMCB (for 'multi' application)

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

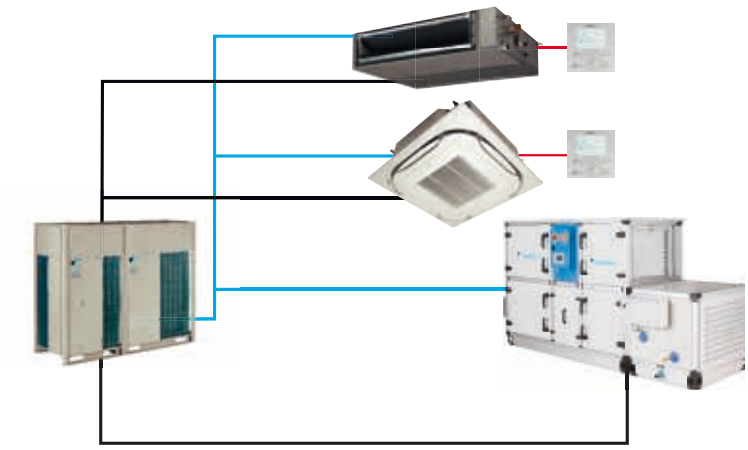
An advanced solution for both pair and multi application

› Inverter controlled units
› Heat recovery, heat pump
› R-410A
› Control of room temperature via Daikin control
› Large range of expansion valve kits available
› BRC1E52A/B is used to set the set point temperature (connected to the EKEQMCBA).
› Connectable to all VRV heat recovery and heat pump systems

W, X, Y control for VRV IV heat pump



Z control for all VRV outdoor units



Refrigerant piping
F1-F2
other communication

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

ERQ-AW1

A basic fresh air solution for pair application

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

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

Ventilation			**ERQ**	**100AV1**	**125AV1**	**140AV1**
Capacity range			HP	4	5	6
Cooling capacity	Nom.		kW	11,2	14,0	15,5
Heating capacity	Nom.		kW	12,5	16,0	18,0
Power input	Cooling	Nom.	kW	2,81	3,51	4,53
	Heating	Nom.	kW	2,74	3,86	4,57
EER				3,99		3,42
COP				4,56	4,15	3,94
Dimensions	Unit	HeightxWidthxDepth	mm	1.345x900x320		
Weight	Unit		kg	120		
Casing	Material			Painted galvanized steel plate		
Fan-Air flow rate	Cooling	Nom.	m^3/min	106		
	Heating	Nom.	m^3/min	102	105	
Sound power level	Cooling	Nom.	dBA	66	67	69
Sound pressure level	Cooling	Nom.	dBA	50	51	53
	Heating	Nom.	dBA	52	53	55
Operation range	Cooling	Min./Max.	°CDB	-5/46		
	Heating	Min./Max.	°CWB	-20/15,5		
	On coil temperature	Heating/Min./Cooling/Max.	°CDB	10/35		
Refrigerant	Type			R-410A		
	Charge		kg	4,0		
			TCO_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 expension 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	P	-	-	P	P	P	P	-	-	-	-	-	Not possible
	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ140	P	P	-	-	-	P	P	P	P	-	-	-	-	
3-phase	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ200	P	P	-	-	-	-	P	P	P	P	P	-	-	
	ERQ250	P	P	-	-	-	-	-	P	P	P	P	-	-	
VRV III		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory
VRV IV H/P / VRV IV W-series VRV IV S-series		-	P (1 -> 3)	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	Possible (not mandatory)
VRV IV H/R VRV IV i-series		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory

- P (pair application): combination depends on the capacity of the air handling unit
- n1 (multi application) - Combination of AHUs and VRV DX indoors (mandatory). To determine the exact quantity please refer to the engineering data book.
- n2 (multi application) - Combination of AHUs and VRV DX indoors (not mandatory). To determine the exact quantity please refer to the engineering data book.data book
- Control box EKEQFA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units or hydroboxes

Capacity table

Cooling

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	Heating Min.	°CDB	10 (1)									
	temperature	Cooling Max.	°CDB	35 (2)									
Refrigerant	Type / GWP			R-410A / 2.087,5									
Piping connections	Liquid	OD	mm	6,35	9,52							12,7	15,9

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

EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	MCBA
Application			See note	Pair	Multi
Outdoor unit			ERQ / VRV	ERQ	VRV
Dimensions	Unit	mm	132x400x200		
Weight	Unit	kg	3,9	3,6	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230		

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

Pair application selection

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

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 ºCDB and the target supply air temperature for fresh air is 25 ºCDB. Load calculations point to a required capacity of 45kW.
By checking on the EKEXV capacity table, for cooling operation, 40kW falls within the 400 class valve. Since 40kW is not the nominal capacity, a class adjustment has to be done. 40/45=0,89 and 0,89x400=356. So the capacity class of the expansion valve kit is 356.

Step 2: Outdoor unit selection

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

Step 3: Control box selection

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

Multi application selection

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

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 ºCDB and the target supply air temperature for fresh air is 25 ºCDB. On top of this, for this building, 5 round-flow cassette units FXFQ50A will also be connected to this OU.
Load calculations point to a required capacity of 20kW for the AHU and 22,5 kW for the indoor untis.
By checking on the EKEXV capacity table, for cooling operation, 20kW falls within the 200 class valve. Since 22,4 kW is the nominal capacity, a class adjustment has to be done. 20/22,4=0,89 and 0,89x200=178. So the capacity class of the expansion valve kit is 178. Total capacity class of the indoor unit system is 178+250=428

Step 2: Outdoor unit selection

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

Step 3: Control box selection

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

Rooftop

- Easy to install 'plug and play' concept plus single installation configuration; no additional piping is required since indoor and outdoor sides are pre-connected
- High efficiency and reliable scroll compressor
- Wide operating range
- Flat top unit design allows maximum use of warehouse and container space
- Free cooling and fresh air intake possible with optional economiser
- Convertible return and supply air: fan can be mounted in two directions
- Factory pre-charged refrigerant ensures clean and efficient operation
- Belt driven fan enables air volume and static pressure to be adjusted as required.
- Adjustable fan pulley as standard to meet a wide range of supply air volumes and external static pressures
- Anti-corrosion treated coil

UATYQ-CY1

Remote control

Indoor unit					UATYQ	250CY1	350CY1	450CY1	550CY1	600CY1	700CY1	900CY1
Cooling capacity	Nom.				kW	27,34	35,58	44,72	55,69	66,82	72,60	93,10
Heating capacity	Nom.				kW	24,91	34,79	41,79	53,93	61,69	69,61	87,90
Power input	Cooling	Nom.			kW	8,14	10,78	13,04	16,74	19,65	21,61	28,47
	Heating	Nom.			kW	7,33	10,84	12,86	15,54	18,58	21,42	27,90
EER						3,36	3,30	3,43	3,33	3,40	3,36	3,27
COP						3,40	3,21	3,25	3,47	3,32	3,25	3,15
Evaporator	Air flow rate	Cooling			m^3/min	93,6	121,8	160,2	189,6	206,7	235,02	271,84
	External static pressure				Pa		147			206		206
Evaporator piping connections	Condensation drain size	OD			mm			25,4				-
Condenser	Dimensions	Unit	Height		mm	1.150	1.028	1.130	1.048	1.302	1.454	1.454
			Width		mm	1.638			2.209			2.209
			Depth		mm	2.063		2.113		2.670		2.670
	Weight	Unit			kg	445	580	610	830	880	1.020	1.020
	Casing	Colour						Light grey				
	Air flow rate	Cooling			cfm	8.230	12.000	12.100	12.900	20.200	21.200	-
	Operation range	Cooling	Min.~Max.		°CDB			0~52				-
		Heating	Min.~Max.		°CWB			-15~18				-
	Sound pressure level	Nom.			dBA	68	64	65	68	70		70
	Sound power level	Nom.			dBA	82	83		87	90		90
	Refrigerant	Type						R-410A				R-410A
		GWP						2.087,5				2.087,5
		Charge			TCO_2eq	12,7	12,1	15	18,2	21,7	24,2	-
					kg	6,1	5,8	7,2	8,7	10,4	11,6	-
Power supply	Phase/Frequency/Voltage				Hz/V			3~/50/380-415				3~/50/380-415

(1) All units are being tested and comply to ISO5151. (2) Sound pressure levels are measured according to JIS B 8616 standard (3) All performance calculations are strictly according to Eurovent standard

Economiser option

Indoor unit					ECONO	250AY1	350AY1	450AY1	550AY1	600AY1	700AY1	900AY1
Dimensions	Packed unit	Height			mm			534				534
		Width			mm	1.440		1.430		1.458		1.460
		Depth			mm	1.144		1.124		1.564		1.682
Weight	Unit				kg	51	42	43	53	54	69	78
Packing	Weight				kg	152	140	141	165	166	181	-
Fan	Air flow rate	Cooling	Nom.		l/s	1.560	2.030	2.670	3.160	3.445	3.917	4.553
					cfm	3.300	4.300	5.650	6.700	7.300	8.300	9.600
Power supply	Voltage				V			24 DC				24 DC
Option for						UATYQ250CY1	UATYQ350CY1	UATYQ450CY1	UATYQ550CY1	UATYQ600CY1	UATYQ700CY1	UATYQ900CY1
Test Standard								ISO 13253				ISO 13253

*Note: blue cells contain preliminary data

Rooftop

- Easy to install 'plug and play' concept plus single installation configuration; no additional piping is required since indoor and outdoor sides are pre-connected
- Factory pre-charged refrigerant ensures clean and efficient operation
- Belt driven fan enables air volume and static pressure to be adjusted as required.
- Flat top unit design allows maximum use of warehouse and container space
- High efficiency and reliable scroll compressor
- Anti-corrosion treated coil

UATYP-AY1(B)

Remote control

Indoor unit					UATYP	C10AY1	C10AY1
Cooling capacity	Nom.				kW	101,11	109,61
Heating capacity	Nom.				kW	102,29	126,31
Power input	Cooling	Nom.			kW	43,17	48,20
	Heating	Nom.			kW	41,67	46,80
EER						2,34	2,27
COP						2,45	2,70
Evaporator	Air flow rate	Cooling			m^3/min	312	354
	External static pressure				Pa		
Evaporator piping connections	Condensation drain size	OD			mm		
Condenser	Dimensions	Unit	Height		mm	1.974	
			Width		mm	2.252	
			Depth		mm	3.180	
	Weight	Unit			kg	1.510	1.600
	Casing	Colour					
		Material				Electro-galvanised mild steel	
	Air flow rate	Cooling			cfm	20.000	
	Operation range	Cooling	Min.~Max.		°CDB		
		Heating	Min.~Max.		°CWB		
	Sound power level	Nom.			dBA		
	Refrigerant	Type					
		GWP					
		Charge			TCO_2eq	23,9	35,5
					kg	13,5 / 20,0	20,0
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/380-415	

(1) All units are being tested and comply to ISO5151. (2) Sound pressure levels are according to JIS B 8615 standard. Position of the measurement is 1m in front and 1m below the unit. (3) Designation based on cooling cycle.

Market leading

controls

- ☑ INTUITIVE & USER-FRIENDLY INTERFACE
- ☑ CROSS PILLAR INTEGRATION
- ☑ CLOUD CONTROL
- ☑ SMART ENERGY MANAGEMENT
- ☑ INTEGRATION OF DAIKIN AND THIRD PARTY PRODUCTS

intelligent Touch Manager

Mini BMS for medium to large commercial buildings

› Price competitive mini BMS
› Cross-pillar integration of Daikin products
› Integration of third party equipment via WAGO or BACnet/IP
› Connect up to 512 indoor units groups

→ more information on page 174

intelligent Tablet Controller

Advanced centralised controller with Cloud connection

› Simply control your entire building centrally
› Total solution concept (integration of Split, Sky Air, VRV, ventilation, air curtains and hot water)
› Stylish optional screen fits any interior
› Cloud connection offers additional services such as online control, energy monitoring, comparison of energy consumption of multiple sites
› Connect up to 32 indoor units

→ more information on page 172

Find out more on
http://www.daikineurope.com/commercial/needs/controls

DAIKIN

Control Systems

Control Systems

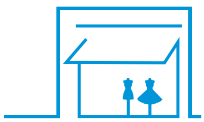
For latest data, please consult my.daikin.eu

Requirement tables per application

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	
	BRC1E53A/B/C	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s)	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)	●
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)					● (2)	●
Advanced energy management						● (2)	●
Allows free cooling						●	●
Integrate Daikin products cross pillars into Daikin BMS							●
Integrate third party products into Daikin BMS						●	●
Online control						● (2)	●
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

Hotel

	Unit control	Integrating control		Advanced control	
	BRC2/3E52C	RTD-HO	KLIC-DI	DCS601C51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 iTC for 64 indoor unit(s) (groups)	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				●	●
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	
	BRC1E53A/B/C	EKMBDXA	DMS504B51	DMS502A51 / DAM412B51	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 unit for 32 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●
Centralised control for management		●	●	●	●	●
Local control for office workers	●	●	●	●	●	●
Limit control possibilities for office workers	●				●	●
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	●					
Monitor energy consumption					● (4)	●
Advanced energy management					● (4)	●
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 needed to go to 256 indoor unit(s) (groups), 40 outdoors (3) ON/OFF only
(4) Via Daikin cloud service (5) Through own IT set-up (not Daikin cloud sever)

Infrastructure cooling

NEW

	Unit	Integrating		Advanced
	BRC1E53A/B/C	RTD-10	DTA113B51	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 adapter for op to 4 units	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 Seasonal Smart outdoor units. (3) See option list of indoor unit

ARC4*/BRC4*/BRC7*

Infrared remote control

ARC466A1

BRC4*/BRC7*

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

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

BRC073

Wired remote control for Split

BRC073

› User friendly remote control with contemporary design
› Easy to use: all main functions directly accessible
› Easy commissioning: intuitive interface for advanced menu settings
› Optimise your air conditioning system by activating a series of energy saving functions (temperature range limit, setback function, off timer, …)
› Set up to 3 independent schedules, so the user can easily change the schedule himself throughout the year (e.g. summer, winter, mid-season)
› Real time clock with auto update to daylight saving time
› Supports multiple languages (English, German, French, Italian, Spanish, Portuguese, Dutch, Czech, Croatian, Hungarian, Slovenian, Romanian, Bulgarian, Russian, Greek, Turkish, Polish, Serbian and Slovak) (depending on language package)
› Possibility to individually restrict menu functions
› Possibility to individually restrict each button
› Possibility to individually restrict each operation mode (Cooling, Heating, Auto, etc.)
› When a power failure occurs all settings remain stored up to 48 hours thanks to the built-in backup power and the clock remains running
› Setback operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy

Note : Cable for wired remote control BRCW901A03 (3m) or BRC-W901A08 (8m) required

BRC1D52

Wired remote control for Sky Air and VRV

› Schedule timer:
Five day actions can be set as follows:
  - set point: unit is switched ON and normal operation is maintained
  - OFF: unit is switched OFF1
  - limits: unit is switched ON and min./max. control (cf. limit operation for more details)
› Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
› User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
› Immediate display of fault location and condition
› Reduction of maintenance time and costs

Display

› Operating mode
› Heat Recovery Ventilation (HRV) in operation
› Cool / heat changeover control
› Centralised control indication
› Group control indication
› Set temperature
› Air flow direction
› Programmed time
› Inspection test / operation
› Fan speed
› Clean air filter
› Defrost / hot start
› Malfunction

NEW BRC1E53A/B/C

User friendly remote control with contemporary design for Sky Air and VRV

Graphical display of indicative electricity consumption (Function available in combination with FBQ-D, FCQG and FCGHQ)

A series of energy saving functions that can be individually selected

› NEW Demand control: decreases the power consumption to 70 or 40 % when other large applicances need to be switched on (1)
› Temperature range limit
› Setback function
› Presence & floor sensor connection (available on round flow and fully flat cassette)
› kWh indication
› Set temperature auto reset
› Off timer

Temperature range limit avoids excessive heating or cooling

Save energy by constraining the lower temperature limit in cooling and upper temperature limit in heating mode.

note : Also available in auto cooling/heating change over mode.

kWh indication keeps track of your consumption (2)

The kWh indication shows an indicative electricity consumption of the last day/month/year.

Other functions

› Up to 3 independent schedules can be set, so the user can easily change the schedule himself throughout the year (e.g. Summer, winter, mid-season)
› Possibility to individually restrict menu functions Easy to use: all main functions directly accessible
› NEW Choice of display between symbol or text
› Easy setup: clear graphical user interface for advanced menu settings
› NEW Remote control save mode : screen turns off when no person is changing mode or adjusting settings
› NEW Selection of quiet mode function for the outdoor unit (1)
› Real time clock with auto update to daylight saving time
› Built-in backup power: when a power failure occurs all settings remain stored up to 48 hours
› Supports multiple languages:
BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portugese
BRC1E53B: English, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian
BRC1E53C: English, Greek, Russian, Turkish, Polish, Slovak, Albanian

DUTY ROTATION

Cost-effective solution for infrastructure cooling applications

> Only in combination with RZQG*
> Duty rotation

After a certain period of time, the operating unit will go into standby and the standby unit will take over, increasing lifetime of the system

Rotation interval can be set from 6h, 12h, 24h, 72h, 96h, weekly

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

(1) Only available on Seasonal Smart RZQG*, RZAG* and Seasonal classic RZQSG*
(2) For Sky Air FBQ-D, FCQG and FCQHG pair combinations only

BRC2E52A / BRC3E52A

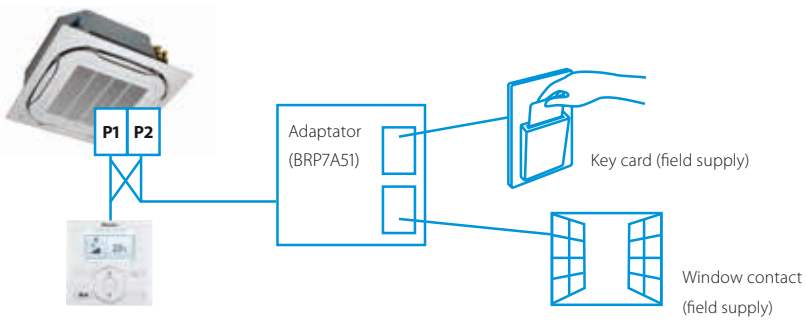
Simplified wired remote control developed for hotel applications

BRC2E52C
With operation mode selector

BRC3E52C
Without operation mode selector

› Symbol driven interface for intuitive control
› Functions restricted to basic customer needs
› Contemporary design
› Energy saving thanks key card, window contact integration and set point limitation (BRP7A51)
› Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort
› Flat backpanel for easy installation
› Easy commissioning: intuitive interface for advanced menu settings
› 2 versions available:
  • BRC3E52C: temperature, fan speed, ON/OFF
  • BRC2E52C: temperature, mode, fan speed, ON/OFF

Key card and window contact integration



Centralised control of the Sky Air and VRV system can be achieved via 3 user friendly compact remote controllers. These controls may be used independently or in combination with 1 group = several (up to 16) indoor units in combination and 1 zone = several groups in combination.
A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).
The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

DCS302C51

Centralised remote control

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

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

DST301B51

Schedule timer

Enabling 64 groups to be programmed.

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

DCS301B51

Unified ON/OFF control

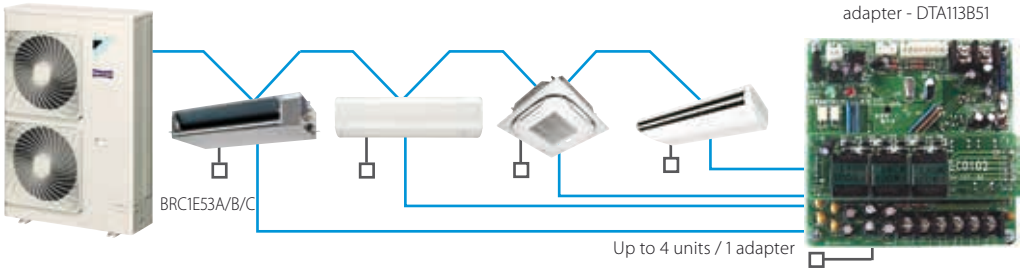
Providing simultaneous and individual control of 16 groups of indoor units.

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

DTA113B51

Basic solution for control of Sky Air and VRV

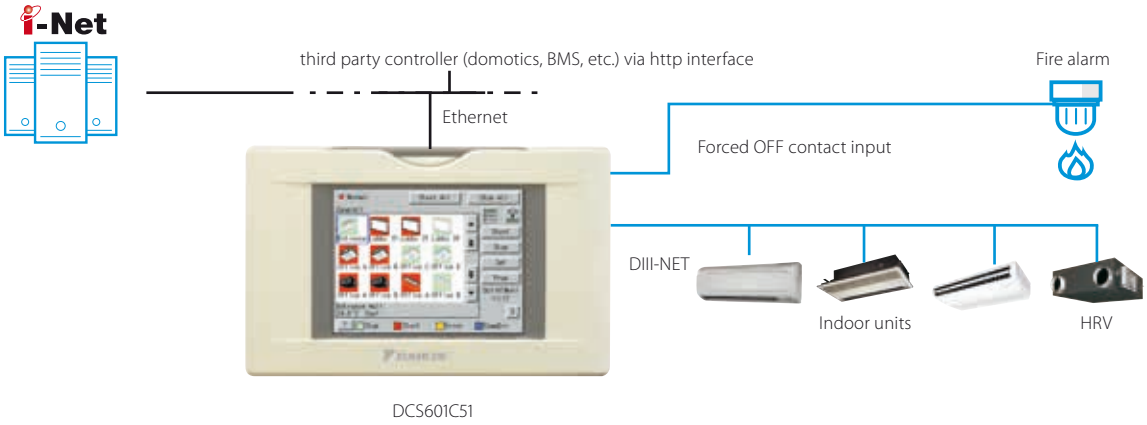
› Rotation function
› Backup operation function.



intelligent touch Controller

DCS601C51

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



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

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

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

Monitoring
› Visualisation via Graphical User Interface (GUI)
› Icon colour display change function
› Indoor units operation mode
› Indication filter replacement
› Multi PC

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)

intelligent Tablet Controller

DCC601A51

Advanced centralised controller with Cloud connection

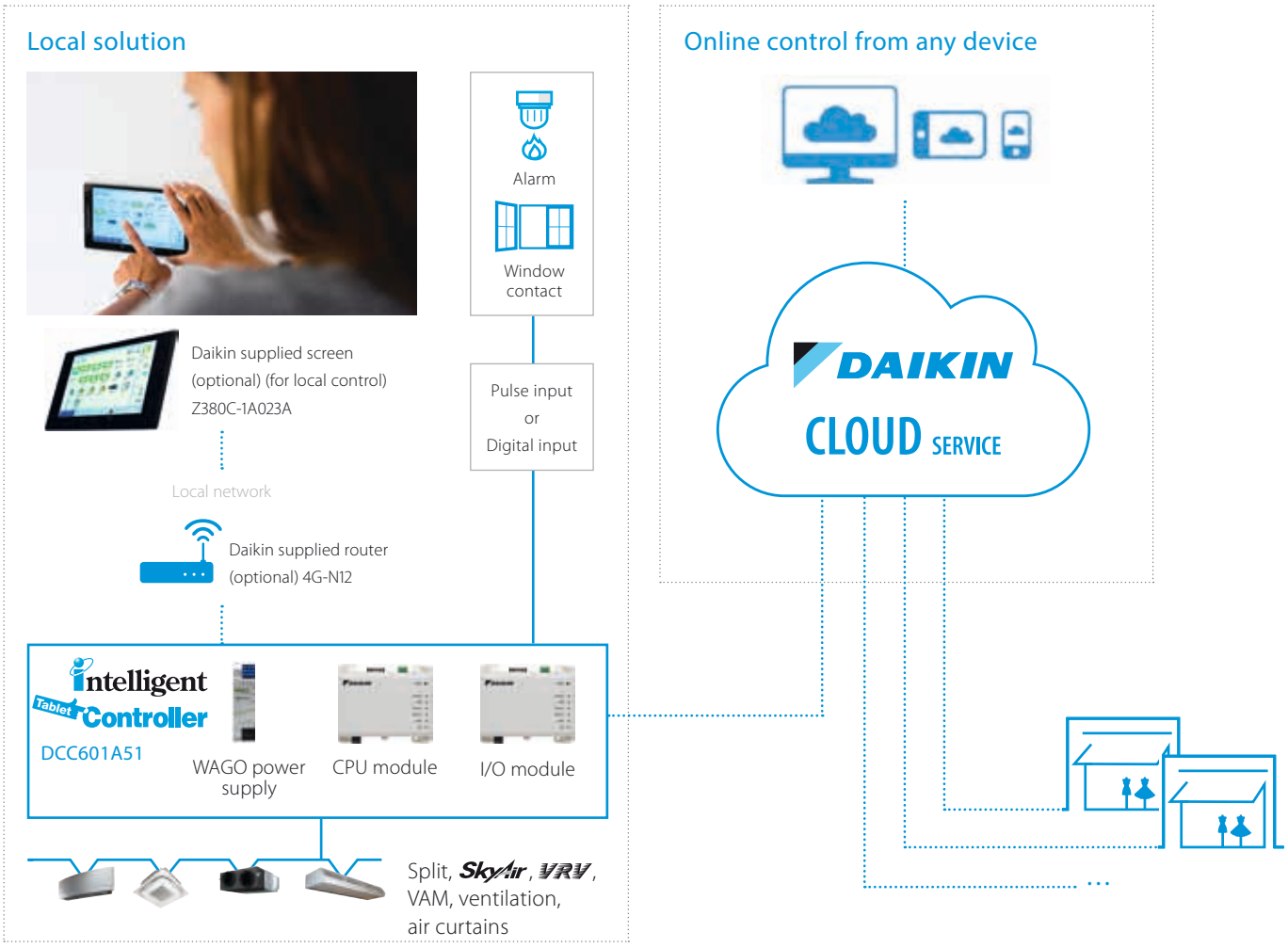
- Intuitive and user-friendly interface
- Flexible concept for stand alone and multi site applications
- Total solution thanks to integration of 3rd party equipment
- Monitor & control your small commercial building, no matter where you are

2 solutions:

Local solution
› Offline centralised control
› Stylish optional screen fits any interior

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

System layout



(1) For VRV

Total solution

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

Daikin Cloud Services

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

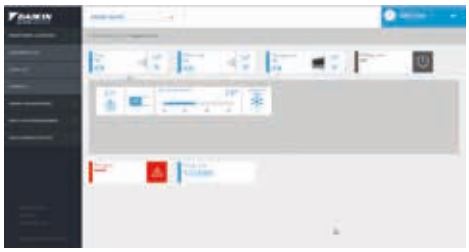
User friendly touch control

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

Flexible

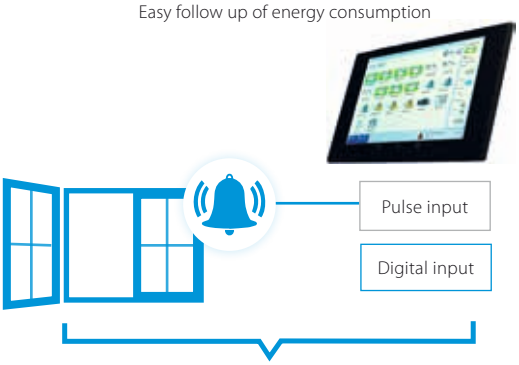
› Inputs via digital and pulse input for 3rd party equipment such as kWh meters, emergency input, window contact, …
› Modular concept allows your cloud to grow with your business
› Control up to 32 indoor unit (groups)

From one to ∞ sites



Intuitive control from the cloud

Easy follow up of energy consumption



Functions overview

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

For available Daikin Cloud Service options refer to the option list

Mini BMS

with full integration across all product pillars

DCM601A51

intelligent Manager

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

NEW

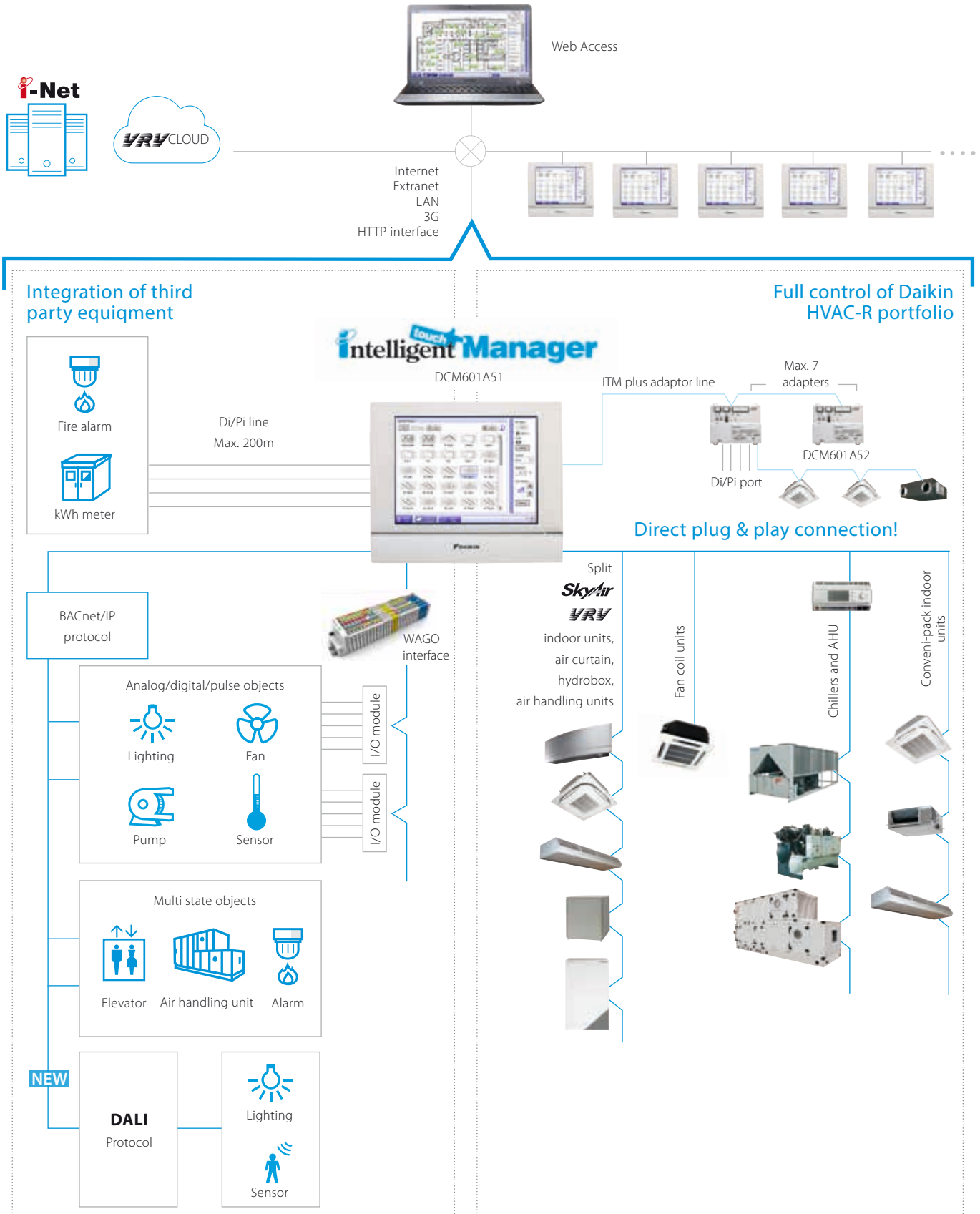
Download the WAGO selection tool from my.daikin.eu

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

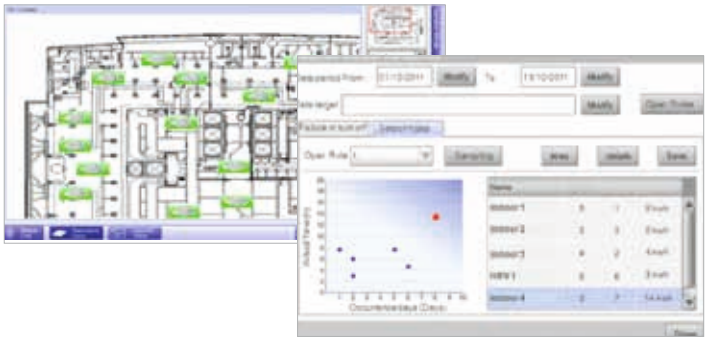
Check on YouTube

https://www.youtube.com/DaikinEurope

System overview



intelligent Manager



User friendliness

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

Smart energy management

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

Flexibility

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

Easy servicing and commissioning

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

Plug & play


Split

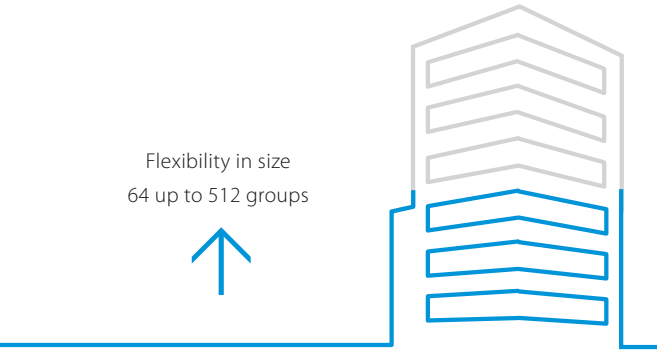

Sky Air

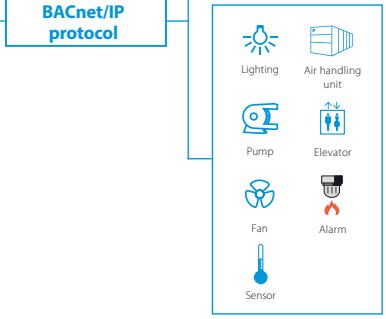

VRV


Fan coils


Chillers and AHU


Conveni-pack indoor units





Functions overview

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

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

WAGO Interface
› Modular integration of 3rd party equipment
- WAGO coupler (interface between WAGO and iTM)
- Di module
- Do module
- Ai module
- Ao module
- Thermistor module
- Pi module

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

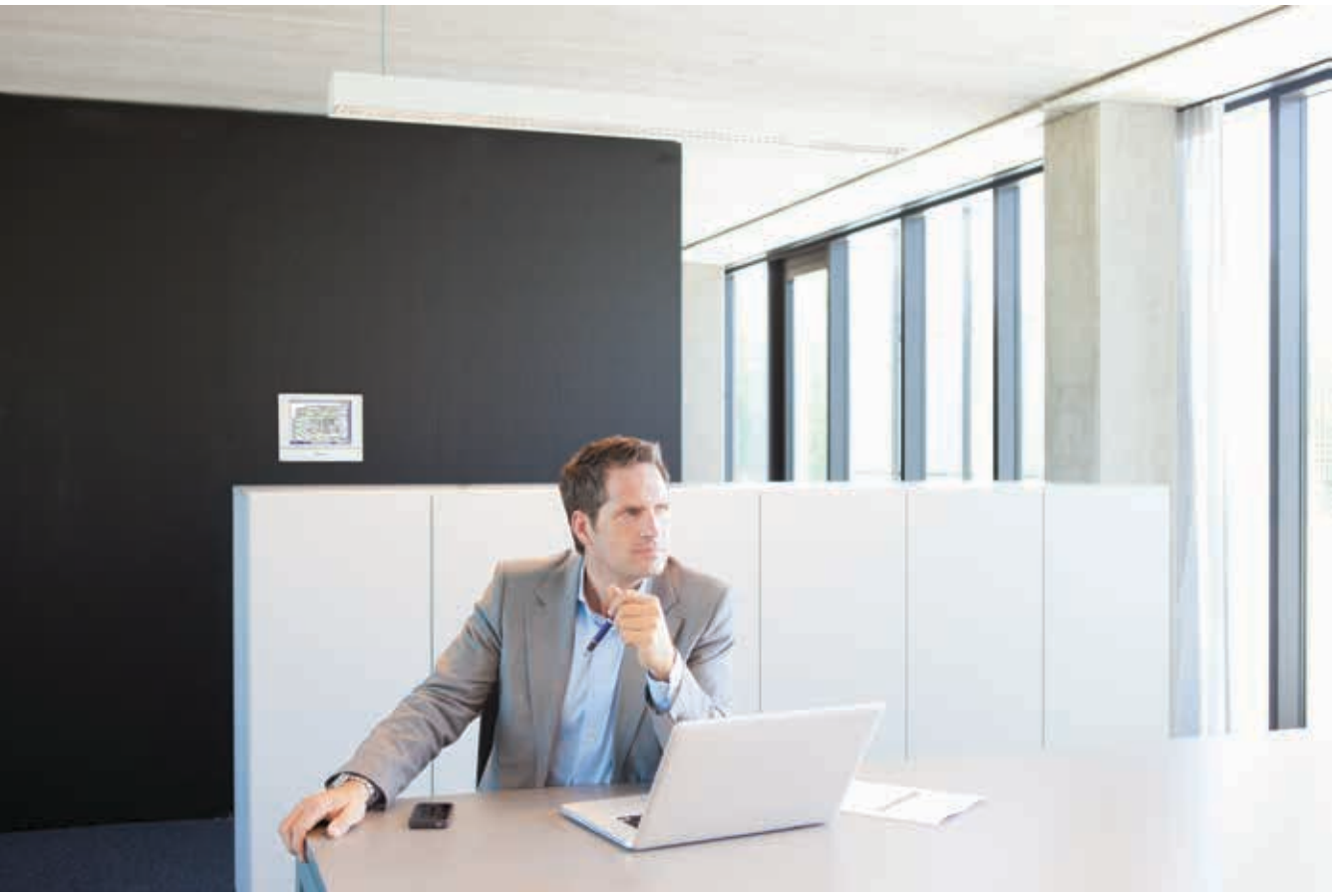
System layout
› Up to 512 unit groups can be controlled (ITM + 7 iTM Plus adapters)

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

NEW

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
- Chillers (via MT3-EKMBACIP controller)
- Daikin AHU
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol



Modbus Interface

RTD

RTD-RA
› Modbus interface for monitoring and control of residential indoor units

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

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

› Duty/standby function for server rooms

RTD-20
› Advanced control of Sky Air, VRV, VAM/VKM and air curtains
› Clone or independent zone control
› Increased comfort with integration of 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

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
nbr 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

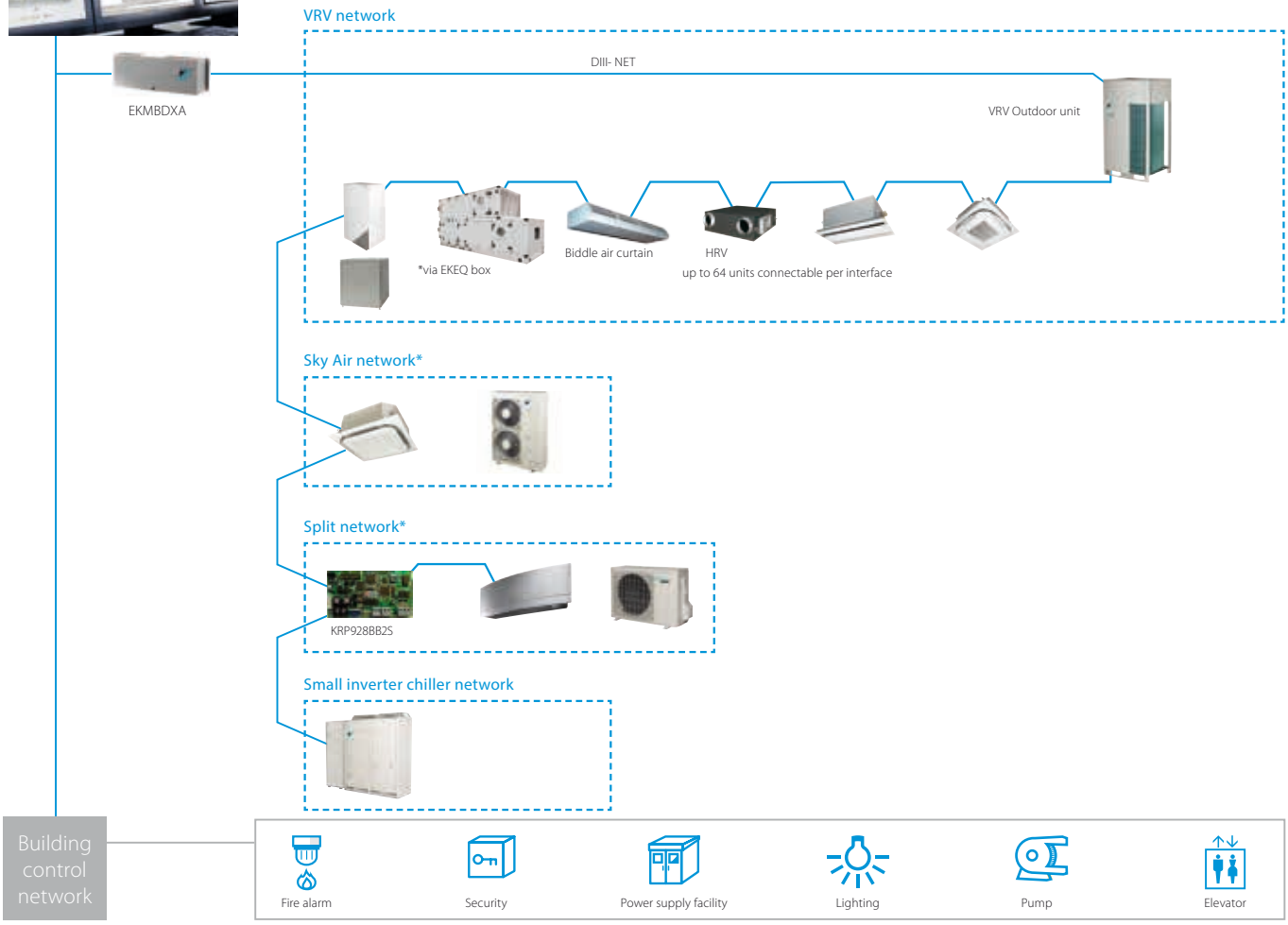
M : Modbus / R : Resistance / V : Voltage / C: control
* : only when room is occupied / ** : setpoint limitation / (*) if available
*** : no fan speed control on the CYV air curtain / **** : run & fault

DIII-net Modbus interface

EKMBDXA

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

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



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

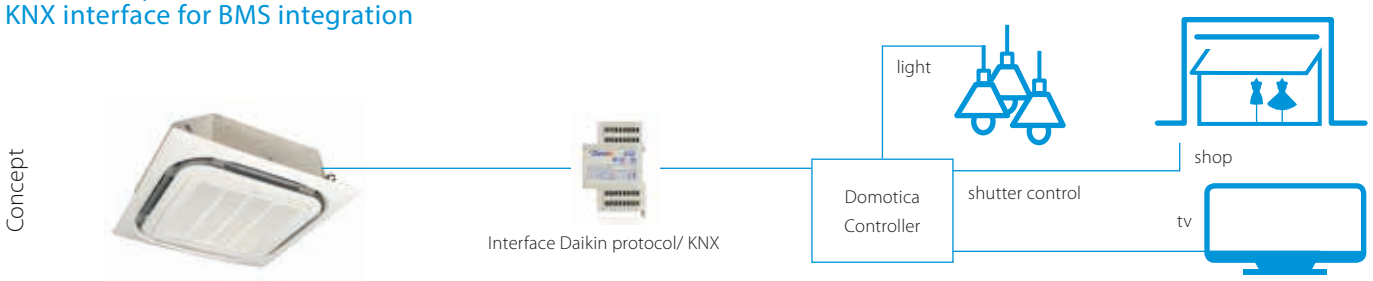
			EKMBDXA7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2,1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KNX interface

KLIC-DD
KLIC-DI

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 'scenario' - such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

KNX interface for

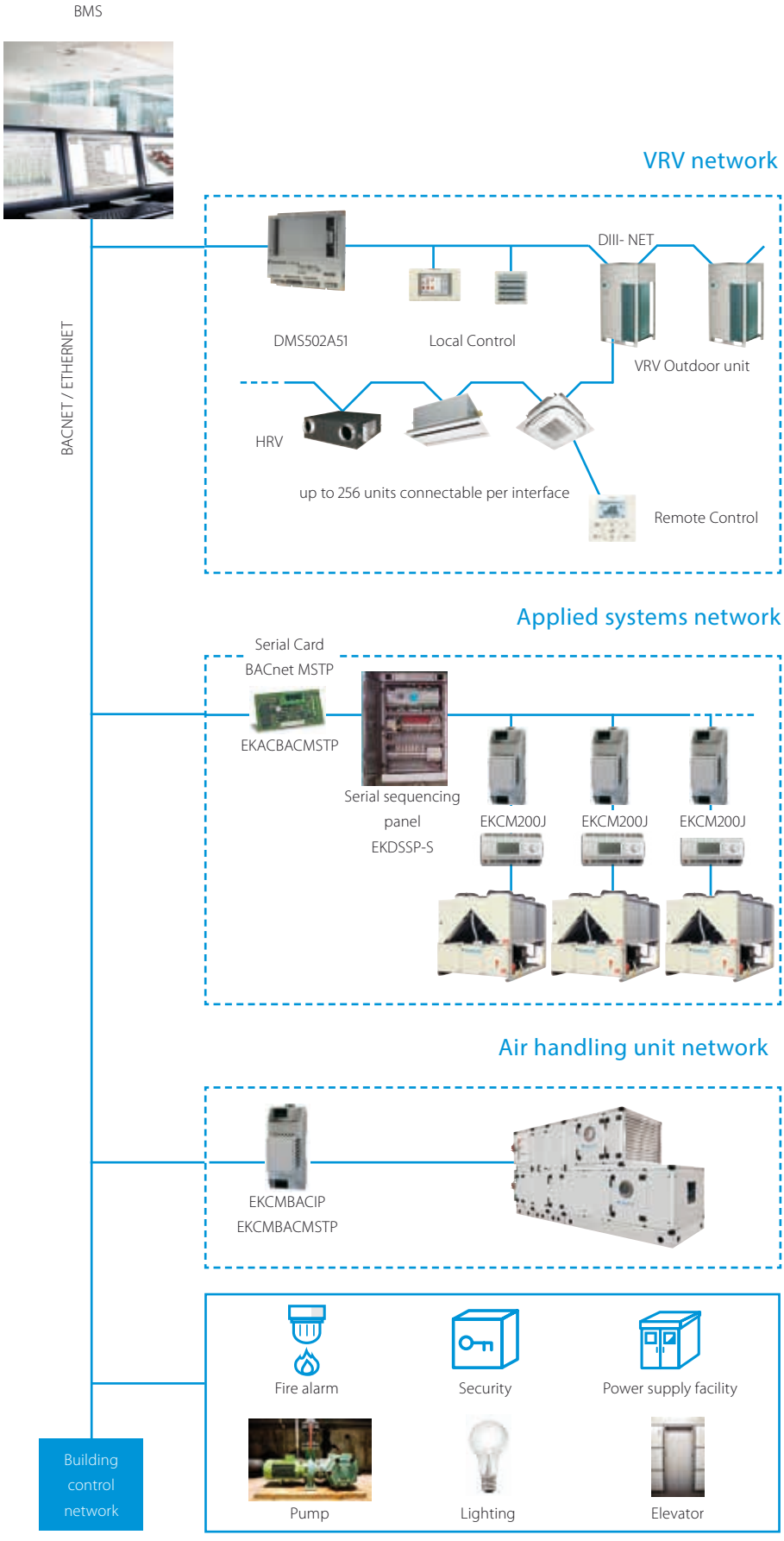
	 KLIC-DD Size 45x45x15mm	 KLIC-DI Size 90x60x35mm	
	Split	Sky Air	VRV
Basic control			
On/Off	●	●	●
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	●	●	●
Fan speed levels	3 or 5 + auto	2 or 3	2 or 3
Swing	Stop or movement	Stop or movement	Swing or fixed positions (5)
Advanced functionalities			
Error management	Communication errors, Daikin unit errors		
Scenes	●	●	●
Auto switch off	●	●	●
Temperature limitation	●	●	●
Initial configuration	●	●	●
Master and slave configuration		●	●

BACnet Interface

DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

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

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

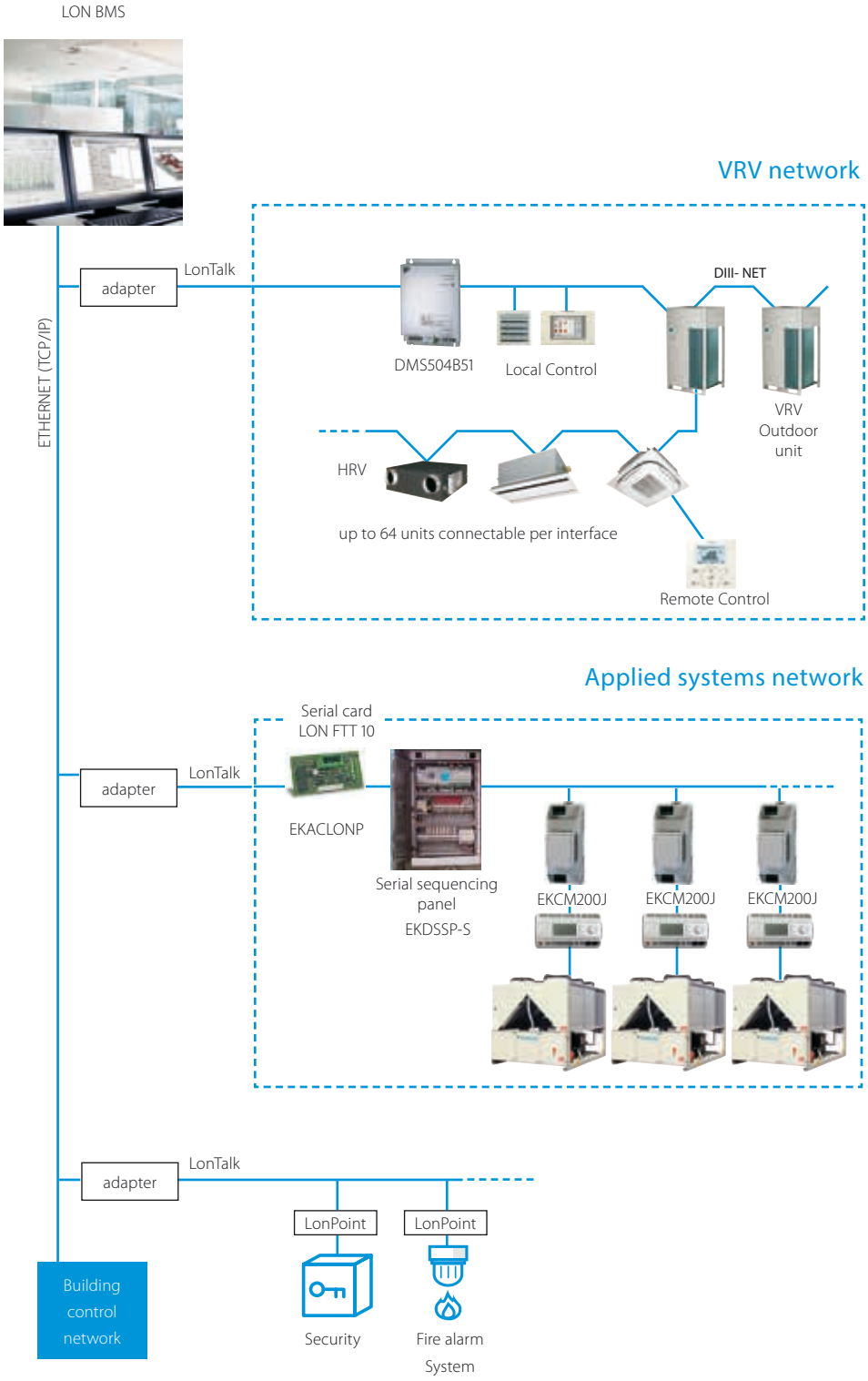


LonWorks Interface

DMS504B51 / EKACLONP

Open network integration of VRV and applied systems 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



Daikin Configurator Software

EKPCCAB3

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

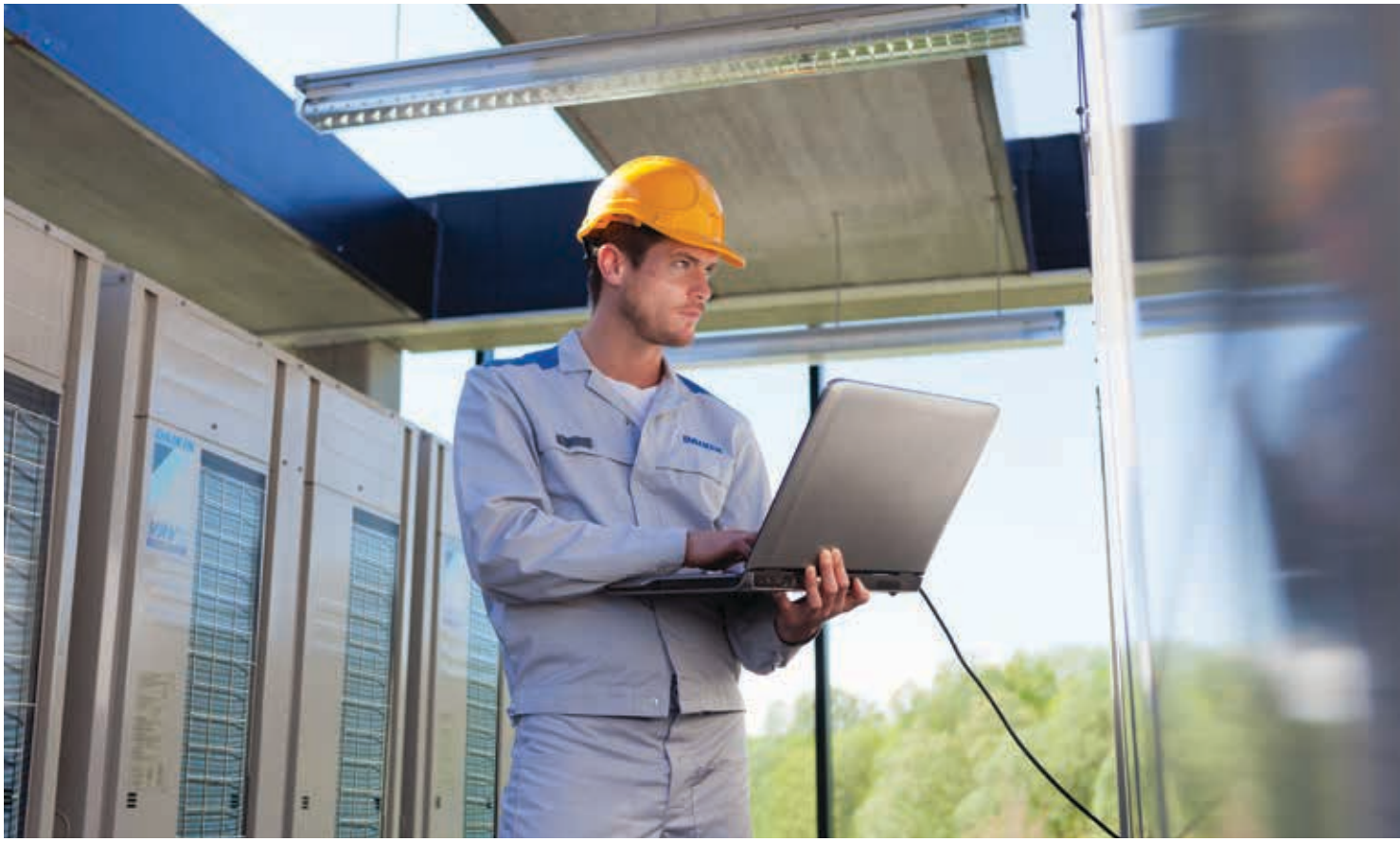
Simplified commissioning

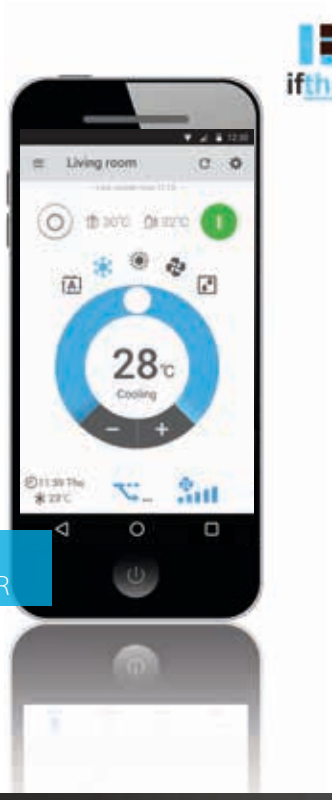
The Daikin configurator for Daikin Altherma and VRV is an advanced software solution that allows for easy system configuration and commissioning:

- 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





ONLINE CONTROLLER

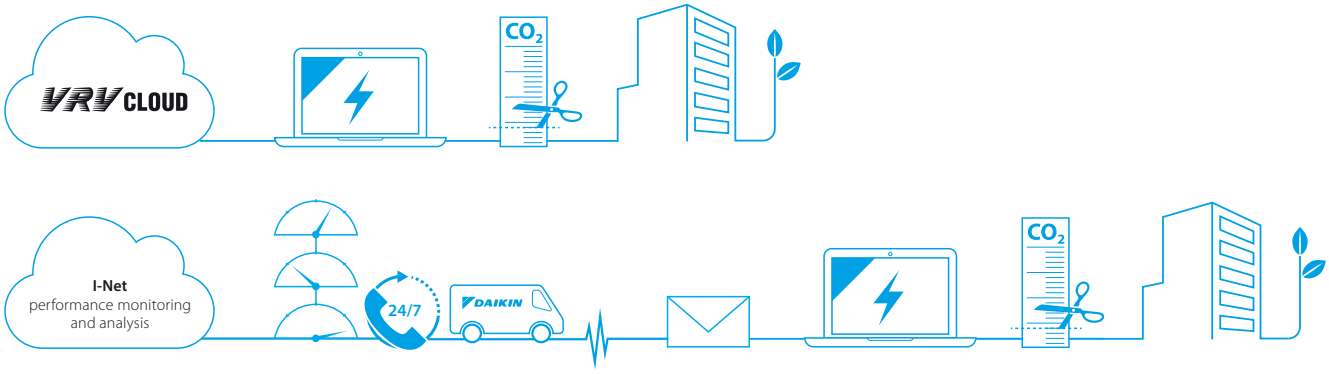
WIRED REMOTE CONTROL
BRC1E53A/B/C

INTELLIGENT
TOUCH MANAGER
DCM601A51

INFRARED REMOTE
CONTROLLER

What is I-Net?

A service based on our global remote monitoring technology, keeping your system trouble-free and working with top efficiency.



What does I-Net offer you

Safeguarding the lifelong optimum operation of your air conditioning system means getting geared up to operate the system in a energy efficient way and reduce unexpected breakdowns and costs to the absolute minimum. This is where I-Net helps to improve the effectiveness of your building management.

I-Net is about 'being connected' with Daikin, the Internet-based link between you, your air conditioning system and Daikin's Remote Monitoring Centre. This allows you to monitor your energy consumption and Daikin's expert service engineers to monitor your entire system's status non-stop, all year round. Through predicting malfunctions and offering technical advice from data analysis, you can maximise equipment uptime, as well as controlling energy costs with no sacrifice in comfort levels. By doing this, i-Net will prevent problems, prolong your system's service life while reducing the energy bill.

I-Net Services

i-Net consists of 2 main services: the VRV Cloud and I-Net performance monitoring and analysis.

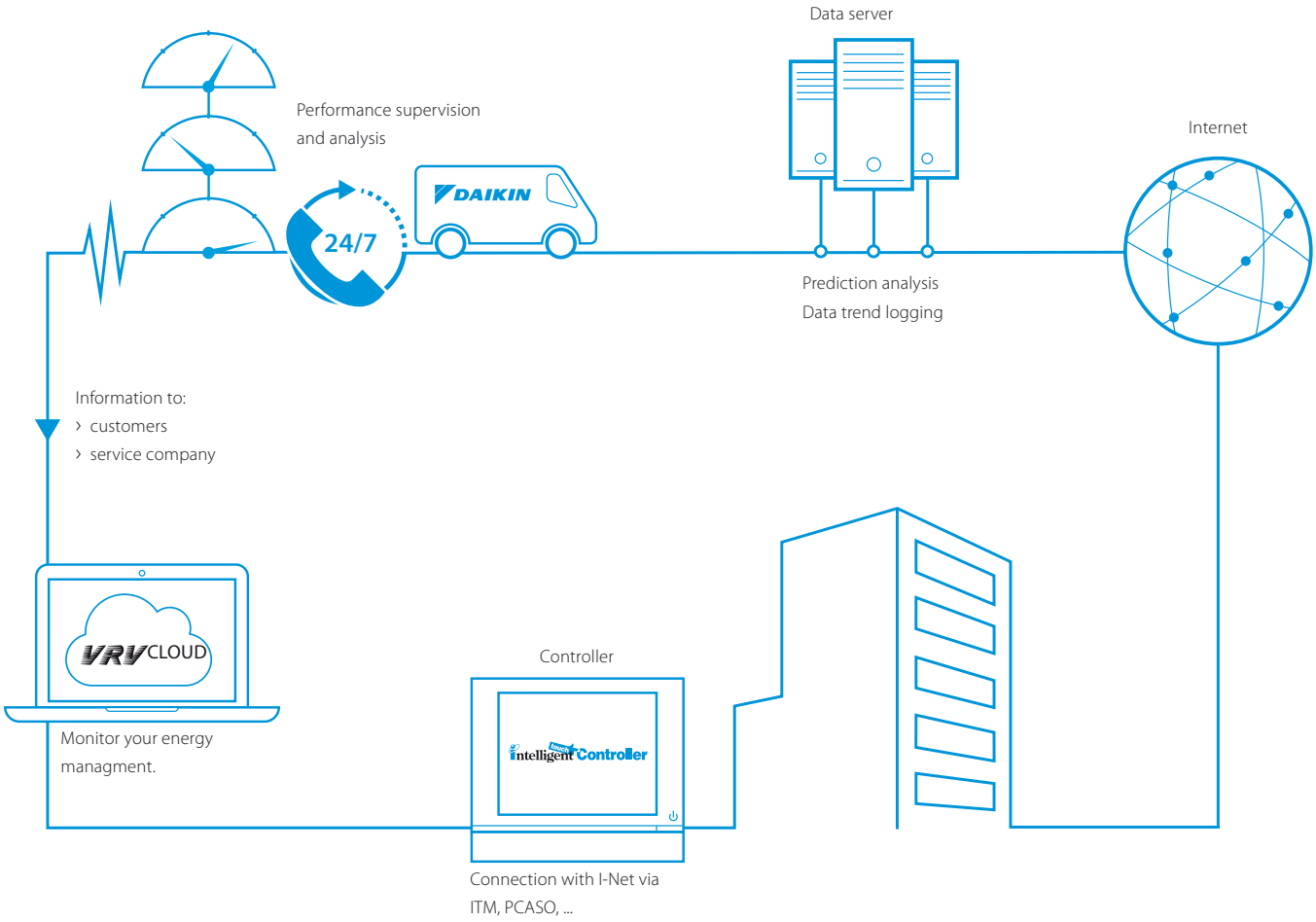
VRV Cloud

The VRV Cloud puts you in the driving seat of your energy management. The easy-to-use energy data trending and analytic tools puts you in control and shows you CO_2 footprint reduction opportunities and energy savings of up to 15%.

Saving starts by measuring. Enhance your company's sustainability !

I-Net performance monitoring and analysis

Focus on your core business and hand the HVAC over to Daikin. Daikin I-Net connects your system continuously with Daikin. It notifies alarms and early warnings of system deviations to maximise system uptime and the comfort of the people in the building. Service providers have webbased access to operation data so that they are fully prepared when they arrive on-site. Specialists run trend analyses. All of which boosts your system's reliability by ensuring that it is running at optimum efficiency.



i-Net

Daikin VRV Cloud

Helps you manage your energy through Daikin technology.

› Intelligent energy visualization tool that helps you with your energy management
› 24/7 online monitoring by the customer from any location.
› User friendly visualization of VRV energy management (kWh)
› Analysis support of waste operation
› Multiple site monitoring

Performance monitoring

Daikin's unique I-Net Service aims to prevent the equipment coming to an unexpected stop or needing emergency repair.

Fast response, better prepared

› If an alarm does occur, the service provider is immediately alerted and receives all crucial information.
› Early fault indication (predictions) : operation data are 24/7 checked by I-Net prediction algorithms to act as early as possible, averting unscheduled breakdowns.
› Performance Supervision by Daikin experts enhances a maintenance plan.
› This service aims to enhance the service level, to respond fast and accurate, to save on unexpected repair costs and assure the peace of mind. Repetitive interventions and disturbance of building tenants and maintenance teams are kept to a minimum.

Long lifetime systems

› I-Net will maximise the installation's lifetime, by assuring the equipment runs in optimal conditions and avoid unnecessary stress on components.

Analysis

Be connected with Daikin's experts, this gives you a clear overview of operability and use of the air conditioning system.

› Daikin continuously monitors energy, operation and comfort data. Thanks to periodic analysis of the data, Daikin can suggest ways of improving performance.
› if there is a problem, Daikin specialists will analyse the operation data history to provide remote support.

Wireless room temperature sensor

K.RSS

Flexible and easy installation

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

Connection diagram Daikin indoor unit PCB (FXSQ example)

Specifications

			Wireless room temperature sensor kit (K.RSS)	
			Wireless room temperature receiver	Wireless room temperature sensor
Dimensions		mm	50 x 50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	
Operation range		°C	0~50	
Communication	Type		RF	
	Frequency	MHz	868,3	

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

Wired room temperature sensor

KRCS01-1B
KRCS01-4B

› Accurate temperature measurement, thanks to flexible placement of the sensor

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) (KRP2A* via P1 P2) • Remotely start and stop up to 128 indoor units (64 groups) (KRP4A* via F1 F2) • Alarm indication/ fire shut down • Remote temperature setpoint adjustment • Cannot be used in combination with a central controller		●	●
	**KRP58M3**	• Low noise and demand control option for RZQ200/250C		●	
	**SB.KRP58M51**	• Low noise and demand control option for RZQG and RZQSG single phase • Includes mounting plate EKMKSA1		●	
	**KRP58M51**	• Low noise and demand control option for RZQG1 and RZQSG 3 phase		●	
	**DTA104A*** Outdoor Unit External Control Adapter	• Individual or simultaneous control of VRV system operating mode • Demand control of individual or multiple systems • Low noise option for individual or multiple systems			●
	**DCS302A52** Unification adapter for computerized control	• Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system • Must be used together with Intelligent Touch Controller or intelligent Touch Manager • Cannot be combined with KRP2/4* • Can be used for all VRV indoor models			●
	**KRP928*** Interface adapter for DIII-net	• Allows integration of split units to Daikin central controls	●		
	**KRP413*** Wiring adapter normal open contact / normal open pulse contact	• Switch off auto restart after power failure • Indication of operation mode / error • Remotely start /stop • Remotely change operation mode • Remotely change fan speed	●		
	**KRP980*** Adapter for split units without an S21 port	• Connect a wired remote control • Connect to Daikin central controls • Allow external contact	●		

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

Accessories

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

AUTO-CLEANING PANEL

FILTERS

INTELLIGENT SENSORS

Options & accessories

Options & accessories - VRV outdoor

		VRV IV Heat Recovery				
		REYQ 8~12T	REYQ 14~20T	REMQ5T	2-module systems	3-module systems
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system				BHFQ23P907	BHFQ23P1357
Kits	**Extended level difference kit** - Allows outdoor unit to be more than 50m above indoor units	Special order unit				
Kits	**Central drain pan kit** - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.					
Kits	**Heater tape kit** - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	EKBPH012T + EKBHPCBT	EKBPH020T + EKBHPCBT	EKBPH012T + EKBHPCBT		
Kits	**BHGP26A1** Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	●	●	●	1 kit per system	1 kit per system
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units				
Adapters	**KRC19-26A** Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.					
Adapters	**EBRP2B** - Cool/heat selector PCB					
Adapters	**BRP2A81** Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor)					
Adapters	**KKSA26A560*** 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 KRC19-26A					
Others	**EKCHSC** - Cool/heat selector cable					
Others	**EKPCCAB3** VRV configurator	●	●	●	●	●
Others	**KKSB2B61*** Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.					
Others	**DTA109A51** DIII-net expander adapter	●	●	●	●	●
Others	**BPMKS967A2/A3** Branch provider (for connection of 2/3 RA indoor units)					
Others	**EKDK04** Drain plug kit					

		VRV IV S-series			
		RXYSCQ-T	RXYSQ4-6TV1	RXYSQ4-6TY1	RXYSQ8-12TY1
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system				
Kits	**Extended level difference kit** - Allows outdoor unit to be more than 50m above indoor units				
Kits	**Central drain pan kit** - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.				
Kits	**Heater tape kit** - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)				
Kits	**BHGP26A1** Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.				
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.				
Adapters	**KRC19-26A** Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.		●	●	
Adapters	**EBRP2B** - Cool/heat selector PCB		●		
Adapters	**BRP2A81** Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor)				
Adapters	**KKSA26A560*** 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 KRC19-26A		●	●	
Others	**EKCHSC** - Cool/heat selector cable			●	●
Others	**EKPCCAB3** VRV configurator	●	●	●	●
Others	**KKSB2B61*** Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.				
Others	**DTA109A51** DIII-net expander adapter				
Others	**BPMKS967A2/A3** Branch provider (for connection of 2/3 RA indoor units)	●	●	●	●
Others	**EKDK04** Drain plug kit		●	●	

VRV IV with continuous heating						VRV IV without continuous heating			
RYYQ8-12T (8)	**RYYQ14-20T**	**RYMQ8-12T**	**RYMQ14-20T**	**2-module systems**	**3-module systems**	**RXYQ8-12T 8**	**RXYQ14-20T**	**2-module systems**	**3-module systems**
				BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517
EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT	EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT			EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT		
●	●	●	●	1 kit per system	1 kit per system	●	●	1 kit per system	1 kit per system
DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units									
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
	●		●				●		
●	●	●	●	●	●	●	●	●	●
●	●					●	●		

VRV IV i-series SB.RKXYQ				VRV III-C Cold Region VRV			VRV Classic		
RDXYQ5	**RKXYQ8**	**RKXYQ5**	**RKXYQ8**	**RTSYQ 10PA**	**RTSYQ 14~16PA**	**RTSYQ 20PA**	**RXYCQ8A**	**RXYCQ10-14A**	**RXYCQ16-20A**
						BHFQ22P1007			
				KWC26B280	KWC26B450	2x KWC26B280	KWC26B160	KWC26B280	KWC26B450
EKDPRH1RDX	EKDPRH1RDX			BEH22A10Y1L	BEH22A18Y1L	2x BEH22A10Y1L			
				●	●	●	●	●	●
DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units									
		●	●				●	●	●
			●						
		●	●				●	●	●
		●							
		●	●						
				●	●	●	●	●	●

Options & accessories - VRV outdoor

		VRV IV-Q Heat Pump Replacement VRV				
		RQYQ 140P	RXYQQ8-12T	RXYQQ14-20T	2-module systems	3-module systems
Kits	**Multi-module connection kit (obligatory)** Connects multiple modules into a single refrigerant system				BHFQ22P1007	BHFQ22P1517
	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	KWC26B160				
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)		EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT		
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	●	●	●	1 kit per system	1 kit per system
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units				
	KRC19-26A Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	●	●	●	1 kit per system	1 kit per system
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor)		●	●	●	●
	KKSA26A560* - 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 KRC19-26A	●	●	●	1 kit per system	1 kit per system
	EKPCCAB3 VRV configurator		●	●	●	●
	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			●		
	DTA109A51 DIII-net expander adapter	●	●	●	●	●

Refnets & branch selector boxes

		Refnet Joints				Refnet Headers	
		Capacity index < 200	Capacity index 200 ≤ x < 290	Capacity index 290 ≤ x < 640	Capacity index > 640	Capacity index < 290	Capacity index 290 ≤ x < 640
Refnets	Metric-size connections for heat pump systems (2-pipe)	KHRQM22M20T	KHRQM22M29T	KHRQM22M64T	KHRQM22M75T	KHRQM22M29H	KHRQM22M64H
	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20T	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHRQ22M29H	KHRQ22M64H
	Metric-size connections for heat recovery systems (3-pipe)	KHRQM23M20T	KHRQM23M29T	KHRQM23M64T	KHRQM23M75T	KHRQM23M29H	KHRQM23M64H
	Imperial-size connections for heat recovery systems (3-pipe)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	KHRQ23M29H	KHRQ23M64H
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	**EKBSVQLNP** Sound reduction kit (sound insulation)						
	KHFP26A100C Closed pipe kit						
	KHRP26A1250C Joint kit						
	Quiet kit						

VRV III-Q Heat Recovery Replacement VRV				VRV-W IV Water-cooled VRV				
					Heat Pump application		Heat Recovery application	
RQEQ 140~212	2-module systems	3-module systems	4-module systems	RWEYQ8-10T8	2-module systems	3-module systems	2-module systems	3-module systems
	BHFP26P36C	BHFP26P63C	BHFP26P84C		BHFQ22P1007	BHFQ22P1517	BHFQ23P907	BHFQ23P1357
KWC26B160	1 kit per module	1 kit per module	1 kit per module					
•	1 kit per system	1 kit per system	1 kit per system					

DTA104A53/61/62
Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units

				•	1 kit per system	1 kit per system		
				•	1 kit per system	1 kit per system		
				•	1 kit per system	1 kit per system		
				•	•	•	•	•
•	•	•	•	•	•	•	•	•

	Heat Recovery Branch Selector Boxes (BS-Boxes)						
Capacity index	1-port	4-port	6-port	8-port	10-port	12-port	16-port
> 640	BS1Q-A	BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1
KHRQM22M75H							
KHRQ22M75H							
KHRQM23M75H							
KHRQ23M75H							
	•						
		•	•	•	•	•	•
		•	•	•	•	•	•
		KDDN26A4	KDDN26A8	KDDN26A8	KDDN26A12	KDDN26A12	KDDN26A16

Options & accessories - VRV indoor

		Ceiling mounted cassette units				
		Round flow (800x800)	4-way (600x600)	2-way blow		
		FXFQ 20~125A	FXZQ 15~50A	FXCQ 20~40A	FXCQ 50~63A	FXCQ 80 ~125A
Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	BYCQ140DG (self clean) *5/*6 BYCQ140DGF (fine mesh) *5/*6 BYCQ140DW (white) *3 BYCQ140D7W1 (Standard)	BYFQ60CW (white panel) BYFQ60CS (grey panel) BYFQ60B3 (Standard panel)	BYBCQ40H	BYBCQ63H	BYBCQ125H
	Panel spacer for reducing required installation height		KDBQ44B60 (Standard panel)			
	Sealing kit for 3- or 2-directional air discharge	KDBHQ55B140 *7	BDBHQ44C60 (white & grey panel)			
	Sensor kit	BRYQ140A	BRYQ60AW (white panel) BRYQ60AS (grey panel)			
Individual control systems	Infrared remote control including receiver	BRC7FA532F	BRC7F530W *9*10 (white panel) BRC7F530S *9*10 (grey panel) BRC7EB530 *9*10 (standard panel)	BRC7C52	BRC7C52	BRC7C52
	BRC1E53A/B/C Premium wired remote control with full-text interface and back-light	•	•	•	•	•
	BRC1D52 *4 Standard wired remote control with weekly timer	•	•	•	•	•
	BRC2E52C Simplified remote control (with operation mode button)	•	•	•	•	•
	BRC3E52C Simplified remote control (without operation mode button)	•	•	•	•	•
Centralised control systems	**DCC601A51** Intelligent Tablet Controller	•	•	•	•	•
	DCS601C51 *12 intelligent Touch Controller	•	•	•	•	•
	DCS302C51 *12 Central remote control	•	•	•	•	•
	DCS301B51 *12 *13 Unified ON/OFF control	•	•	•	•	•
	DST301B51 *12 Schedule timer	•	•	•	•	•
Building management system + standard protocol interface	**DCM601A51** Intelligent Touch Manager	•	•	•	•	•
	EKMBDXA DIII-net modbus interface	•	•	•	•	•
	KLIC-DI KNX interface	•	•	•	•	•
	DMS502A51 BACnet interface	•	•	•	•	•
	DMS504B51 LowWorks interface	•	•	•	•	•
Filters	Replacement long life filter, non-woven type	KAFP551K160	KAFQ441BA60	KAFP531B50	KAFP531B80	KAFP531B160
	Auto cleaning filter	see decoration panel				
Adapters	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 *2*7	KRP4A53 *2	KRP4A51	KRP4A51	KRP4A51
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)	KRP1B57 *2*7	KRP1B57			
	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C11 *2*7	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2
	Adapter for wiring (interlock for fresh air intake fan)					
	Wiring adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A51	KRP2A51	KRP2A51
	External control adapter for outdoor unit (installation on indoor unit)			DTA104A61	DTA104A61	DTA104A61
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61			
	Digital input adapter *2/11	BRP7A53	BRP7A53	BRP7A51	BRP7A51	BRP7A51
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98 *7	KRP1A101	KRP1C96	KRP1C96	KRP1C96
	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4
	K.RSS External wireless temperature sensor	•	•	•	•	•
	Connector for forced-off contact	Standard	Standard	Standard	Standard	Standard
Others	Multi zoning kit					
	Drain pump kit	Standard	Standard	Standard	Standard	Standard
	Fresh air intake kit	KDDQ55B140-1 + KDDQ55B140-2 *7*8	KDDQ44XA60			
	Air discharge adapter for round duct					
	Filter chamber for bottom suction			KDDFP53B50	KDDFP53B80	KDDFP53B160

*1 pump station is necessary for this option
*2 Installation box is necessary for these adapters
*3 The BYCQ140D7W1W 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 BYCQ140D7W1W 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 BYCQ140D7GW1 the controller BRC1E is needed
*6 The BYCQ140DGW1 is not compatible with Multi and Split Non-Inverter Outdoor units
*7 Option not available in combination with BYCQ140D7GW1
*8 Both parts of the fresh air intake are needed for each unit
*9 Sensing function not available
*10 Independently controllable flaps function not available
*11 Only possible in combination with simplified remote control BRC2/3E
*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

		Concealed ceiling units (duct units)						
Corner (1-way blow)		Small	Slim	Standard				
FXKQ 25~40MA	FXKQ 63MA	FXDQ 20~25 M9	FXDQ 15~63A	FXSQ 15~32A	FXSQ 40~50A	FXSQ 63~80A	FXSQ 100~125A	FXSQ 140A
BYK45F	BYK71F							
BRC4C61	BRC4C61	BRC4C62	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
KRP4A51	KRP4A51	KRP4A51	KRP4A54	KRP4A52*2	KRP4A52*2	KRP4A52*2	KRP4A52*2	KRP4A52*2
KRP1B61	KRP1B61	EKRP1B2	KRP1B56	EKRP1B2*2	EKRP1B2*2	EKRP1B2*2	EKRP1B2*2	EKRP1B2*2
KRP2A51	KRP2A51	KRP2A51	KRP2A53	KRP2A51*2	KRP2A51*2	KRP2A51*2	KRP2A51*2	KRP2A51*2
DTA104A61	DTA104A61	DTA104A61	DTA104A53	DTA104A61	DTA104A61	DTA104A61	DTA104A61	DTA104A61
		EKMTAC	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61
BRP7A51	BRP7A51	BRP7A54	BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A51	BRP7A51
			KRP1B101	KRP1BA101/ KRP1B100	KRP1BA101/ KRP1B100	KRP1BA101/ KRP1B100	KRP1BA101/ KRP1B100	KRP1BA101/ KRP1B100
KRCS01-1	KRCS01-1	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4
•	•	•	•	•	•	•	•	•
Standard	Standard	Standard		Standard	Standard	Standard	Standard	Standard
Standard	Standard	KDAJ25K56	Standard	Standard	Standard	Standard	Standard	Standard
				KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	

		Concealed ceiling units (duct units)				
		High efficiency		Large		
		FXMQ 50~80	FXMQ 100~125	FXMQ 200~250	FXTQ50~63	FXTQ80~100
Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)					
	Panel spacer for reducing required installation height					
	Sealing kit for 3- or 2-directional air discharge					
	Sensor kit					
Individual control systems	Infrared remote control including receiver	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65
	BRC1E53A/B/C Premium wired remote control with full-text interface and back-light	•	•	•	•	•
	BRC1D52 *4 Standard wired remote control with weekly timer	•	•	•	•	•
	BRC2E52C Simplified remote control (with operation mode button)	•	•	•	•	•
	BRC3E52C Simplified remote control (without operation mode button)	•	•	•	•	•
Centralised control systems	**DCC601A51** Intelligent Tablet Controller	•	•	•	•	•
	DCS601C51 *12 intelligent Touch Controller	•	•	•	•	•
	DCS302C51 *12 Central remote control	•	•	•	•	•
	DCS301B51 *12 *13 Unified ON/OFF control	•	•	•	•	•
	DST301B51 *12 Schedule timer	•	•	•	•	•
Building management system + standard protocol interface	**DCM601A51** Intelligent Touch Manager	•	•	•	•	•
	EKMBDXA DIII-net modbus interface	•	•	•	•	•
	KLIC-DI KNX interface	•	•	•		
	DMS502A51 BACnet interface	•	•	•	•	•
	DMS504B51 LowWorks interface	•	•	•	•	•
Filters	Replacement long life filter, non-woven type					
	Auto cleaning filter					
Adapters	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A51	KRP4A51	KRP4A51	KRP4A52 *2	KRP4A51
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)					
	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1B2	EKRP1B2	KRP1B61	EKRP1B2 *2	KRP1B61
	Adapter for wiring (interlock for fresh air intake fan)					
	Wiring adapter for external central monitoring/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51	KRP2A51 *2	KRP2A51
	External control adapter for outdoor unit (installation on indoor unit)	DTA104A61	DTA104A61	DTA104A61	DTA104A61	DTA104A61
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61		DTA114A61	
	Digital input adapter *2/11	BRP7A51	BRP7A51	BRP7A51	BRP7A51	BRP7A51
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP4A96	KRP4A96		KRP1BA101 / KRP1B100	
	External wired temperature sensor	KRCS014	KRCS014	KRCS011	KRCS014	KRCS011
	K.RSS External wireless temperature sensor	•	•	•	•	•
	Connector for forced-off contact	Standard	Standard	Standard	Standard	Standard
Others	Multi zoning kit					
	Drain pump kit	Standard	Standard		Standard	
	Fresh air intake kit					
	Air discharge adapter for round duct	KDAJ25K71	KDAJ25K140		KDAP25A140A	
	L-type piping kit (for upward direction)					

*1 pump station is necessary for this option
*2 Installation box is necessary for these adapters
*3 The BYCQ140D7W1W 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 BYCQ140D7W1W 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 BYCQ140D7GW1 the controller BRC1E is needed
*6 The BYCQ140DGW1 is not compatible with Multi and Split Non-Inverter Outdoor units
*7 Option not available in combination with BYCQ140D7GW1
*8 Both parts of the fresh air intake are needed for each unit
*9 Sensing function not available
*10 Independently controllable flaps function not available
*11 Only possible in combination with simplified remote control BRC2/3E
*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

Ceiling suspended units				Wall mounted units	Floor standing units			
1-way blow			4-way blow		Concealed	Free-standing		
FXHQ 32A	FXHQ 63A	FXHQ 71~100A	FXUQ 71~100A	FXAQ 15~63	FXNQ 20~63	FXLQ 20~25	FXLQ 32~40	FXLQ 50~63
						EKRDP25A	EKRDP40A	EKRDP63A
			KDBHP49B140 + KDBTP49B140					
BRC7G53	BRC7G53	BRC7G53	BRC7C58	BRC7EB518	BRC4C65	BRC4C65	BRC4C65	BRC4C65
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•
•	•	•		•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
KAFP501A56	KAFP501A80	KAFP501A160	KAFP551K160					
KRP4A52	KRP4A52	KRP4A52	KRP4A53 *2	KRP4A51	KRP4A54	KRP4A51	KRP4A51	KRP4A51
KRP1B54	KRP1B54	KRP1B54						
					KRP1B56	KRP1B61	KRP1B61	KRP1B61
KRP2A62	KRP2A62	KRP2A62		KRP2A51	KRP2A53	KRP2A51	KRP2A51	KRP2A51
DTA104A62	DTA104A62	DTA104A62		DTA104A61				
				DTA114A61	DTA114A61	EKMTAC	EKMTAC	EKMTAC
BRP7A52	BRP7A52	BRP7A52	BRP7A53	BRP7A51	BRP7A51	BRP7A51	BRP7A51	BRP7A51
KRP1D93A	KRP1D93A	KRP1D93A	KRP1B97	KRP4A93				
KRCS014	KRCS014	KRCS014	KRCS014	KRCS011	KRSC014	KRCS011	KRCS011	KRCS011
•	•	•	•	•	•	•	•	•
EKRORO4	EKRORO4	EKRORO4	EKRORO5	Standard	Standard	Standard	Standard	Standard
KDU50P60	KDU50P140	KDU50P140		KKDU572EVE				
KDDQ50A140	KDDQ50A140	KDDQ50A140						
KHFP5M35	KHFP5N63	KHFP5N160						

	HXY080-125A8	HXHD125-200A8
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRP1HBAA	-
Demand PCB - Required to connect room thermostat	EKRP1AHTA	-
Remote user interface (remocon) - Same controller as supplied with cascade unit can be mounted parallel or on other location. If 2 controllers are installed, the installer needs to select 1 master & 1 slave	EKRUAHTB	-
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat - Requires demand PCB EKRP1AHTA	EKRTWA	-
Wireless room thermostat - Requires demand PCB EKRP1AHTA	EKRTR1	-
Remote sensor for room thermostat - Requires demand PCB EKRP1AHTA	EKRTETS	-
Domestic hot water tank - standard (stacked on top of hydrobox)	-	EKHTS200AC EKHTS260AC
Domestic hot water tank - with possibility for solar connection	-	EKHWP500B
Solar collector *1	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station	-	EKSRPS

Options - Stylish indoor

	INDOOR UNITS	R-410A					
		FDXM-F3	FTXG-LW/S	C/FTXS-K	FVXG-K	FVXS-F	FLXS-B(9)
Individual control systems	BRC1E53A/B/C (3)(4)(5) - Premium wired remote control with full-text interface and back-light	●					
	BRC073 (9) - Wired remote control (cord for wired remote control required)		●	●	●	●	●
	BRC2E52C - Simplified remote control (with operation mode selector button)						
	BRC2C51 - Simplified remote control	●					
	BRC3E52C - Simplified remote control (without operation mode selector button)	●					
	BRC3A61 - Remote control for hotel use						
	BRC4C65 - Infrared remote control	●(10)					
Centralised control systems	DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928*				●	●	●
	Online controller		BRP069A41	BRP069A43 (CTXS15-35, FTXS20-25) BRP069A42 (FTXS35-50)	BRP069A42	BRP069A42	BRP069A42
	DCS302C51 - Central remote control		●	●			
	DCS301B51 - Unified ON/OFF control		●	●			
	DST301BA51 - Schedule timer	●	●	●			
Building Management System & Standard protocol interface	DCM601A5A - Intelligent Touch Manager		●	●	●	●	●
	EKMBDXA - Modbus interface						
	RTD-RA (9) - Modbus gateway		●	●	●	●	●
	KLIC-DD (9) - KNX Interface		●	●	●	●	●
Adapters	BRP7A54 (7)(8) - Adapter PCB for interlock (key card, …)	●					
	BRP069A45 - WIFI adapter fro smart phone						
	KRP1B56 - Adapter for wiring	●					
	EKRP1B2 (6) - Adapter for wiring (hour meter)						
	KRP413A1S (9) - Adapter for wiring normal open contact/normal open pulse contact (time clock and other devices to be purchased locally)		●	●	●	●	●
	KRP4A54 - Adapter for external ON/OFF and monitoring for electrical appendices	●					
	KRP2A53 - Wiring adapter for electrical appendices	●					
	Installation box for adapter PCBs (when there is no space in the switchbox)	KRP1BA101					
	KRP980A1 - Interface adapter for wired remote control			class 15-20-25			
	KRP928A 2S (9) - Interface adapter for DIII-net		●	●	●	●	●
	DTA114A61 - Multi tenant	●					
	KRCS01-4 - External wired temperature sensor						
Filter	KEK26-1A - Noise filter (for electromagnetic use only)	●					
Others	Anti-theft protection for remote control		KKF910A4	KKF910A4	KKF910A4		
	KRCS01-4B - External wired temperature sensor	●					
	BRCW901A03 - Cord for wired remote control - 3m		●	●	●	●	●
	BRCW901A08 - Cord for wired remote control - 8m		●	●	●	●	●
	BKS028 - Installation leg				●		
	KDT25N32/KDT25N50/KDT25N63 - Installation kit for high humidity	●					
	KJB212A - Electrical box with earth terminal (2 blocks)	●					
	KJB311A - Electrical box with earth terminal (3 blocks)	●					

(1) Can be used only in combination with KRP980A1

(2) WLAN installation kit include interface adapter PCB

(3) BRC1E53A: included languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Portuguese, Polish

(4) BRC1E53B: included languages: English, German, Czech, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian

(5) BRC1E53C: included languages

(6) Installation box for adapter PCB is necessary. Hour meter is field supply and should not be installed inside the equipment.

(7) Installation box for adapter PCB is necessary. They require mounting plate KRP4A96, maximmaly 2 optional PCBs can be mounted.

(8) Only in combination with simplified remote control BRC2E52C or BRC3E52C.

(9) Wiring adapter supplied by Daikin. Time clock and other devices: to be purchased locally.

(10) Standard there is no remote control delivered with this indoor unit. Wired or infrared control to be ordered separately.

(11) Standard delivered with the unit.

*Note: blue cells combination to be confirmed

Options - Stylish indoor

	INDOOR UNITS	R-410A	R-410A				
		FCQHG-F FCQG-F	FFQ-C	FDBQ-B	FBQ-D	FDQ-B	FHQ-CB
Panels	Decoration panel (obligatory for cassette units, optional for others)	BYCQ140D (standard) BYCQ140DW (white)(1) BYCQ140DG/ BYCQ140DGF (auto-cleaning)(2)(4)	BYFQ60CW (white) BYFQ60CS (silver) BYFQ60B3 (standard)				
	Panel spacer for reducing required installation height		KDBQ44B60 (only for standard panel)				
	Sealing kit for 3- or 2-directional air discharge	KDBHQ55B140	BDBHQ44C60				
	Sensor kit	BRYQ140A	BRYQ60AW (white) (9) BRYQ60AS (silver)(9)				
Individual control systems	Infrared remote control (incl. receiver)	BRC7FA532F	BRC7EB530W - for standard panel (5)(6) BRC7F530W - for white panel (5)(6) BRC7F530S - for silver panel (5)(6)		BRC4C65	BRC4C65	BRC7G53
	BRC1E53A/B/C (3) - Premium wired remote control with full-text interface and back-light	●	●	●	●	●	●
	BRC1D52 - Standard wired remote control with weekly timer	●	●	●	●	●	●
	BRC2E52C - Simplified remote control (with operation mode selector button)	●	●	●	●	●	●
	BRC3E52C- Simplified remote control (without operation mode selector button)	●	●	●	●	●	●
	ARCWB - Wired remote controller						
Centralised control systems	DIII-net connection - for connection to centralized control	standard	standard	DTA112B51	standard	DTA112B51	standard
	DCC601A51 - Intelligent tablet controller	●	●	●	●	●	●
	DCS601C51 (11) - Intelligent touch controller	●	●	●	●	●	●
	DCS302C51 (11) - Central remote control	●			●	●	●
	DCS301B51 (11) (12) - Unified ON/OFF control	●			●	●	●
	DST301B51 (11) - Schedule timer	●			●	●	●
Building Management System & Standard protocol interface	DCM601A51 - Intelligent Touch Manager	●	●	●	●	●	●
	RTD-RA- Modbus interface for monitoring and 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	●	●	●	●	●	●
	EKMBDXA - Modbus interface	●	●	●	●	●	●
	KLIC-DI - KNX Interface	●	●	●	●	●	●
	DMS502A51 - BACnet Interface	●	●	●	●	●	●
	DMS504B51 - LonWorks Interface	●	●	●	●		
Filters	Replacement long-life filter, non-woven type	KAFP551K160	KAFQ441BA60				"KAFP501A56 (35-50) KAFP501A80 (60-71) KAFP501A60 (100-140)"
	Auto cleaning filter	see deco panel					
Adapter	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140 Ω	KRP4A53 (7)	KRP4A53 (7)		KRP4A52 (10)	KRP4A51 (11)	KRP4A52
	Wiring adapter with 2 output signals (compressor/ Error, Fan output)	KRP1B57 (7)	KRP1B57 (7)				
	Wiring adapter for external central monitoring/control (controls 1 entire system)				KRP2A51 (7)		
	Adapter for wiring (interlock for fresh air intake fan)				KRP1B54	KRP1B54 (11)	KRP1B54
	Wiring adapter with 4 output signals (compressor / Error, Fan, Aux, heater, Humidifier output)	EKRP1C11	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2 (10) (11)	
	Adapter for keycard or window contact connection (in combination with BRC2/3E* only)	BRP7A53	BRP7A53		BRP7A51 (11)(12)	BRP7A54 (11)(12)	BRP7A52 (12)(14)
	Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox, an installation box is required)	KRP1H98	KRP1BA101		KRP1BA101 (11)(12)	KRP4A96	"KRP1D93A [box) KKSAP50A56 (35-50) [mounting plate)"
	External wired temperature sensor	KRCS01-4B	KRCS01-4B	KRCS01-1B	KRCS01-4B	KRCS01-1B	KRCS01-4B
	K.RSS - External wireless temperature sensor	●	●	●	●	●	●
	Remote ON/OFF, forced OFF kit	standard	standard	standard	standard	EKRORO	EKRORO4
	DTA112B51 - Interface adapter for Sky Air					●	
Others	Drain pump kit						"KDU50P60VE (35-50) KDU50P140VE [71-140)"
	Multi zoning kit				3 dampers (35 - 50) 4 dampers (60 - 71) 5 dampers (100 - 125) 6 dampers (140)		
	L-type piping kit (upward direction)						"KHFP5MA35 (35) KHFP5N63 (50-60) KHFPN5N160 (71-140)"
	Fresh air intake kit (direct installation type)	KDDQ55B140-1 + KDDQ55B140-2	KDDQ44XA60				KDDQ50A140
	Air discharge adapter for round duct				KDAP25A56A (35-50) KDAP25A71A (60-71) KDAP25A140A [100-140)		

(1) Dirt formation is more easily visible on white insulation. It is recommended not to install this option in environments with a high concentration of dirt.
(2 To be able to control option BYCQ140DG(F), controller BRC1E is needed.
(3) Included languages are:
A: English, German, French, Dutch, Spanish, Italian and Portuguese
B: English, Bulgarian, Croation, Czech, Hungarian, Romanian and Slovakian
C: English, Greek, Polish, Russian, Serbian, Slovak and Turkis
(4) The option is intended exclusively for use in fine dust enviornments (e.g. Clothing shops). Do not use it in environments that are greasy or have high humidity.
(5) Sensing function is not available
(6) Individual flap control function not available
(7) If installing an electrical heater, an option PCB for external electrical heater (EKRP1B2) for each indoor unit is required.
(8) Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.
(9) Only possible to combine with simplified remote control BRC2E52C/BRC3E52C
(10) Requires installation box for adapter PCB

Options & accessories - Ventilation

		Heat reclaim ventilation - VAM									Heat reclaim ventilation VKM			Air handling unit applications		
		VAM 150FC	VAM 250FC	VAM 350FC	VAM 500FC	VAM 650FC	VAM 800FC	VAM 1000FC	VAM 1500FC	VAM 2000FC	VKM 50GB(M)	VKM 80GB(M)	VKM 100GB(M)	EKEQFCBA (1)	EKEQDCB (1)	EKEQMCBA (1)
Indiviual control systems	**BRC301B61** VAM wired remote control	●	●	●	●	●	●	●	●	●						
	BRC1E53A/B/C Premium wired remote control with full-tekst interface and back-light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	BRC1D52 Standard wired remote control with weekly timer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Centralised control systems	**DCC601A51** intelligent Tablet Controller	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	DCS302C51 Centralised remote control	●	●	●	●	●	●	●	●	●	●	●	●			
	DCS301B51 Unified ON/OFF control	●	●	●	●	●	●	●	●	●	●	●	●			
	DST301B51 Schedule timer	●	●	●	●	●	●	●	●	●	●	●	●			
Building Management System & Standard protocol interface	**DCM601A5A** Intelligent Touch Manager	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	EKMBDXA Modbus interface	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	DMS502A51 BACnet Interface	●	●	●	●	●	●	●	●	●	●	●	●			
	DMS504B51 LonWorks Interface	●	●	●	●	●	●	●	●	●	●	●	●			
Filters	EN779 Medium M6			EKAFV50 F6	EKAFV50 F6	EKAFV80 F6	EKAFV80 F6	EKAFV100 F6	EKAFV100 F6 x2	EKAFV100 F6 x2						
	EN779 Fine F7			EKAFV50 F7	EKAFV50 F7	EKAFV80 F7	EKAFV80 F7	EKAFV100 F7	EKAFV100 F7 x2	EKAFV100 F7 x2						
	EN779 Fine F8			EKAFV50 F8	EKAFV50 F8	EKAFV80 F8	EKAFV80 F8	EKAFV100 F8	EKAFV100 F8 x2	EKAFV100 F8 x2						
Silencer	Model name				KDDM24 B50	KDDM24 B100	KDDM24 B100	KDDM24 B100	KDDM24 B100 x2	KDDM24 B100 x2		KDDM24 B100	KDDM24 B100			
	Nominal pipe diameter (mm)				200	200	250	250	250	250		250	250			
CO_2 sensor				BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200	BRYMA65	BRYMA100	BRYMA200			
Electrical heater		VH1B	VH2B	VH2B	VH3B	VH3B	VH4B / VH4/AB	VH4B / VH4/AB	VH5B	VH5B						
Others	Wiring adapter for external monitroing/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)			
	Adapter PCB for humidifier	KRP50-2	KRP50-2	KRP1C4 (3/5)	KRP1C4 (3/5)	KRP1C4 (3/5)	KRP1C4 (3/5)	KRP1C4 (3/5)	KRP1C4 (3/5)	KRP1C4 (3/5)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)			
	Adapter PCB for third party heater	BRP4A50	BRP4A50	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (3/4)			
	External wired temperature sensor														KRCS01-1	

Notes
(1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, …; intelligent Touch Manager, EKMBDXA are allowed)
(2) Installation box KRP1BA101 needed
(3) Fixing plate EKMPVAM additionnally needed for VAM1500-2000
(4) 3rd party heater and 3rd party humidifier cannot be combined
(5) Installation box KRP50-2A90 needed

	VH electrical heater for VAM
Supply voltage	220/250V ac 50/60 Hz. +/-10%
Output current (maximum)	19A at 40°C (ambient)
Temperature sensor	5k ohms at 25°C (table 502 1T)
Temperature control range	0 to 40°C / (0-10V 0-100%)
Run on timer	Adjustable from 1 to 2 minutes (factory set at 1.5 minutes)
Control fuse	20 X5 mm 250 m A
LED indicators	Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes	98mm X 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box	35°C (during operation)
Auto high temp. cutout	100°C Pre-set
Man. reset high temp. cutout	125°C Pre-set
Run relay	1A 120V AC or 1A 24V DC
BMS setpoint input	0-10VDC

Vh electrical heater for vam		vH1B	VH2B	VH3B	VH4B	VH4/AB	VH5B
Capacity	kW	1	1	1	1,5	2,5	2,5
Duct diameter	mm	100	150	200	250	250	350
Connectable VAM		VAM150FC	VAM250FC	VAM500FC	VAM800FC	VAM800FC	VAM1500FC
		-	VAM350FC	VAM650FC	VAM1000FC	VAM1000FC	VAM2000FC

Intelligent Tablet Controller - DCC601A51

		Intelligent Controller		
		Options for local control	**Cloud options**	**Software**
Zenpad 8" Tablet for local control	Z380C	●	–	–
Asus 4G-N12 router	4G-N12	●	–	–
Online control - for remote montoring and control	DCC001A51	–	●	–
Multi site – for remote monitoring, control and comparison of multiple sites (needed for each site)	DCC002A51	–	●	–
Full – contains packs DCC001/002/003A51	DCC004A51	–	●	–
App for tablet – Application to run on Z380C tablet (download from Play store, Android only)		–	–	●
Commisioning tool		–	–	●
Software update tool		–	–	●

Intelligent Touch Manager

		Intelligent Manager
		Options & software
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	●

Standard protocol interfaces

		DMS502A51
		BACnet Interface
DIII-net expansion port (2 ports), connects up to 128 additional indoor units	DAM411B51	●
Digital pulse inputs (12) for PPD functionality	DAM412B51	●

Daikin Services

Saving energy doesn't stop with the purchase or installation of energy-efficient equipment; it has to be kept running under optimum conditions.

Good maintenance and servicing are key elements in ensuring the maximum performance.

Are you sure the filters are clean and none of the components are defective?
Are all of your settings correct?

Any of these things may lead to a reduced level of comfort. And while you may not notice the difference right away, you will certainly notice it at the end of the year – when you pay your energy bill.

Our Daikin design team is constantly striving to improve the energy efficiency of our systems.

We at Daikin Service are here to support you in keeping your units up and running efficiently by means of optimised commissioning and start-up, regular and preventative maintenance, remote monitoring, improving the performance of units, and providing cost effective upgrades to benefit from the efficiency gains from our latest state of the art technology.

Optimisation and upgrades

Intelligent remote monitoring


Upgrading / optimisation

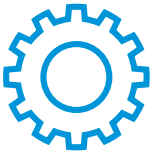
Keep the installation in top condition


Maintenance plan


Installation support


Commissioning

Parts and repairs


Spare parts


Repair service

Commissioning

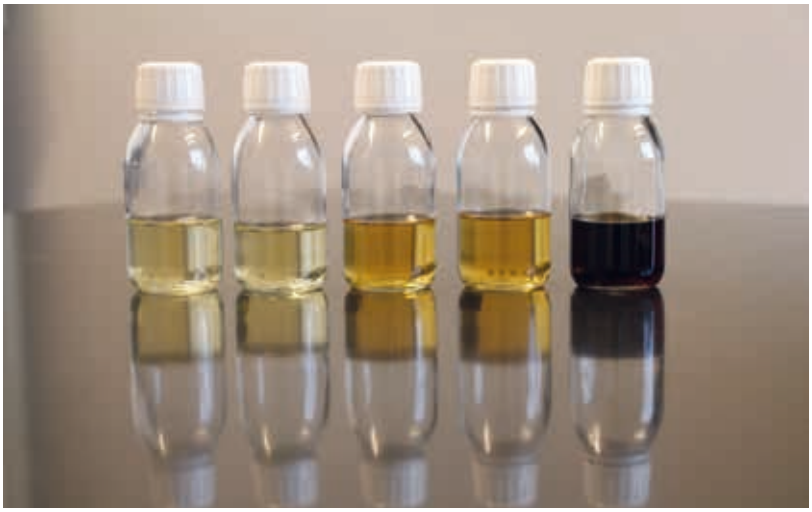
To guarantee your Daikin unit efficiency and long term performance, Daikin offers the professional start-up of your Daikin system by highly qualified, OEM educated engineers as part of the commissioning services.

Commissioning through an authorized Partner or by Daikin itself assures you that your unit is working as it should and is delivering all the benefits of a unique climate.

Every commissioning is documented as per Daikin standard and a detailed commissioning report is provided, detailing all activities done and recording the functioning of the units.

The prices listed are based on completion of the Pre-Commissioning checklist which covers a range of core activities including the general conditions at the site, provision of power and the required electrical distribution as well as installation related topics. This ensures that the service can be provided efficiently, on time and giving the best results. For the latest edition of the Pre-Commissioning checklist please visit: **www.daikin-ce.com**

Maintenance



Maintenance is the key element to ensure the quality, efficiency and flawless operation of any asset.
Our Care agreements are based on years of experience to ensure you reap the full benefits of having Daikin Certified engineers maintain your equipment.

Preventive maintenance and regular service is a key component in securing your investment.
Dust, temperature, humidity and load degrade the reliability and performance of a VRV system over time. Regular maintenance of a unit or system ensures that electricity costs and performance are not jeopardized, and that the safety features and the entire system are in line with the latest standards and regulations.

Regular care safeguards your investment for the full lifetime of the Daikin System. Downtime and failures are avoided, while keeping operating costs low, as they should be throughout the entire system lifecycle.

Preventive maintenance plans give you cost transparency avoiding unexpected repair costs or degradation of comfort, quality or production loss.

Daikin Cares contains 3 different levels of maintenance agreements catering to your every need. In addition to these 3 Care packages Daikin offers a comprehensive set of options you can choose from.

1. Care:

Care is the minimal requirement to fulfil current legislation requirements, and makes sure your VRV system is operating in a correct fashion and according to parameters.

The Care package includes the following services:

- Scheduled Inspections based on predefined activities
- Soft- and firmware upgrades as needed and if required
- Validated Log book

2. Preventive Care:

Preventive Care keeps the VRV system in optimal condition for a long time.

In addition to the maintenance activities included in the Care package, Preventive Care includes:

- Service based on predefined activities
- Optimizations and analysis of the retrieved data
- On-site VRV system diagnostic and/or analysis during service intervention
- Recorded, retrievable service history of each VRV system
- Lifecycle report
- Emergency support & callout
- Access to technical assistance and repair service

3. Extended Care:

Extended Care provides maximum equipment availability at the minimum Total Cost of Ownership.

In addition to the activities mentioned in the Preventive care package, Extended Care includes:

- Labor- & travel cost, spare parts for planned maintenances are included
- Labor- & travel cost, spare parts for repairs are included
- Refrigerant is also included
- Remote Predictive Performance monitoring & Analysis
- Extension of warranty

Options:
Energy audit & report using VRV Cloud
Remote monitoring I-Net
Remote analysis using state of the art Big Data tools
Fleet management for larger systems or multi-site systems using I-Tap Cloud
Specialist support and consultancy

E-Parts

Find the correct spare part for your Daikin unit, check availability (real-time) and order online.

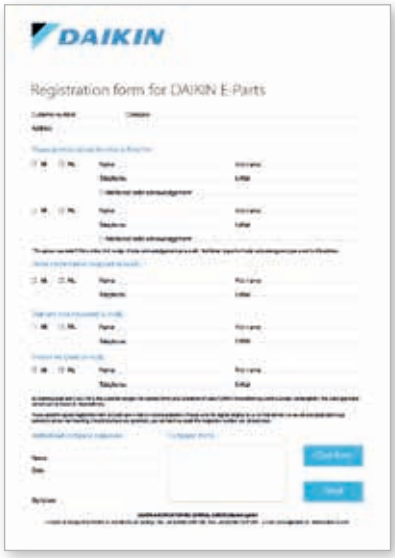
All in just a few simple steps.

Your benefits:

› fast handling
› free shipment
› 24/7 accessibility
› flexible delivery
› "real time" availability

Register now to use the E-Parts service

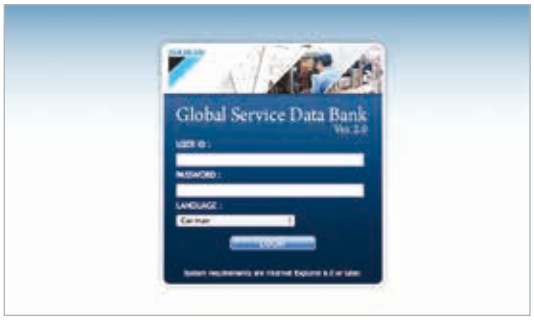
Create access for you and your colleagues.
- Simply go to **my.daikin.eu**
- download the registration form
- fill it in
- and send it back to Daikin (**service@daikin.XX**)



Always accessible for you

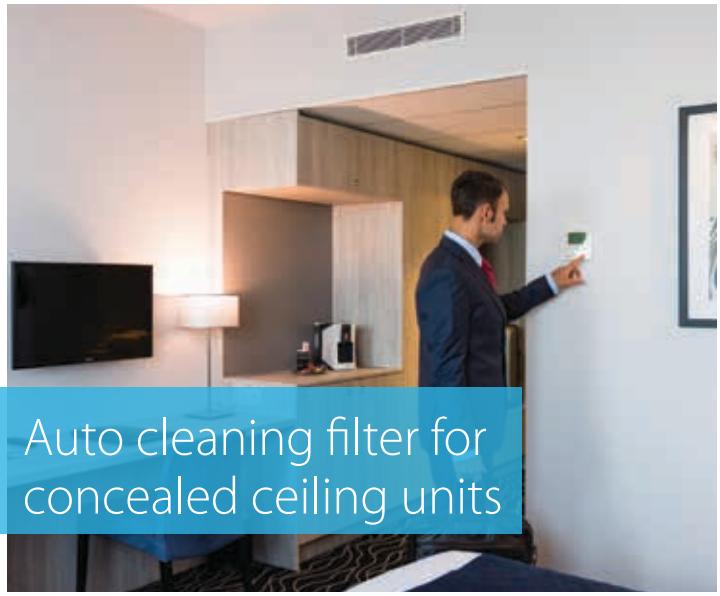
You can login directly or visit the E-Parts via the Business Portal:

http://eparts.daikin-ce.com



https://my.daikin.eu

In our Business Portal you can find the links to E-Parts and to the spareparts bank.



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A unique success story repeated

UNIQUE Patents pending

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- Improved room air quality
- Minimal time required for filter cleaning
- Unique technology

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Order AHU and outdoor in one step

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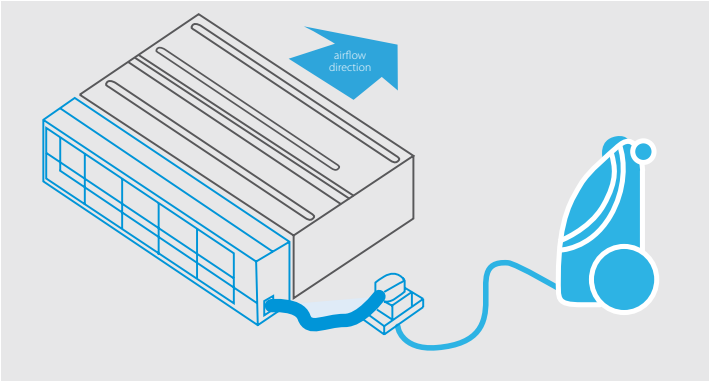
- Easy installation



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