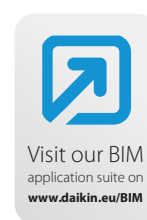


# VRV Portfolio

Includes  
**NEW VRV IV+**  
ranges!

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





Our promise...

... is to ensure that 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 our 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-usage and we will innovate to further reduce the environmental impact of HVACR (Heating, Ventilation, Air conditioning, Refrigeration) solutions. We lead where others follow.

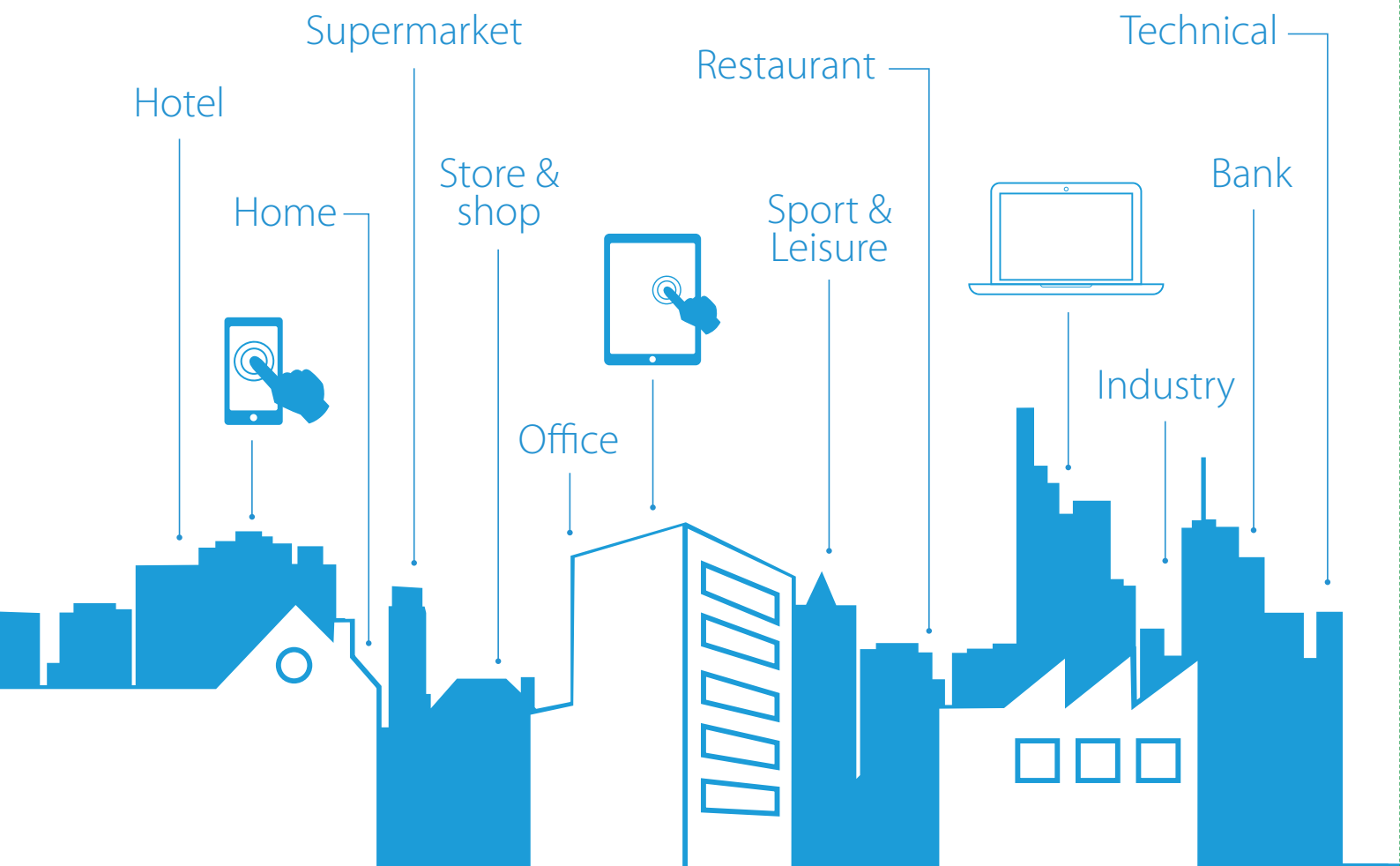
We will continue our global leadership in HVACR solutions as our specialist expertise in all market sectors combined with over 90 years' experience enable us to deliver added value in long-lasting relationships based on trust, respect and credibility.

We promise to continue our forward-thinking ethos, treating challenges as opportunities to produce ever-better solutions. We will drive innovation and go the extra distance for our customers and our company. We will be smart and ready to do things differently.

We will deliver on these core values of our brand and enjoy sustainable success with continued growth.



# Daikin world



Daikin is a leading manufacturer and supplier of heating, ventilation, air conditioning and refrigeration for the residential, commercial and industrial markets.

With more than 95 years of experience in air conditioning and climate control solutions, we know what it takes to create the perfect climate.

Our high-quality products are built to deliver maximum comfort, energy efficiency and reliability. Each unit also includes smart control, which means you have access to control your unit at any time, from anywhere.

We also offer a reliable network of technical and on-site support services through our online portal. Through web applications and tools, we help you monitor and manage your system to keep it running seamlessly.

As an innovation leader, we guarantee our products and services can help you achieve your perfect climate.

For more information, visit [daikinmea.com](https://daikinmea.com)



# VRV IV sets the standard ... again



## 9 reasons why VRV is unique in the market



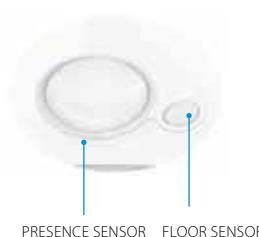
**BREEAM®**

### 1 Efficiency

- › Variable Refrigerant Temperature for high seasonal efficiency
- › Round flow cassette and concealed ceiling units with auto cleaning filter
- › The best partner for your "green" project
  - A team of AP's across Europe who are there to help you
  - Daikin is the 1st HVAC-R manufacturer to achieve BES6001 certificates gaining additional BREEAM credits

### 2 Comfort

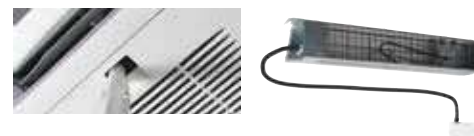
- › Variable Refrigerant Temperature preventing cold draughts in cooling thanks to high outblow temperatures
- › True continuous heating during defrost
- › Low sound indoor and outdoor units
- › Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
- › Round flow cassette and concealed ceiling units with auto cleaning filter ensure optimum air quality



PRESENCE SENSOR FLOOR SENSOR

### 3 Reliability

- › True technical cooling
- › Refrigerant cooled PCB
- › Most extensive testing before new units leave the factory
- › Widest sales support network and after sales service
- › All spare parts available in Europe
- › Preventive maintenance via i-Net
- › Round flow cassette and concealed ceiling units with auto cleaning filter further enhance reliability by extending smooth and trouble free operation due to clean air-filters



### 4 Design

**NEW**

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



FULLY FLAT CASSETTE



DAIKIN EMURA

## 5 Controls

### A new, sleek wired controller designed to enhance the user experience

- › Intuitive touch button control
- › 3 color versions (White, Silver, Black)
- › Advanced settings and commissioning via smartphone or tablet



BRC1H519W(7)



reddot award 2018  
winner



DESIGN  
AWARD  
2018

NEW

- › Intelligent Touch manager: A cost-effective mini BMS integrating all Daikin products
- › Easy integration in third party BMS via BACnet, LonWorks, Modbus, KNX
- › Dedicated control solutions for applications such as technical cooling, shops, hotels, ...
- › Daikin Cloud Service offers services such as online control, energy monitoring, comparison of multiple sites and predictive maintenance for a long and trouble free operation



## 6 Installation

- › Automatic refrigerant charge and refrigerant containment check
- › 4-way blow ceiling suspended cassette (FXUQ)
- › Plug & play Daikin Air Handling Unit
- › Total solution including low and high temperature hydro box, Biddle air curtains
- › VRV configurator software for the fastest commissioning, configuration and customisation
- › Outdoor unit display for quick on-site settings and detailed error readouts for improved customer support



FXUQ



7-segment display

## 7 Inventor

- › Market leader of VRV systems since 1982
- › Over 90 years of expertise in heat pump technology
- › Designed for and produced in Europe



## 8 Range

- › Unique outdoor unit range, with dedicated series for different applications and climate conditions

## 9 Technology

### Variable refrigerant temperature

- › 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)



### Continuous 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, enabling heat pumps to be used as monovalent heating source 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



Heat pump  
Heat recovery  
Replacement  
Water cooled



The VRV air conditioning system is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982. VRV is the trademark of Daikin Industries Ltd, which is derived from the technology we call "variable refrigerant volume". BREEAM is a registered trademark of BRE (the Building Research Establishment Ltd. Community Trade Mark ES778551). The BREEAM marks, logos and symbols are the Copyright of BRE and are reproduced by permission

# What's new?

## VRV IV<sup>+</sup>

### Your known VRV IV with increased seasonal efficiency according to LOT21



VRV IV+ series are available in heat recovery, heat pump, replacement and high ambient versions



Already fully compliant to LOT 21 - Tier 2

Increase of seasonal efficiency up to 23%!

- ✓ Measured with indoor units for real applications!
- ✓ ALL information for indoor units used available on our eco-design website: [https://energylabel.daikin.eu/eu/en\\_US/lot21.html](https://energylabel.daikin.eu/eu/en_US/lot21.html)



New scroll compressor with increased efficiencies at partial loads



Total solution

- ✓ Connects to ventilaton, hot water and Biddle air curtains
- ✓ Combines stylish with standard VRV indoor units



The known VRV IV standards

- ✓ Variable Refrigerant Temperature
- ✓ Continuous heating during defrost
- ✓ VRV configurator
- ✓ 4-side heat exchanger





# Which applications?

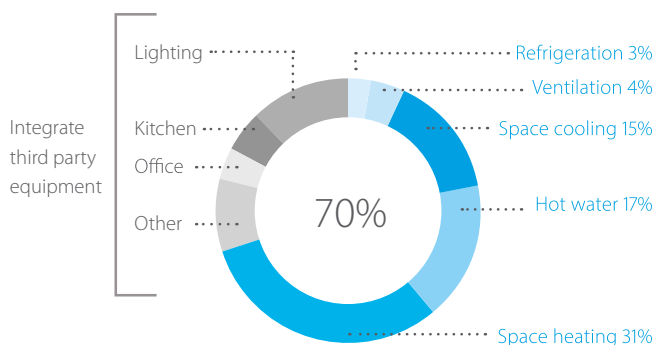


Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into a total solution managing up to 70% of a buildings energy consumption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

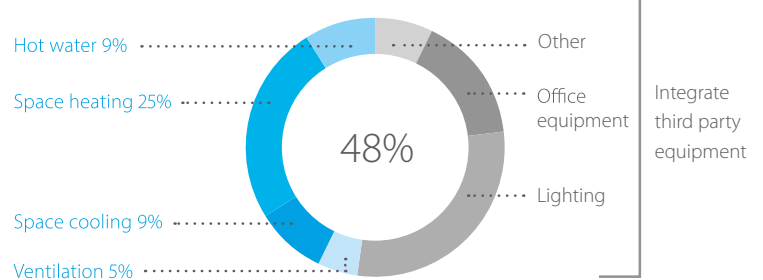
- › **Heating and cooling** for year round comfort
- › **Hot water** for efficient production of hot water
- › **Underfloor heating /cooling** for efficient space heating/cooling
- › **Ventilation** for high quality environments
- › **Air curtains** for optimum air separation
- › **Controls** for maximum 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



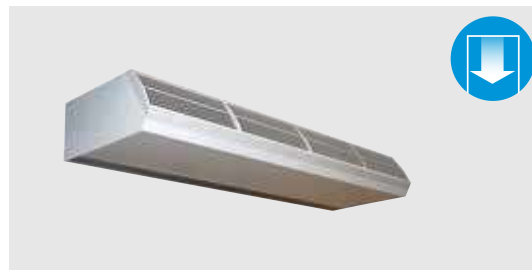
- › Mini BMS which connects Daikin and third-party equipment
- › Integrate intelligent control solutions with energy management tools to reduce running costs

## Low-temperature hot water



- › 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 hot water



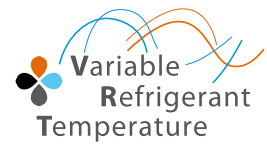
- › Efficient hot water production for:
  - Showers
  - Sinks
  - Tapwater for cleaning
- › Hot water from 25°C to 80°C
- › Connectable to VRV heat recovery and Water - cooled VRV

## Fresh air



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

# Unique variable refrigerant temperature



## The biggest leap since the inverter compressor

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

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

## How does it work?

### VRF standard

Capacity is controlled only with the variation of the inverter compressor

### Daikin VRV IV+

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

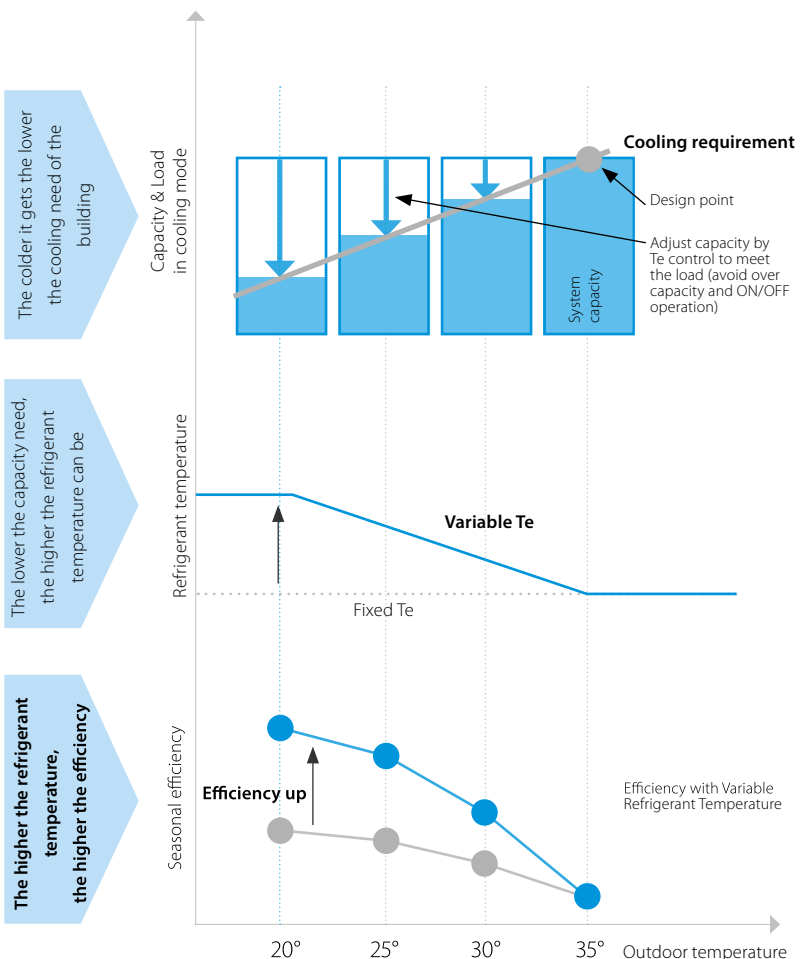
The capacity is controlled by the inverter compressor and variation of the evaporating ( $T_e$ ) and condensing ( $T_c$ ) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

**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. **Contact Daikin for more information about monitoring services.**

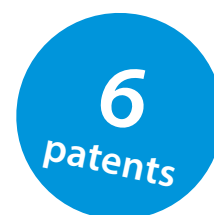
## 8 Different modes to maximise efficiency and comfort



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



Check on  
**YouTube**  
<https://www.youtube.com/DaikinEurope>

## How to set the different modes?



Set up the main operation mode of the system	Define how the system reacts to changing loads	
<b>Step 1</b>  <b>Automatic*</b> 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	<b>Step 2</b>  <b>Powerful</b>  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.	
	<b>Quick</b>  Same as above but slower response than the powerful mode.	
	<b>Mild *</b>  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	
<b>High sensible</b> Target Te can be selected between 7°C to 11°C  Quick reaction speed      Top efficiency  Year round top efficiency	<b>Powerful</b>  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.	
	<b>Quick</b>  Same as above but slower response.	
	<b>Mild</b>  The air off temperature remains fairly constant. Suitable for low ceiling rooms.	
	<b>Eco</b>  Coil temperature would not change due to fluctuating load. Suitable for computer or low ceiling rooms.	
<b>Basic</b> Current VRF standard	<b>No submodes</b>  This is how most other VRF systems work and can be used for all general type of applications.	

\* Factory setting

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

## Measured data

### Fashion store Unterhaching (Germany)

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



# 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-U	RYYQ-U	RXYQQ-U
	RXYQ-U	
	RXYSCQ-TV1 (only configurator, no 7 segment display)	
	RXYSQ-T8V/T8Y/TY1 (only configurator, no 7 segment display)	
	SB.RKXYQ-T(8) (only configurator, no 7 segment display)	

# Unique VRV IV core technologies

37  
patents



## NEW Scroll compressor

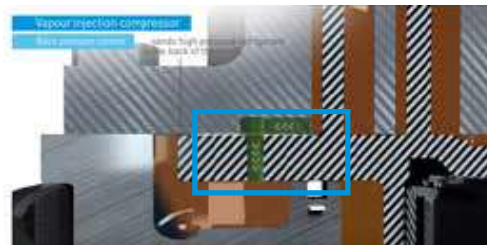
### Back pressure control **UNIQUE**

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



Check on  
**You Tube**

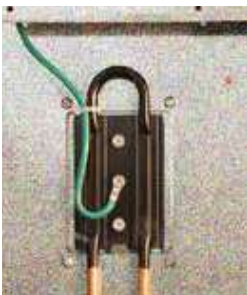
<https://www.youtube.com/DaikinEurope>



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



Refrigerant leak at low load with conventional compressor

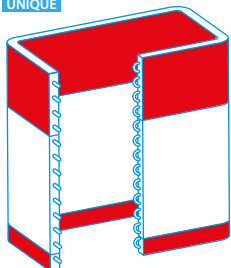


## Refrigerant-cooled PCB

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

6  
patents

**UNIQUE**



## 4-sided, 3-row heat exchanger

- › Heat exchange surface up to 50% larger
- › (up to 235m<sup>2</sup>), leading to 30% more efficiency

10  
patents

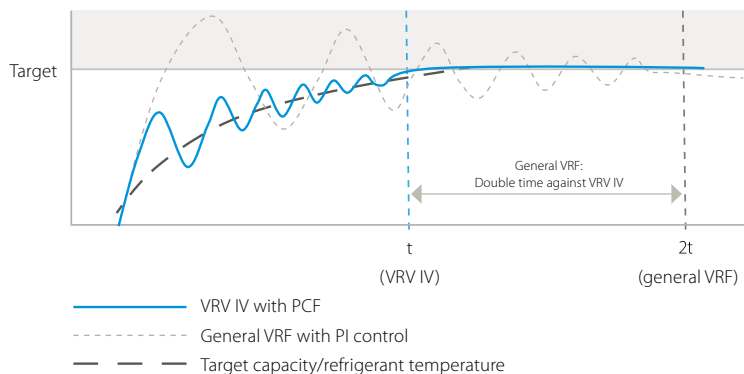


## UNIQUE

### Predictive Control Function (PCF)

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

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



#### VRV IV: PCF

Compressor works with predictive data for the control

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

#### General VRF: Pi control

Compressor works with feedback only for the control

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

Half time against general VRF

## 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

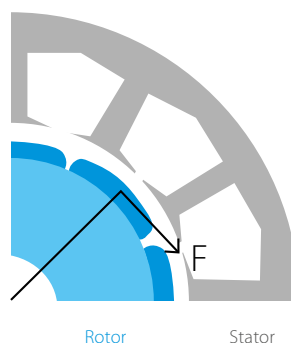
### Sine wave DC inverter

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

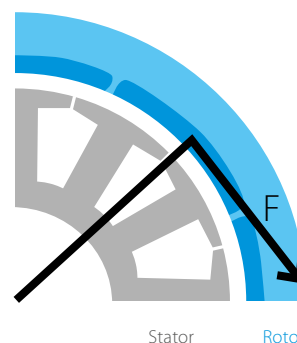
### DC fan motor

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

Conventional motor with inner rotor



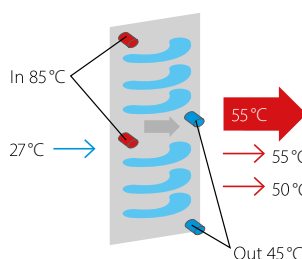
Daikin outer rotor



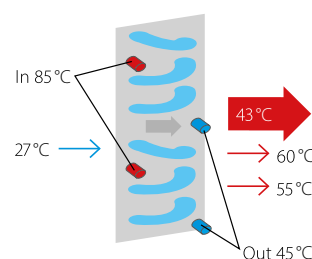
## E-Pass heat exchanger

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

Standard heat exchanger



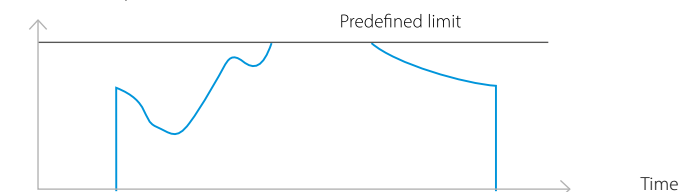
e-Pass heat exchanger













## I-demand function

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

Power consumption



# Products overview *VRV*

Model		Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30
Air cooled - heat recovery	<b>NEW</b> VRV IV heat recovery	<b>Best efficiency &amp; comfort solution</b> ➢ Fully integrated solution with heat recovery for maximum efficiency ➢ Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains ➢ "Free" heating and hot water through heat recovery ➢ The perfect personal comfort for guests/tenants via simultaneous cooling and heating ➢ Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating ➢ Allows technical cooling ➢ Widest range of BS boxes on the market	REYQ-U <b>VRV IV<sup>+</sup></b>															
	<b>NEW</b> VRV IV heat pump with continuous heating	<b>Daikin's optimum solution with top comfort</b> ➢ 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-U <b>VRV IV<sup>+</sup></b>															
	<b>NEW</b> VRV IV heat pump without continuous heating	<b>Daikin's solution for comfort &amp; low energy consumption</b> ➢ 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-U <b>VRV IV<sup>+</sup></b>															
	Air cooled - heat pump	VRV IV-S series Compact	<b>The most compact VRV</b> ➢ Compact and lightweight single fan design saves space and is easy to install ➢ Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains ➢ Either connect VRV of stylish indoor units (Daikin Emura, Nexura) ➢ Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV1 <b>VRV IV S-series Compact</b>														
VRV IV-S series		<b>Space saving solution without compromising on efficiency</b> ➢ Space saving trunk design for flexible installation ➢ Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains ➢ Either connect VRV of stylish indoor units (Daikin Emura, Nexura) ➢ Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQT8V/ T8Y/TY1 <b>VRV IV S-series</b>				T8V											
							T8Y/TY1											
	<b>UNIQUE</b> VRV IV heat pump for indoor installation	<b>The invisible VRV</b> ➢ Unique VRV heat pump for indoor installation ➢ Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts ➢ Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature ➢ Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains	SB.RKXYQ-T(8) <b>VRV IV i-series</b>															
	<b>NEW</b> VRV IV heat pump, optimised for cold climates	<b>Where heating is priority without compromising on efficiency</b> ➢ Suitable for single source heating ➢ Extended operation range down to -25°C in heating ➢ Stable heating capacity without any capacity loss down to -15°C	RXYLQ-T <b>VRV IV C<sup>+</sup> series</b>															
Replacement	heat recovery	<b>Quick &amp; quality replacement for R-22 and R-407C systems</b> ➢ Cost-effective and fast replacement through re-use of existing piping ➢ Drastically improve your comfort, efficiency and reliability ➢ No interruption of daily business while replacing your system ➢ Replace Daikin and other manufacturers systems safely	ROCEQ-P3 <b>VRV III-Q</b>															
	<b>NEW</b> heat pump	<b>Quick &amp; quality replacement for R-22 and R-407C systems</b> ➢ Cost-effective and fast replacement through re-use of existing piping ➢ Drastically improve your comfort, efficiency and reliability ➢ No interruption of daily business while replacing your system ➢ Replace Daikin and other manufacturers systems safely ➢ Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQQ-U <b>VRV IV Q<sup>+</sup> serie</b>															
Water cooled	Water cooled VRV IV	<b>Ideal for high rise buildings, using water as heat source</b> ➢ Reduced CO2 emissions thanks to the use of geothermal energy as a renewable energy source ➢ No need for an external heating or cooling source when used in geothermal mode ➢ Compact & lightweight design can be stacked for maximum space saving ➢ Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature ➢ Variable Water Flow control option increases flexibility and control ➢ Mixed connection of HT hydroboxes and VRV indoor units ➢ Either connect VRV of stylish indoor units (Daikin Emura, Nexura) ➢ 2 analogue input signals allowing external control	RWEYQ-T9* <b>VRV IV W<sup>+</sup> series</b>															

Ranges marked with "\*" are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme  
 Ranges marked with "\*" are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme

● Single unit  
 ● Multi combination


















Capacity (HP)

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

○ ... connection of indoor unit possible, but not necessarily simultaneously with other allowed indoor units  
 ✓ ... connection of indoor unit possible even simultaneously with other checked units in the same row  
 × ... connection of indoor not possible on this outdoor unit system

# Products overview **VRV**

Capacity class (kW)












Type	Model		Product name		15	20	25	32	40	50	63	71	80	100	125	140	200	250	
Ceiling mounted cassette	<b>UNIQUE</b> Round flow cassette	<b>360° air discharge for optimum efficiency and comfort</b> › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximize comfort › Flexibility to suit every room layout › Lowest installation height in the market! › Widest choice ever in decoration panel designs and colors		FXFQ-B 		•	•	•	•	•	•		•	•	•				<b>NEW</b> Black and designer panels
	<b>UNIQUE</b> Fully flat cassette	<b>Unique design that integrates fully flat into the ceiling</b> › Perfect integration in standard architectural ceiling tiles › Blend of iconic design and engineering excellence › Intelligent sensors save energy and maximize comfort › Small capacity unit developed for small or well-insulated rooms › Flexibility to suit every room layout		FXZQ-A 	•	•	•	•	•	•									
	2-way blow ceiling mounted cassette	<b>Thin, lightweight design installs easily in narrow ceiling spaces</b> › Depth of all units is 620mm, ideal for narrow ceiling spaces › Flexibility to suit every room layout › Reduced energy consumption thanks to DC fan motor › The flaps close entirely when the unit is not operating › Optimum comfort with automatic air flow adjustment to the required load		FXCQ-A 		•	•	•	•	•	•		•		•				
	Ceiling mounted corner cassette	<b>1-way blow unit for corner installation</b> › Compact dimensions enable installation in narrow ceiling voids › Flexible installation thanks to different air discharge options		FXKQ-MA 				•	•	•	•								
Concealed ceiling	Slim concealed ceiling unit	<b>Slim design for flexible installation</b> › Compact dimensions enable installation in narrow ceiling voids › Medium external static pressure up to 44Pa › Only grilles are visible › Small capacity unit developed for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor		FXDQ-A3 	•	•	•	•	•	•	•								<b>Auto cleaning filter option</b> <b>Multi zoning option</b>
	Concealed ceiling unit with medium ESP	<b>Slimmest yet most powerful medium static pressure unit on the market!</b> › 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 	•	•	•	•	•	•	•		•	•	•	•			<b>Multi zoning option</b>
	Concealed ceiling unit with high ESP	<b>ESP up to 200, ideal for large sized spaces</b> › Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment › Reduced energy consumption thanks to DC fan motor › Flexible installation as the air suction direction can be altered from rear to bottom suction		FXMQ-P7 							•	•	•	•	•				
	Concealed ceiling unit with high ESP	<b>ESP up to 270, ideal for extra large sized spaces</b> › Only grilles are visible › Large capacity unit: up to 31.5 kW heating capacity		FXMQ-MB 														•	•
<b>NEW</b> Wall mounted	Wall mounted unit	<b>For rooms with no false ceilings nor free floor space</b> › Flat, stylish front panel is more easy to clean › Small capacity unit developed for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor › The air is comfortably spread up- and downwards thanks to 5 different discharge angles		FXAQ-A 	•	•	•	•	•	•	•								
Ceiling suspended	Ceiling suspended unit	<b>For wide rooms with no false ceilings nor free floor space</b> › 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 					•		•			•					
	<b>UNIQUE</b> 4-way blow ceiling suspended unit	<b>Unique Daikin unit for high rooms with no false ceilings nor free floor space</b> › Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! › Can easily be installed in both new and refurbishment projects › Flexibility to suit every room layout › Reduced energy consumption thanks to DC fan motor		FXUQ-A 								•		•					
Floor standing	Floor standing unit	<b>For perimeter zone air conditioning</b> › Can be installed in front of glass walls or free standing as both the front and the back are finished › Ideal for installation beneath a window › Requires very little installation space › Wall mounted installation facilitates cleaning beneath the unit		FXLQ-P 		•	•	•	•	•	•								
	Concealed floor standing unit	<b>Ideal for installation in offices, hotels and residential applications</b> › Discreetly concealed in the wall, leaving only the suction and discharge grilles visible › Can even be installed underneath a window › Requires very little installation space as the depth is only 200mm › High ESP allows flexible installation		FXNQ-A 		•	•	•	•	•	•								
Cooling capacity (kW) <sup>1</sup>						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) <sup>2</sup>						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.

Type	Model	Product name	Capacity class (kW)								Connectable outdoor unit					
			15	20	25	35	42	50	60	71	RYYQ-T	RXYQ-T(9)	RXYSQ-TV1 <sup>3</sup>	RXYSQ-TV1 <sup>3</sup>	RWEYQ-T9 <sup>4</sup>	RXYLQ-T
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function <sup>1</sup> )	FCAG-B 				•		•	•				✓			
	Fully flat cassette	FFA-A9 			•	•		•	•				✓			
Concealed ceiling	Slim concealed ceiling unit	FDXM-F9 			•	•		•	•				✓			
	Concealed ceiling unit with inverter-driven fan	FBA-A9 				•		•	•		Auto cleaning filter option		✓			
Wall mounted	Daikin Emura Wall mounted unit	FTXJ-MW/MS 		•	•	•		•					✓	✓	✓	✓
	Wall mounted unit	CTXM-M FTXM-N 	•	•	•	•	•	•	•	•	✓	✓	✓	✓	✓	✓
Ceiling suspended	Ceiling suspended unit	FHA-A9 				•		•	•	•			✓			
Floor standing	Nexura floor standing unit	FVXG-K 			•	•		•			✓	✓	✓	✓	✓	✓
	Floor standing unit	FVXM-F 			•	•		•			✓	✓	✓	✓	✓	✓
	Flexi type unit	FLXS-B(9) 			•	•		•	•		✓	✓	✓	✓	✓	✓
	Concealed floor standing unit	FNA-A9 			•	•		•	•				✓			

<sup>1</sup> Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E53A/B/C needed

<sup>2</sup> To connect stylish indoor units a BPMKS unit is needed

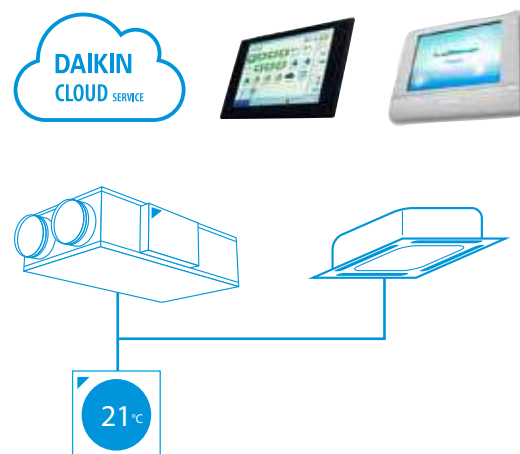
<sup>3</sup> A mix of RA indoor units and VRV indoor units is not allowed.

<sup>4</sup> Only in heat pump operation

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

### 1 Market leading controls & connectivity

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



Madoka



red dot award 2018  
winner

### 2 Unique installation benefits

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

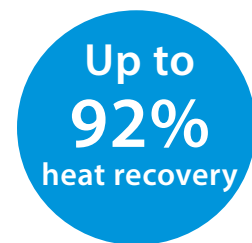






### 3 High energy efficiency

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



### 4 Best comfort

- › Wide range of units to control fresh air and humidity
- › Wide range of optional filters to suit the application available up to ePM<sub>1</sub> 80% (F9)
- › Special paper heat exchanger recovers heat and moisture from outgoing air to warm up and humidify incoming air to comfortable levels (VAM, VKM)



### 5 Top reliability

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



## Did you know?

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

#### COGNITIVE FUNCTION SCORES ...



**+ 61%**  
IN GREEN BUILDING  
CONDITIONS



**+ 101%**  
IN ENHANCED  
GREEN BUILDING CONDITIONS

# Widest range of DX integrated ventilation on the market

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

## Ventilation solutions

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

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

## Heat Reclaim Ventilation - Ventilation with heat recovery as standard

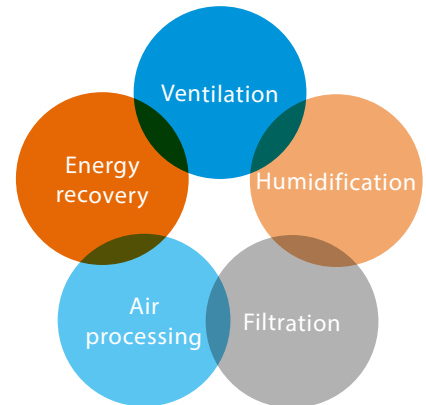
Our heat recovery units **recover sensible heat** (Modular L / Modular L Smart) and **latent heat** (VAM/VKM), substantially reducing the load on the air conditioning system up to 40%.

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

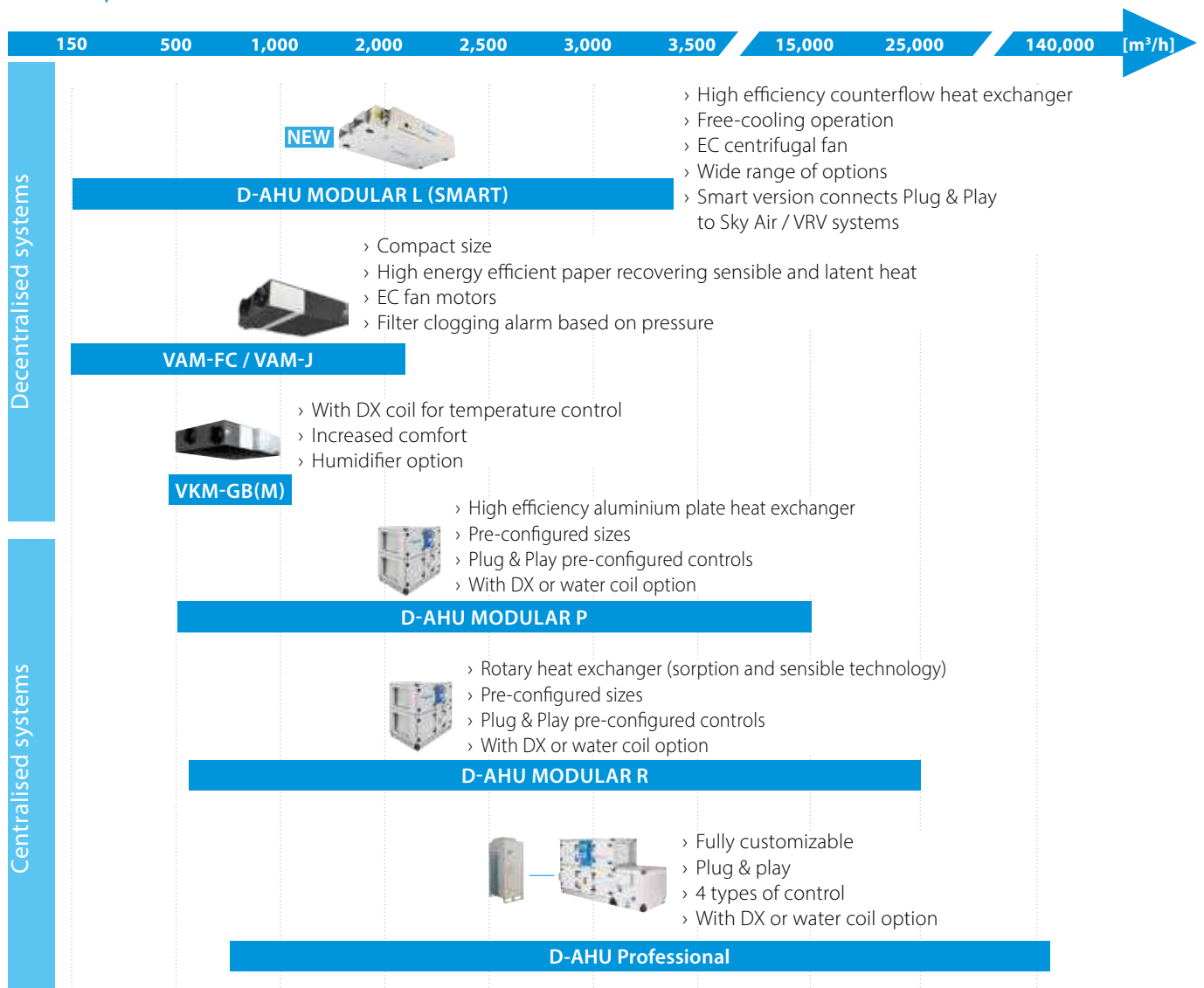
Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be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

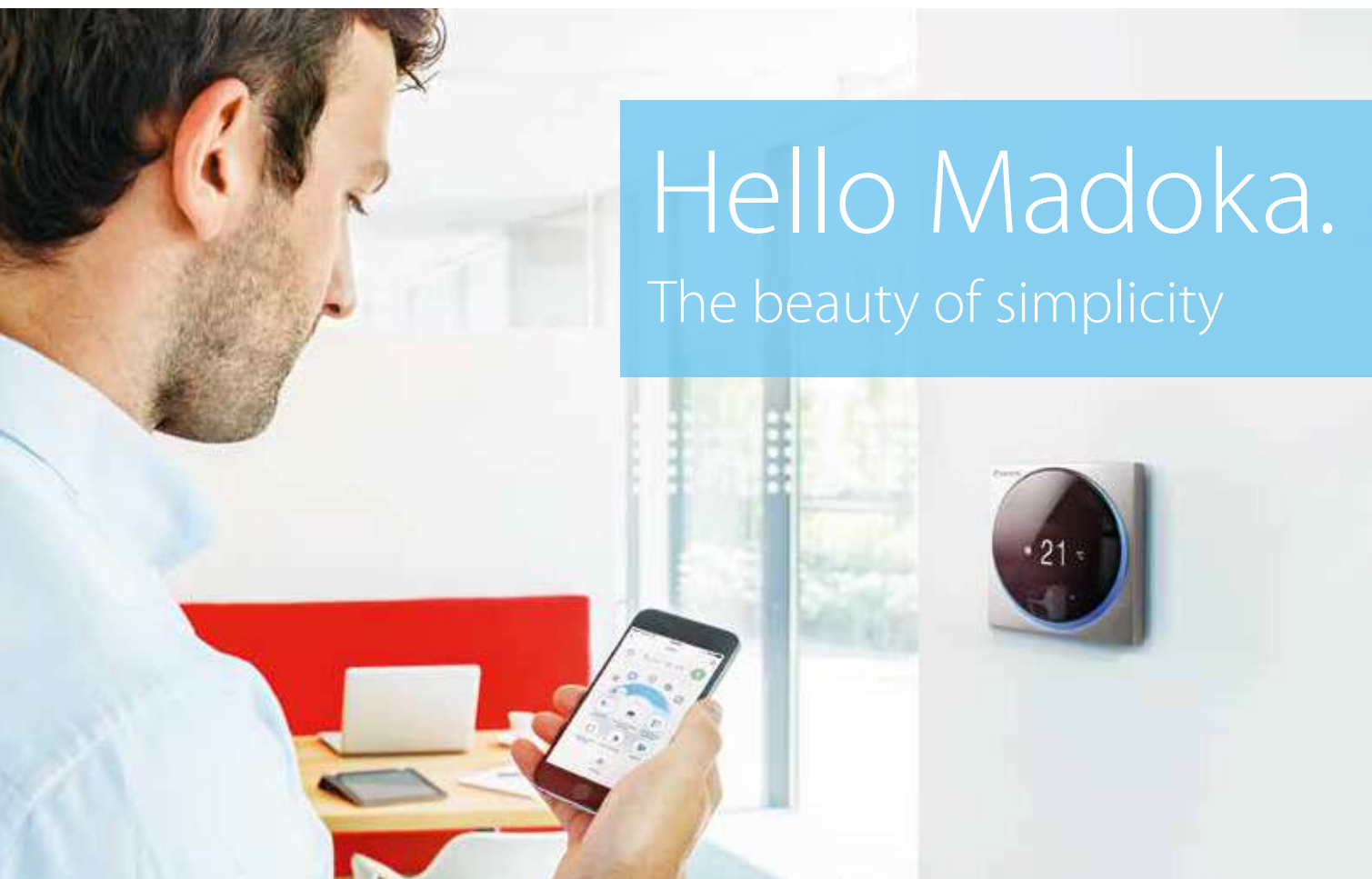
### Five components of indoor air quality

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



### Fresh air portfolio





# Hello Madoka.

The beauty of simplicity

## Madoka guarantees comfort in the most intuitive way imaginable

Available in three attractive colours, Madoka adds style and class to any interior space.

Measuring just 85 x 85 mm, Madoka is extremely compact and will become a fluid part of any background.

Madoka combines refinement and simplicity.

The intuitive touch button control enlarges the display and makes Madoka both easy and enjoyable to use.

The Madoka Assistant app simplifies the advanced settings such as schedule or set point limitation. Your smartphone connects easily with Madoka via Bluetooth®

White  
RAL 9003 (glossy)



Silver  
RAL 9006 (metallic)



Black  
RAL 9005 (matt)



reddot award 2018  
winner







# Madoka Assistant



Simplifies the advanced settings such as schedule or set point limitation

- ✓ Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.
- ✓ Easy and quick commissioning, saves time and cost for installers
- ✓ Featuring Bluetooth® low energy technology

Easy setting of schedules



Advanced user settings



Installer settings



Field settings

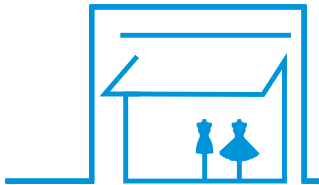


# Control solutions summary

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

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

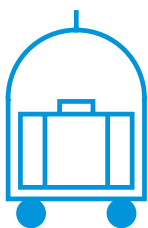
## Shop



	Unit control			Integrating control			Advanced control	
	BRP069* Online controller	BRC519W/ S/K(7)	RTD-20	RTD-Net	KLIC-DI	EKMBOXA	DCC601A51	DCM601A51
	Smart phone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●	●	●
Limit control possibilities for shop staff		●	●	●	●	●	●	●
Create zones within the shop			●				●	●
Interlock with eg. Alarm, PIR sensor			●				● (limited)	●
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)	● (3)
Manage multiple sites							● (2)	● (3)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via Daikin cloud service (3) Through own IT set-up (not Daikin cloud server) (4) Not available on all indoors (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service

## Hotel









	Unit control	Integrating control		Advanced control	
	BRC519W/S/K(7)	RTD-HO	KLIC-DI	DCM010A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 interface for up to 2,500 indoor units	1 iTM for 64 indoor unit(s) (groups) (1)
Hotel guest can control & monitor basic functionalities from his room	●	●	● (3)		●
Limit control possibilities for hotel guests	●	●	●	●	●
Interlock with window contact	● (2)	●			●
Interlock with key-card	● (2)	●			●
Integrate Daikin units into existing BMS via Modbus		●			
Integrate Daikin units into existing BMS via KNX			●		
Integrate Daikin units into existing BMS via HTTP					●
Integrate Daikin unit control in hotel booking software				● Oracle Opera PMS	
Monitor energy consumption					●
Advanced energy management					●
Integrate Daikin products cross pillars into Daikin BMS					●
Integrate third party products into Daikin BMS					●
Online control					●

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

## Office



Unit control	Integrating control			Advanced control	
		 LonWorks Interface	 BACnet Interface	 Intelligent Controller	 iThing Manager
BRC519W/S/K(7)	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) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
●	●	●	●	●	●
	●	●	●	●	●
●	●	●	●	●	●
●				●	●
s	●				
				●	●
		●			
			●		
●					
				● (4)	●
				● (4)	●
					●
				●	●
				● (4)	●
				● (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)

(5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service

## Infrastructure cooling



	Unit	Integrating		Advanced
				 iThing Manager
	BRC519W/S/K(7)	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 up 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

# Mini BMS

with full integration  
across all product pillars

DCM601A51



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



## NEW

Download the WAGO  
selection tool from  
[my.daikin.eu](http://my.daikin.eu)

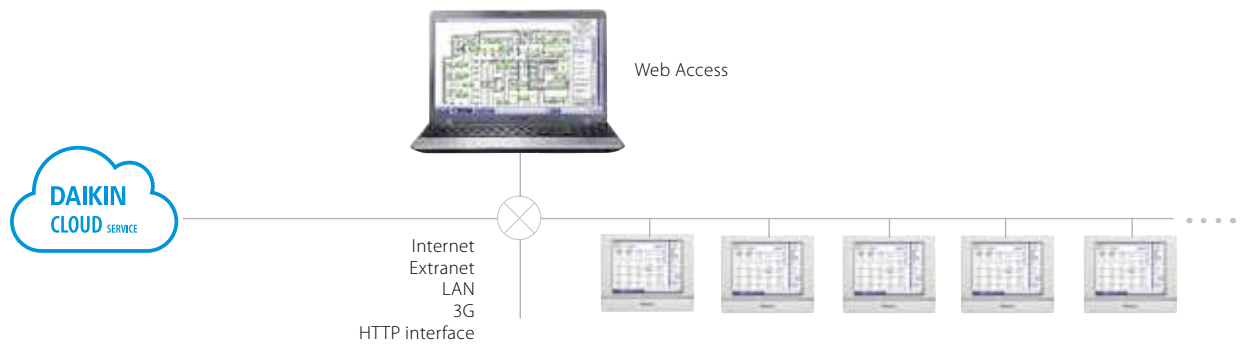
- › Easy selection of WAGO materials
- › Material list creation
- › Time saving
  - Includes wiring schemes
  - Contains commissioning/preset data for iTM



Check on  
**You Tube**

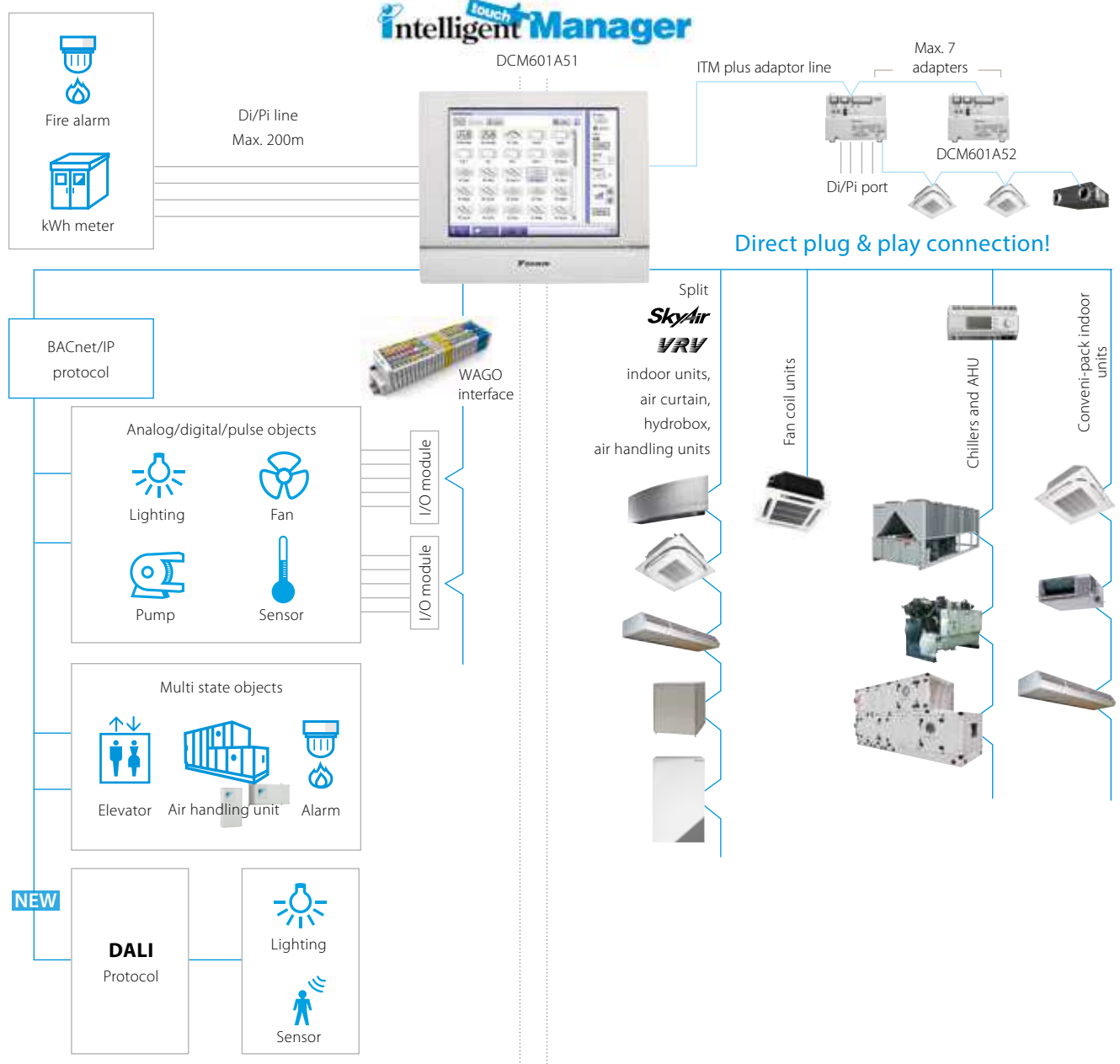
<https://www.youtube.com/DaikinEurope>

## System overview



## Integration of third party equipment

## Full control of Daikin HVAC-R portfolio







### User friendliness

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



### Smart energy management

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

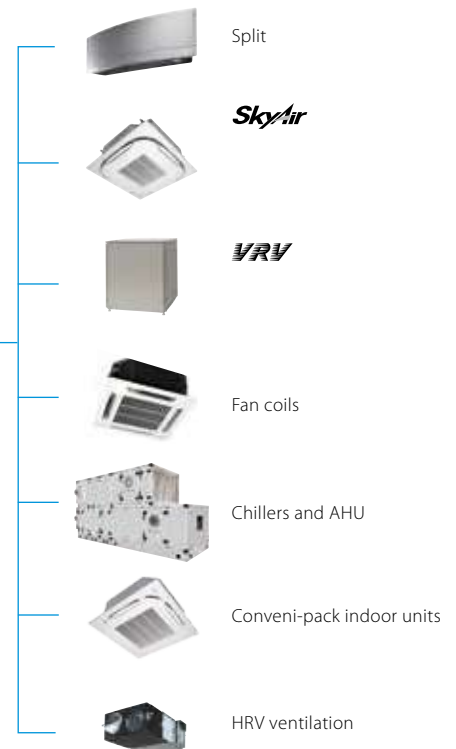
### Flexibility

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

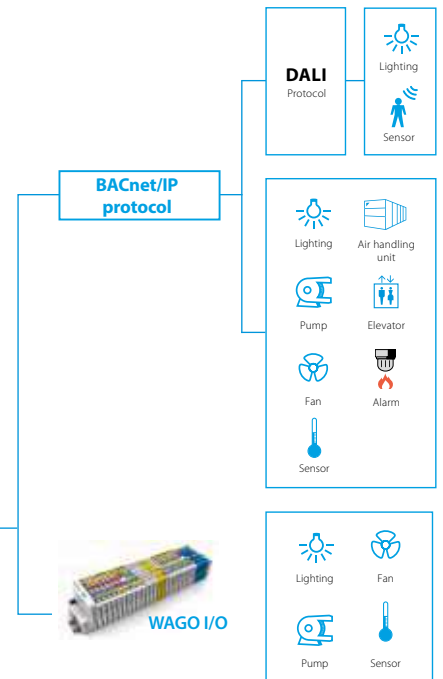
### Easy servicing and commissioning

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

### Plug & play



Flexibility in size  
64 up to 512 groups



# Supporting tools, software and apps

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

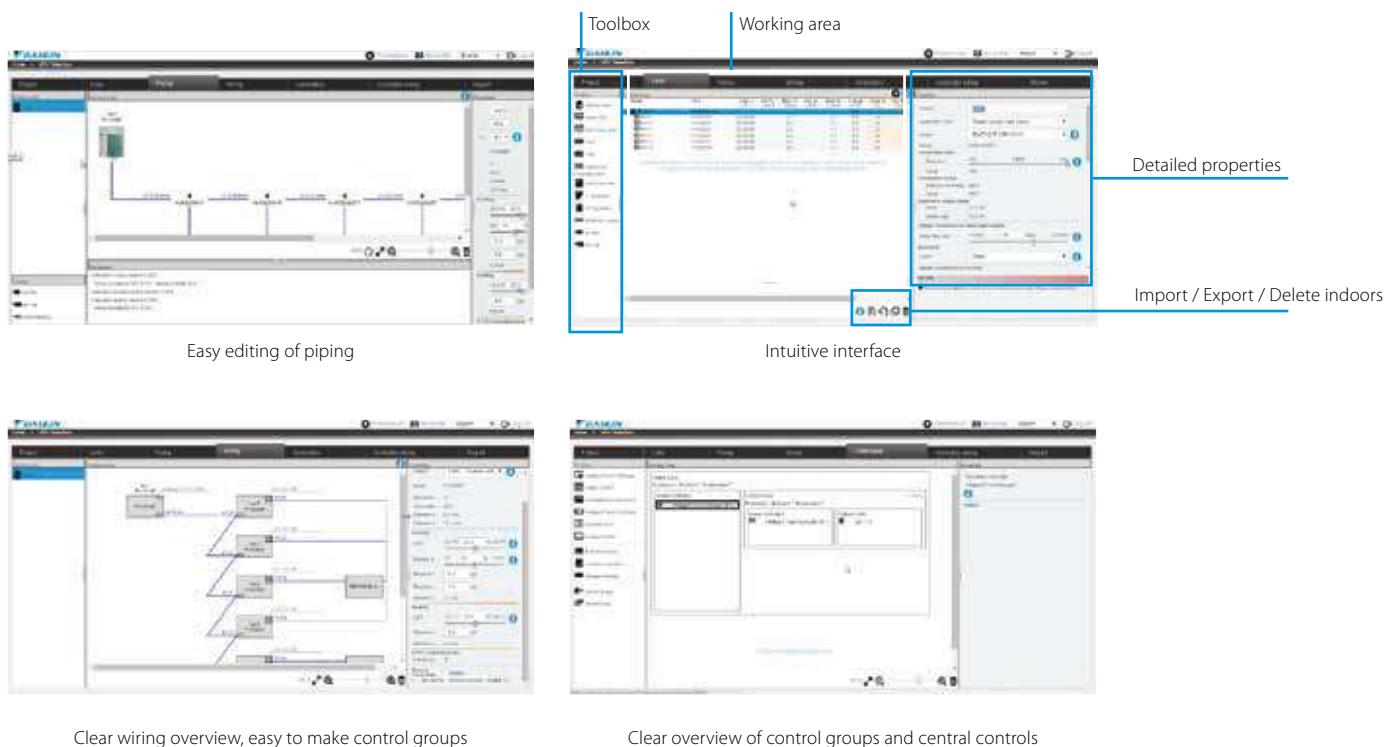
## New web based Xpress selection software

### Making selection easy, anytime, anywhere

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



### Main functions

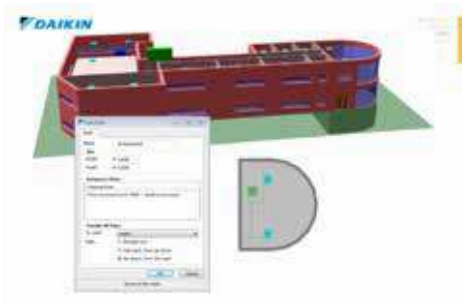


## Other selection software

### VRV Pro

Enables VRV air conditioning systems to be engineered in a precise and economical way, taking into account the complex piping rules. Moreover, it ensures optimum operating cycles and maximum energy efficiency.

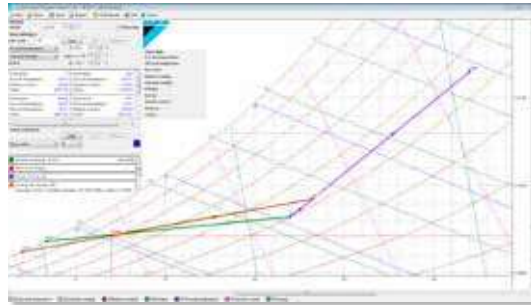
- › Accurate heat load calculation
- › Precise selection based on peak loads
- › Energy consumption indication



### Ventilation Xpress

Selection tool for ventilation devices (VAM, VKM). The selection is based on given supply/extract airflows (including fresh up and given ESP of supply/extract ducting):

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



### Webbased ASTRA selection **NEW** for air handling units

A powerful tool to select the right Air Handling Units for your needs.

- › 3D interface
- › quick selection procedures
- › new print-out possibilities and report shapes



### WAGO selection tool **NEW**

The WAGO Selection Tool is specifically designed to select the optimal WAGO I/O system for your needs.

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



# Plugins and third-party software tools

## Building Information Modelling (BIM) support

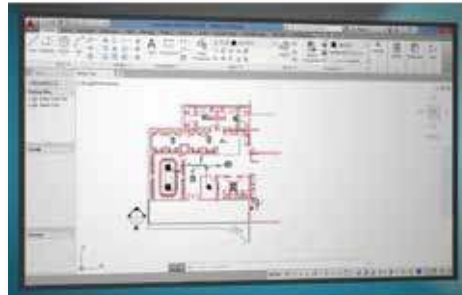
- › BIM improves efficiency of design and build phase
- › Daikin is among the first to supply a full library of BIM objects for its VRV products



[www.daikin.eu/bim](http://www.daikin.eu/bim)

## VRV CAD 2D

- › Displays VRV pipe design on a Autocad 2D floorplan
- › Improves project management
- › Accurately calculates the pipe dimensions and refnets
- › Determines the outdoor unit size
- › Validates VRV pipe rules
- › Accounts for the extra refrigerant charge, including a max room concentration check



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

# Energy simulation and design aid tools

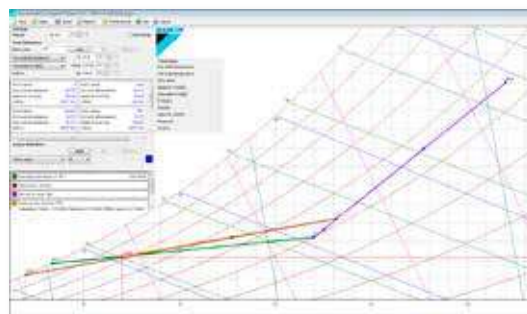
## Seasonal simulator

- › The Seasonal Simulator is an innovative software tool that calculates and compares potential seasonal efficiency ratings.
- › This user-friendly tool compares various Daikin systems, annual power consumption, CO<sub>2</sub> emissions, and much more, to present an accurate ROI calculation in a matter of minutes.



## Psychrometrics diagram **NEW**

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



## Service tools

### Error code app

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

### D-Checker

D-checker is a software application used to record and monitor operation data of Daikin applied, split, Multi-split, Sky-air units, Daikin Altherma LT, ground source heat pump, Hybrid, ZEAS, Conveni-pack & R410A Booster unit

### Bluetooth adaptor **NEW**

Monitoring of Split, Sky Air and VRV data via any bluetooth device

- › No need to access the outdoor unit
  - Connects with D-Checker software (for laptops)
  - Connects with monitoring app (for tablets or smartphones)

### VRV Service-Checker

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



Diagnosis of the Bluetooth system possible:



## Online support

### **NEW** Business portal

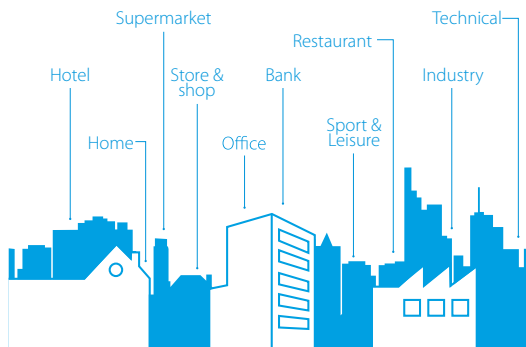
- › Experience our new extranet that thinks with you at [my.daikinmea.com](http://my.daikinmea.com)
- › Find information in seconds via a powerful search
- › Customise the options so you see only info relevant for you
- › Access via mobile device or desktop

[my.daikinmea.com](http://my.daikinmea.com)



## Internet

Find our solution for different applications:



- › Get more commercial details on our flagship products via our dedicated minisites
- › See our references



THE VYRA SUITES  
(Samrya 44)

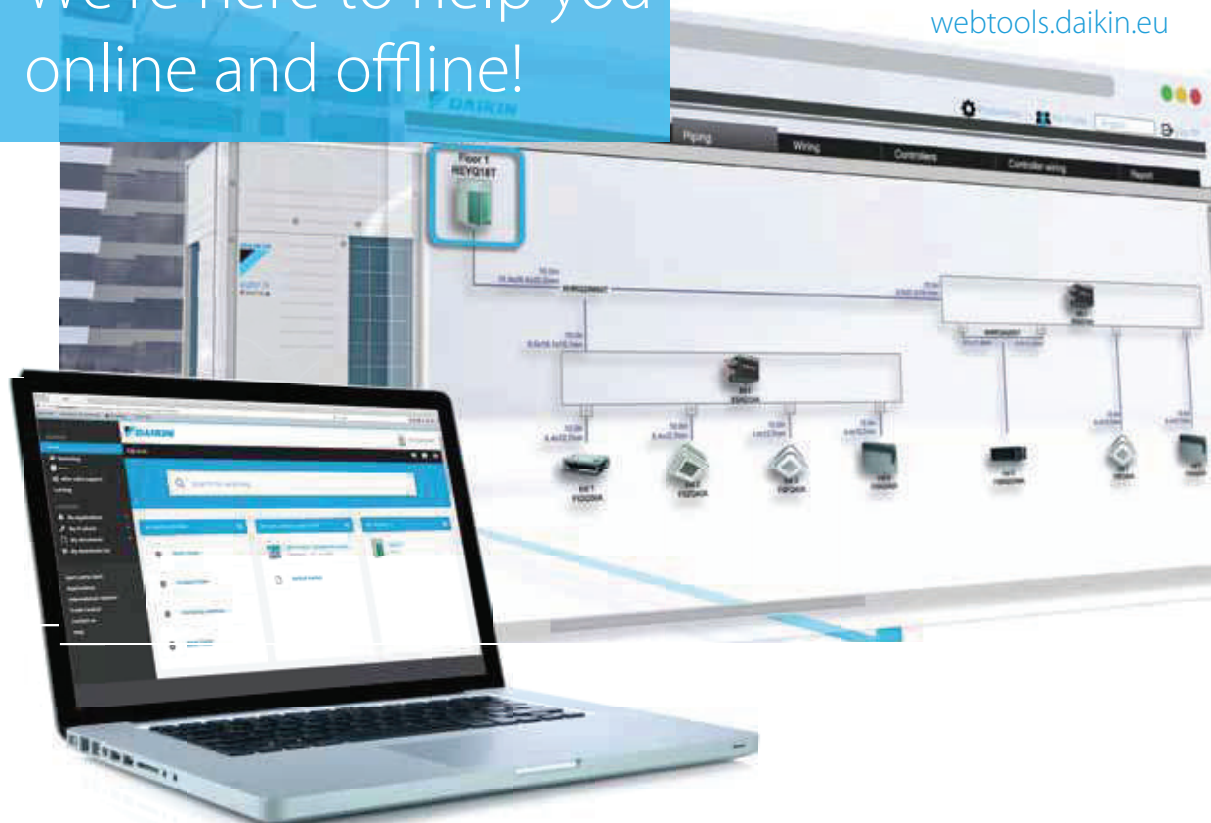
[https://www.daikinmea.com/en\\_US/about/case-studies.html](https://www.daikinmea.com/en_US/about/case-studies.html)





We're here to help you  
online and offline!

Online VRV  
selection software  
[webtools.daikin.eu](http://webtools.daikin.eu)



Full BIM object library available at the  
BIM Application Suite  
<https://bim.daikin.eu>



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