












Product portfolio VRV



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	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																
	VRV IV heat recovery REYQ-T VRV IV 																
Air cooled - heat pump	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																
	VRV IV heat pump with continuous heating RYYQ-T VRV IV 																
	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																
	VRV IV heat pump without continuous heating RXYQ-T(9) VRV IV 																
	VRV III-S RXYSQ-P8V1/P8Y1 VRV III-S 																
	NEW VRV IV-S series Space saving solution without compromising on efficiency › Space saving trunk design for flexible installation › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature																
	NEW VRV IV-S series Compact The most compact VRV › Compact and lightweight single fan design saves space and is easy to install › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature																
Replacement	VRV III heat pump, optimised for heating RTSYQ-PA VRV III-C 																
	Classic VRV configuration › For standard cooling & heating requirements › Connectable to VRV indoor units, controls and ventilation																
	VRV Classic RXYCQ-A VRV Classic 																
Replacement	Quick & quality replacement for R-22 and R-407C systems › Cost-effective and fast replacement through re-use of existing piping › Up to 40% more efficient than R-22 systems › No interruption of daily business while replacing your system › Replace Daikin and other manufacturers systems safely																
	VRV III-Q 																
Replacement	Quick & quality replacement for R-22 and R-407C systems › Cost-effective and fast replacement through re-use of existing piping › Up to 80% more efficient than R-22 systems › 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																
	VRV IV Q-series 																
Water cooled	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 › 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 › 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																
	Water cooled VRV IV RWEYQ-T* VRV IV W-series 																

* Not Eurovent certified

● Single unit


















● Multi combination

Capacity (HP)												Description / Combination	VRV indoor units	Indoor units	LT Hydrobox HXY-A	HT Hydrobox HXHD-A	HRV units VAM-, VKM-	AHU connection EKEXV- + EKEQMCB	AHU connection EKEXV- + EKEQFCB	Air curtains CYV-DK-	Remarks
32	34	36	38	40	42	44	46	48	50	52	54										
												VRV IV Heat Recovery REYQ-T	○	×	○	○	○	○	×	○	† Standard total system connection ratio limit: 50 ~ 130%
												with only VRV indoor units	✓								
												with LT/HT Hydroboxes	✓		✓	✓	✓				† Max 32 indoor units, even on 16HP and larger systems † Total system connection ratio up to 200% possible
												HRV units VAM-, VKM-	✓		✓	✓	✓		✓		
●	●	●	●	●	●	●	●	●	●	●	●	AHU connection EKEXV + EKEQMCB	✓				✓	✓		✓	† Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is always necessary
												Biddle air curtain CYV-DK-	✓				✓	✓		✓	
												VRV IV Heat Pump RYYQ-T / 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
												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 + EKEQMCB	✓				✓	✓		✓	
●	●	●	●	●	●	●	●	●	●	●	●	AHU connection EKEXV + EKEQFCB							✓		
												Biddle air curtain CYV-DK-	✓				✓	✓		✓	
												VRV III-S Mini VRV RXYSQ-P8	○	○	×	×	○	○	×	○	† Standard total system connection ratio limit: 50 ~ 130%
												with VRV indoor units	✓				✓	✓		✓	
												with Split indoor units		✓							
												VRV IV-S Mini VRV	○	○	×	×	○	○	×	○	† Standard total system connection ratio limit: 50 ~ 130%
												with VRV indoor units	✓				✓	✓		✓	
												with Split indoor units		✓							
												VRV IV-S Mini VRV	○	○	×	×	○	○	×	○	† Standard total system connection ratio limit: 50 ~ 130%
												with VRV indoor units	✓				✓	✓		✓	
												with Split indoor units		✓							
												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-T	✓	×	×	×	✓	✓	×	✓	† Standard total system connection ratio limit: 50 ~ 130%

- ... 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
×

Products overview

Capacity class (kW)

Type	Model		Product name		15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximize comfort › Flexibility to suit every room layout › Lowest installation height in the market!		FXFQ-A			●	●	●	●	●		●	●	●			
	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling › Perfect integration in standard architectural ceiling tiles › Blend of iconic design and engineering excellence › Intelligent sensors save energy and maximize comfort › Small capacity unit developed for small or well-insulated rooms › Flexibility to suit every room layout		FXZQ-A		●	●	●	●	●	●							
	2-way blow ceiling mounted cassette	Thin, lightweight design installs easily in narrow ceiling spaces › Depth of all units is 620mm, ideal for narrow ceiling spaces › Flexibility to suit every room layout › Reduced energy consumption thanks to DC fan motor › The flaps close entirely when the unit is not operating › Optimum comfort with automatic air flow adjustment to the required load		FXCQ-A			●	●	●	●	●	●	●		●			
	Ceiling mounted corner cassette	1-way blow unit for corner installation › Compact dimensions enable installation in narrow ceiling voids › Flexible installation thanks to different air discharge options		FXKQ-MA				●	●	●		●						
Concealed ceiling	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			●	●										
	Slim concealed ceiling unit	Slim design for flexible installation › Compact dimensions enable installation in narrow ceiling voids › Medium external static pressure up to 44Pa › Only grilles are visible › Small capacity unit developed for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor		FXDQ-A		●	●	●	●	●	●	●						
	NEW 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		●	●	●	●	●	●	●	●	●	●	●		
	Concealed ceiling unit with high ESP	ESP up to 200, ideal for large sized spaces › Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment › Reduced energy consumption thanks to DC fan motor › Flexible installation as the air suction direction can be altered from rear to bottom suction		FXMQ-P7							●	●	●	●	●			
	Concealed ceiling unit with high ESP	ESP up to 270, ideal for extra large sized spaces › Only grilles are visible › Large capacity unit: up to 31.5 kW heating capacity		FXMQ-MA9													●	●
	Concealed ceiling unit with high efficiency	For the highest energy efficiency › Automatic air flow adjustment function guarantees comfort › Easy installation in narrow ceilings (245mm height) › High external static pressure up to 270Pa facilitates using flexible ducts of varying lengths › Only the suction and discharge grilles are visible		FXTQ-A							●	●	●	●				
	Wall mounted unit	For rooms with no false ceilings nor free floor space › Flat, stylish front panel is more easy to clean › Small capacity unit developed for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor › The air is comfortably spread up- and downwards thanks to 5 different discharge angles		FXAQ-P		●	●	●	●	●	●	●						
Ceiling suspended	Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space › Ideal for comfortable air flow in wide rooms thanks to Coanda effect › Rooms with ceilings up to 3.8m can be heated or cooled very easily! › Can easily be installed in both new and refurbishment projects › Can even be mounted in corners or narrow spaces without any problem › Reduced energy consumption thanks to DC fan motor		FXHQ-A					●		●			●				
	UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space › Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! › Can easily be installed in both new and refurbishment projects › Flexibility to suit every room layout › Reduced energy consumption thanks to DC fan motor		FXUQ-A								●		●				
Floor standing	Floor standing unit	For perimeter zone air conditioning › Can be installed in front of glass walls or free standing as both the front and the back are finished › Ideal for installation beneath a window › Requires very little installation space › Wall mounted installation facilitates cleaning beneath the unit		FXLQ-P			●	●	●	●	●	●						
	NEW Concealed floor standing unit	Ideal for installation in offices, hotels and residential applications › Discretely concealed in the wall, leaving only the suction and discharge grilles visible › Can even be installed underneath a window › Requires very little installation space as the depth is only 200mm › High ESP allows flexible installation		FXNQ-A			●	●	●	●	●	●						
Cooling capacity (kW) ¹					1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
Heating capacity (kW) ²					1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
















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

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



Stylish indoor units overview

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

											Connectable outdoor unit				
											RYVQ-T	RXYQ-T(9)	RXYVQ-P8V1 ³	RXYVQ-P8Y1 ³	
Type	Model	Product name	15	20	25	35	42	50	60	71					
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	FDXS-F(9)				●	●		●	●			✓	✓	
	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-C					●		●	●			✓	✓	
	Nexura floor standing unit	FVXG-K				●	●		●			✓	✓	✓	✓
Floor standing	Floor standing unit	FVXS-F				●	●		●			✓	✓	✓	✓
	Flexi type unit	FLXS-B(9)				●	●		●	●		✓	✓	✓	✓

¹ Decoration panel BYCQ140CG + BRCIE52A/B needed

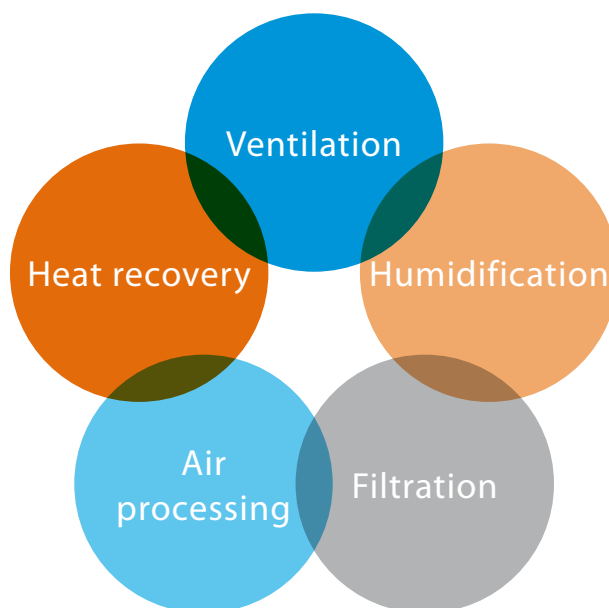
² To connect stylish indoor units a BPMKS unit is needed

³ For RXYSQ units a mix of RA indoor units and VRV indoor units is not allowed.





Ventilation range

Five components of indoor air quality

- › **Ventilation:** ensures the provision of fresh air
- › **Heat 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 minimizing 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



Air flow rate (m³/h)*




Type	Product name	Model	0	200	400	600	800	1,000	2,000	4,000	6,000	8,000	140,000	Components of indoor air quality
Heat reclaim ventilation	VAM-FA/FB	 Ventilation with heat recovery as standard › Energy saving ventilation › Maximise floor space for furniture, decoration and fittings › Free cooling › Reduced energy consumption thanks to DC inverter fan motor › Optional CO ₂ sensor saves energy while improving indoor air quality												› Ventilation › Heat recovery
	VKM-GB	 Pre heating or cooling of fresh air for lower load on the air conditioning system › Energy saving ventilation › Creates a high quality indoor environment › Maximise floor space for furniture, decoration and fittings › Free cooling › Reduced energy consumption thanks to DC inverter fan motor												› Ventilation › Heat recovery › Air processing
	VKM-GBM	 Pre heating, cooling and humidification for optimum comfort › Energy saving ventilation › Creates a high quality indoor environment › Balance your indoor humidity level › Maximise floor space for furniture, decoration and fittings › Free cooling												› Ventilation › Heat recovery › Air processing › Humidification
Air handling units	DX total fresh air package	 Fully customised solution for ventilation and air handling › Inverter technology › Heat pump and heat recovery › Provides virtually free heating › Room temperature via Daikin control › Large range of expansion valve kits											**	› Ventilation › Heat recovery › Air processing › Humidification › Filtration

* Air flow rate is a calculated indication only, based on the following values: heating capacity EKEXV-kit * 200m³/h

** Daikin AHU connected to Daikin chiller solution

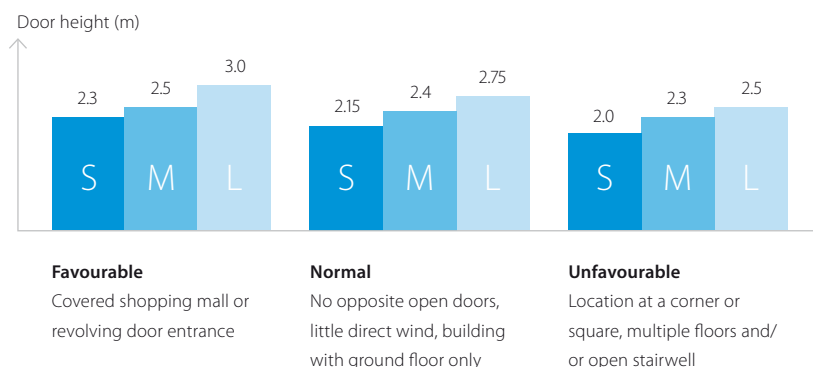
Additional options

Biddle air curtain range

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 leaving only the decoration panel visible
- › Free-hanging model (F): easy wall mounted installation
- › Recessed model (R) : neatly concealed in the ceiling

Air curtain size selector



Hydrobox range

Capacity class (kW)

Type	Product name	Model	80	125	Leaving water temperature range
Low temperature hydrobox	HXY-A	 <p>For high efficiency space heating and cooling</p> <ul style="list-style-type: none"> › 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-A	 <p>For efficient hot water production and space heating</p> <ul style="list-style-type: none"> › Ideal for hot water in bathrooms, sinks and for underfloor heating, radiators, air handling units, ... › Hot water from 25 to 80°C › "Free" heating and hot water through heat recovery › Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler › Possibility to connect thermal solar collectors 		●	25 °C - 80 °C

Network solutions

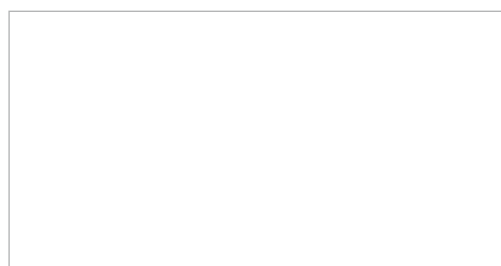
Type		ITC	ITM	DMS-IF	BACNET
Screen	Layout screen		●		
	Touch screen	●	●		
Integration	Mini BMS for heating, air conditioning applied systems and refrigeration units (BACnet and WAGO)		●		
	3rd party equipment integration (BACnet and WAGO)		●		
	Basic control functions: on/off, temp, setting, air flow settings	●	●	●	●
	Refrigerant containment check		●		
	Temperature limitation	●	●		
	Setback		●		
Control	Automatic changeover	●	●		
	Weekly schedule and special day pattern	●	●		
	Timer extension		●		
	Forced off	●	●	●	●
	Basic control functions: ON/OFF status, operation mode, set point temp.	●	●	●	●
Monitoring	Filter status	●	●	●	●
	Malfunction code	●	●	●	●
	History (operation, malfunction...)	●	●		
	Visualisation	●	●		
	PPD	●	●		●
Options	Web access and control	●	Std		
	HTTP option	●			
	Interlock	●	●		
	Pre-cool/heat		●		
Other	Sliding temperature		●		
	Free cooling	●	●		
	ACNSS connection Air Conditioning Network Service System	●	●	●	●
	Maximum indoor unit groups	64	2560	64	4x64

VRV – the solution for the commercial sector

Daikin's VRV technology leads the way in customisation to match individual commercial building requirements in comfort and energy efficiency. Flexible to cover all applications and climate conditions, Daikin has the unique VRV products that make the difference for you and your customers.



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