

# VRV III-S

# VRV III

# VRV-WII



## OUTDOOR UNITS

### Air-Cooled VRV®-Q

RQEQ-P / RQYQ-P

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### Air-Cooled VRV®

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## INDOOR UNITS

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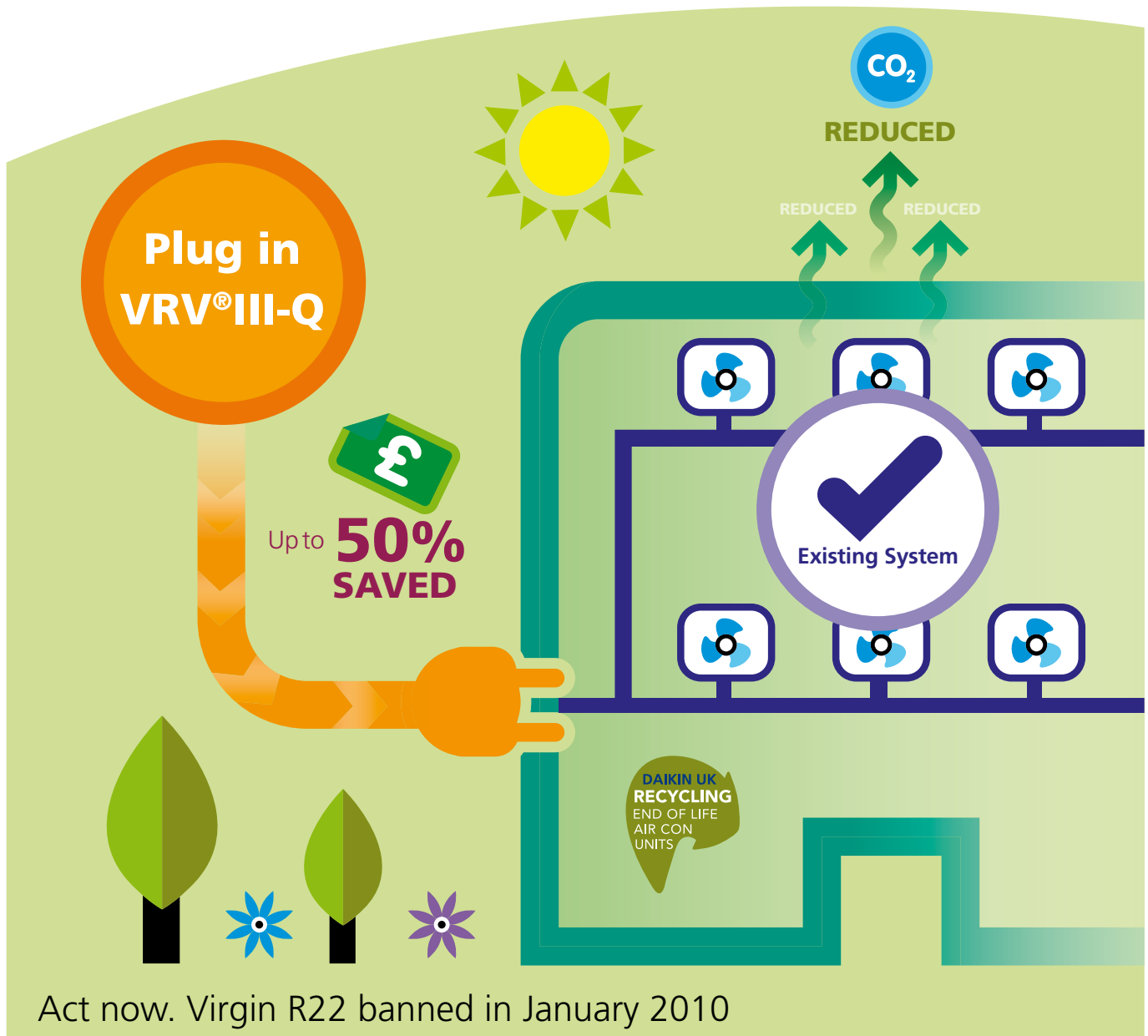
158

## HOT WATER

Hot water module for VRV Heat Recovery

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# The simple switchover for R22 systems



Save time and money, without compromising performance, when you replace existing R22 equipment. VRV®III-Q is the smart way to achieve:

- Dramatically reduced installed cost – up to 50% saving compared with complete new system.
- Ability to reuse all existing pipework and possibility to reuse existing fan coils.
- Flexibility to use with existing pipework connected to other non-Daikin systems.
- Automatic pipework cleaning function.
- Higher energy efficiency and lower CO<sub>2</sub> emissions than retrofitting refrigerant.
- Major potential to increase system capacity.

For more information, visit [www.daikin.co.uk/r22r](http://www.daikin.co.uk/r22r)

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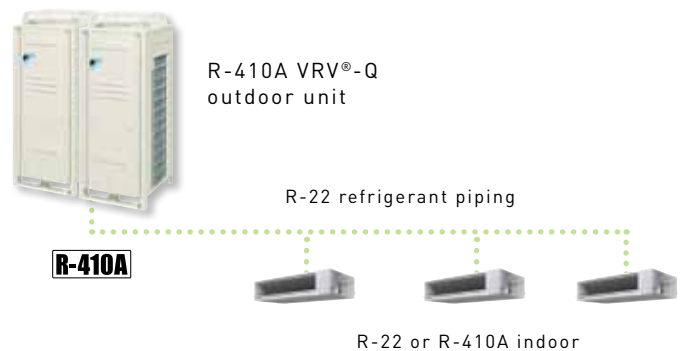


# REPLACEMENT VRV®

## The Daikin solution to R-22 phase out

### What is R-22 and why is it phased-out?

R-22 is a hydrochlorofluorocarbon (HCFC) which was commonly used in air conditioning systems. When R-22 is released into the air, the ultraviolet rays of the sun cause it to decompose and chlorine is released in the stratosphere. Chlorine reacts with ozone, reducing the amount of the ozone. Due to ozone layer depletion, harmful ultraviolet rays reach the surface of the earth giving rise to a number of health and environmental issues. The international community therefore, signed the Montreal Protocol to phase out ozone depletion materials by 2030. The European Union however, decided to ban R-22 already in 2015.

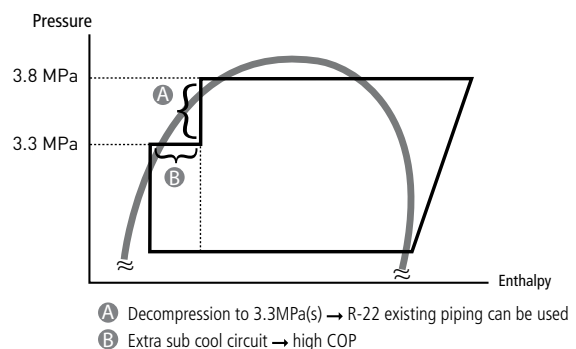


- > All units older than the K-Series must be replaced.
- > For heat recovery applications, the BS-boxes need to be replaced.

## Technologies of VRV®-Q

### Reduced pressure

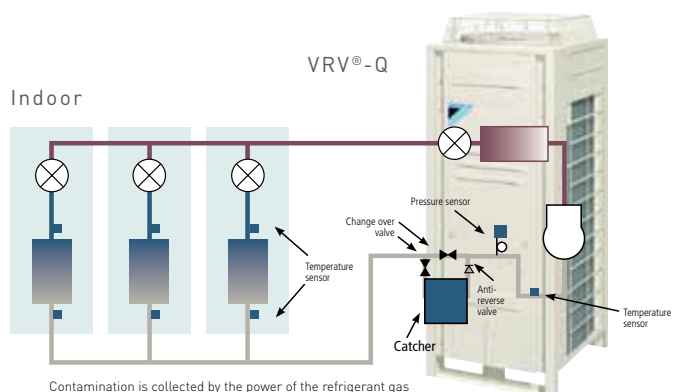
As R-22 VRV® systems work on a lower pressure than R-410A systems; thus the copper refrigerant piping was also designed for these lower pressures. Therefore the Replacement VRV® (VRV®-Q) must operate at lower pressures than the standard VRV®III series. However thanks to the sub cool circuit a high efficiency level can be kept even with the lower pressures.



### Refrigerant pipe cleaning

When replacing an air conditioning system, the piping is normally replaced as well since traces of old refrigerant and oil mixed with the oil and refrigerant of the new system can cause the equipment to malfunction.

In order to allow re-use of existing R-22 piping with an R-410A system Daikin developed a technology to capture and retain the contamination left in the refrigerant piping. During the charging of the system, R-410A refrigerant starts circulating through the copper piping collecting the contamination left in the refrigerant piping. The refrigerant including the remaining oil from the R-22 system is filtered in the outdoor unit and the contamination is deposited in the outdoor unit. This process is executed only once and takes about 1 hour (depending on system characteristics). Daikin is the first manufacturer in the industry to develop this combination of automatic charging and refrigerant pipe cleaning function.



# Features of VRV<sup>®</sup>-Q

## Warranty

Unlike using drop in refrigerants, the VRV<sup>®</sup>-Q condensing unit is provided with a manufacturers warranty, providing the existing pipework condition is deemed suitable for re-use.

## Fast installation

It is not necessary to remove the existing piping and even the indoor units can remain (depending on type of indoor unit). The unit automatically charges the refrigerant and cleans the refrigerant piping. This unique Daikin feature makes the installation time even shorter.

## Limited and planned-downtime

As the refrigerant piping can be maintained the installation is less intrusive and less time consuming than for a completely new system. Moreover, downtime can be carefully planned: whereas if a problem occurs when not enough reclaimed R-22 is available, a long and unplanned downtime can be the result.

## Limited and phased investment cost

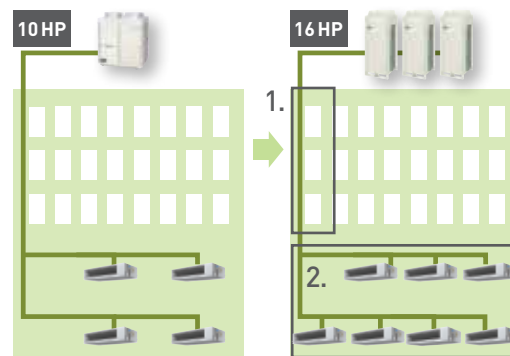
It is possible to spread the various stages of replacement over a certain period of time because the indoor units can remain in many cases. The air conditioning replacement therefore, can be incorporated in the general refurbishment schedule of the building and the investment cost can be spread. A further reduction in installation cost can be achieved by maintaining the old refrigerant copper pipe work.

## No restrictions on system history

As a result of the combined automatic charging and refrigerant pipe cleaning function, it is possible to ensure a clean piping network.

## Possibility to increase capacity

Cooling loads often increase subsequent to the initial installation of the air conditioning system. The Replacement VRV<sup>®</sup> (VRV<sup>®</sup>-Q) enables system capacity to be increased without changing the refrigerant piping (depending on system characteristics). For example: It is possible to install a 16 HP Replacement VRV<sup>®</sup> on the refrigerant piping of an R-22 10 HP system.



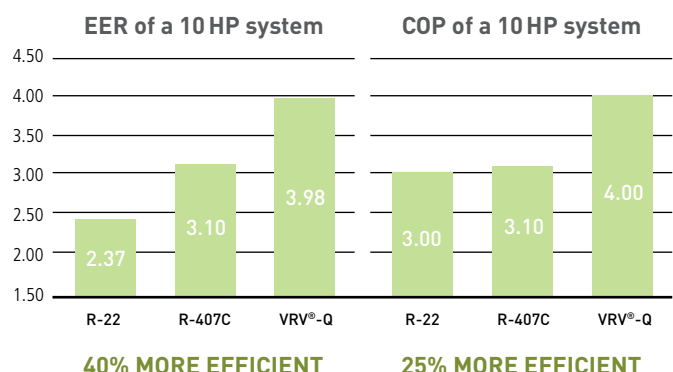
1. Keep main piping      2. Add indoor units

## Environmental awareness

R-410A not only has a zero ozone depletion potential, it is also proven to be more energy efficient than R-22.

## High efficiency

Upgrading an old R-22 system to a Replacement VRV<sup>®</sup> system will result in increased system efficiency. Efficiency gains of more than 40% can be realised, by virtue of technological developments in heat pump technology and the more efficient R-410A refrigerant. Increased energy efficiency equals lower energy consumption, subsequent lower energy costs and lower CO<sub>2</sub> emissions.



R-22: RSXY10KA7  
R-407C: RSXYP10L7  
R-410A: RQYQ280P

# Specifications

## Heat Recovery

				RQCEQ-P																			
				280	360	460	500	540	636	712	744	816	848										
Outdoor unit modules		RQEQ140P		2		2		1			1		1										
		RQRQ180P			2		1		2		3		2		1								
		RQEQ212P										3		1		2		3		4			
Capacity range		HP		10		13		16		18		20		22		24		26		28		30	
Capacity	cooling	nom.	kW	28.0		36.0		45.0		50.0		54.0		63.6		71.2		74.4		81.6		84.8	
	heating	nom.	kW	32.0		40.0		52.0		56.0		60.0		67.2		78.4		80.8		87.2		89.6	
Power input	cooling	nom.	kW	7.04		10.3		12.2		13.9		15.5		21.9		21.2		23.3		27.1		29.2	
	heating	nom.	kW	8.00		10.7		13.4		14.7		16.1		17.7		20.7		21.2		23.1		23.6	
EER	cooling			3.98		3.48		3.77		3.61		3.48		2.90		3.36		3.19		3.01		2.90	
COP	heating			4.00		3.72		3.89		3.80		3.72		3.79		3.80		3.81		3.77		3.79	
Max n° of indoor units to be connected					16		20		26		29		33		36		40		43		47		50
Indoor index connection	minimum			125		162.5		200		225		250		275		300		325		350		375	
	standard			250		325		400		450		500		550		600		650		700		750	
	maximum			325		422.5		520		585		650		715		780		845		910		975	
Dimensions	unit	height	mm	1680																			
		width	mm	635+ 635			635+ 635+ 635			635+ 635+ 635+ 635													
		depth	mm	765																			
Weight		kg		175+ 175		175+ 175+175			179+179	175+175	175+175	175+179	175+179	179+179									
Sound pressure	cooling	nom.	dBA	57		61		61		62		63		64		63		64		65		66	
Fan	type			Propeller																			
	air flow rate (nominal at 230V)	cooling	m³/min	95+ 95		110+110		95+ 95 + 110		95+ 110+110		110+ 110 + 110		95+ 110+ 110+ 110		110+ 110+ 110+ 110							
	external static pressure (max.)		Pa	78																			
Compressor	motor	type		Hermetically sealed scroll compressor																			
Operation range	cooling	min. - max.	°CDB	-5~43																			
	heating	min. - max.	°CWB	-20~15.5																			
Refrigerant	type			R-410A																			
	charge	kg		10.3+ 10.3		10.6+ 10.6		10.3+10.3 +10.6		10.3+10.6 +10.6		10.6+10.6 +11.2		11.2+11.2 +10.6+11.2		10.3+10.6 +11.2+11.2		10.3+10.6 +11.2+11.2		10.6+11.2 +11.2+11.2		11.2+11.2 +11.2+11.2	
	control			Electronic expansion valve																			
Piping connections	liquid		mm	9.52		12.7		15.9			19.1												
	gas		mm	22.2		25.4		28.6			34.9												
	discharge gas		mm	19.1		22.2			25.4			28.6											
	pressure equaliser tube		mm	-		-		-		-		-		-		-		-		-		-	
	max. total length			m	300																		
	max. length between		OU-IU	m	120 (actual length)																		
level difference		OU-IU	m	50 (outdoor unit in highest position)																			
Power Supply				3~. 400V. 50Hz																			

### Notes:

Nominal cooling capacities are based on : indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 7.5m, level difference: 0m.

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m

## Accessories

VRV®III-Q - REPLACEMENT VRV® - Heat recovery	RQCEQ280PY1 RQCEQ360PY1	RQCEQ460PY1 RQCEQ500PY1	RQCEQ540PY1 RQCEQ636PY1	RQCEQ712PY1 RQCEQ744PY1 RQCEQ816PY1 RQCEQ848PY1
Fixing box	KJB111A			
Outdoor unit multi connection piping kit	BHFP26P36C		BHFP26P63C	BHFP26P84C

# Heating & Cooling

				RQYQ-P		RQCYQ-P				RQYP-A						
				140	180	280	360	460	500	540	615	680	730	785	850	
Outdoor unit modules	RQYQ140P			1		2		2	1							
	RQYQ180P				1		2	1	2	3						
	RQYP280A										1	1	1			
	RQYP335A										1			1		
	RQYP400A											1			1	
	RQYP450A												1	1	1	
Capacity range				HP	5	6.5	10	13	16	18	20	22	24	26	28	30
Capacity	cooling	nom.	kW	14.0	18.0	28.0	36.0	46.0	50.0	54.0	61.5	68.0	73.0	78.5	85.0	
	heating	nom.	kW	16.0	20.0	32.0	40.0	52.0	56.0	60.0	69.0	76.5	81.5	87.5	95.0	
Power input	cooling	nom.	kW	3.52	5.17	7.04	10.3	12.2	13.9	15.5	17.7	19.2	21.2	23.7	25.2	
	heating	nom.	kW	4.00	5.37	8.00	10.7	13.4	14.7	16.1	18.8	20.8	22.2	23.8	25.8	
EER	cooling			3.98	3.48	3.98	3.48	3.77	3.61	3.48	3.47	3.54	3.44	3.31	3.37	
COP	heating			4.00	3.72	4.00	3.72	3.89	3.80	3.72	3.67	3.68	3.67	3.68	3.68	
Max n° of indoor units to be connected				8	10	16	20	26	29	33	36	40	43	46	48	
Indoor index connection	minimum			62.5	81.25	125	162.5	200	225	250	275	300	325	350	375	
	standard			125	162.5	250	325	400	450	500	550	600	650	700	750	
	maximum			162.5	211.25	325	422.5	520	585	650	715	780	845	910	975	
Dimensions	unit	height	mm	1680												
		width	mm	635	635+ 635			635+ 635+ 635			930+ 930	930+1,240			1,240+1,240	
		depth	mm	765												
Weight			kg	175		175+ 175		175+175+175			292+292	292+384		384+384		
Sound pressure			nom.	dBA	54	58	57	61		62	63	62		63		
Fan	type			Propeller												
	air flow rate (nominal at 230V)	cooling	m³/min	95	110	95+ 95	110+110	95+ 95+110	95+ 110+110	110+ 110+110	185+200	185+233	185+233	200+233	233+233	
	external static pressure (max.)			Pa	78											
Compressor	motor	type			Hermetically sealed scroll compressor											
Operation range	cooling	min. - max.	°CDB	-5~43												
	heating	min. - max.	°CWB	-20~15.5												
Refrigerant	type			R-410A												
	charge	kg			11.1		11.1+ 11.1		11.1+11.1 +11.1			20.9+19.5	27.1+19.5	27.4+19.5	27.4+20.9	27.4+27.1
	control			Electronic expansion valve												
Piping connections	liquid	mm			9.52		12.7		15.9			19.1				
	gas	mm			15.9	19.1	22.2	25.4	28.6			31.8				
	max. total length			300												
	max. length between			OU-IU	120 (actual length)											
	level difference			OU-IU	50 (outdoor unit in highest position)											
Power Supply				3~, 400V, 50Hz												

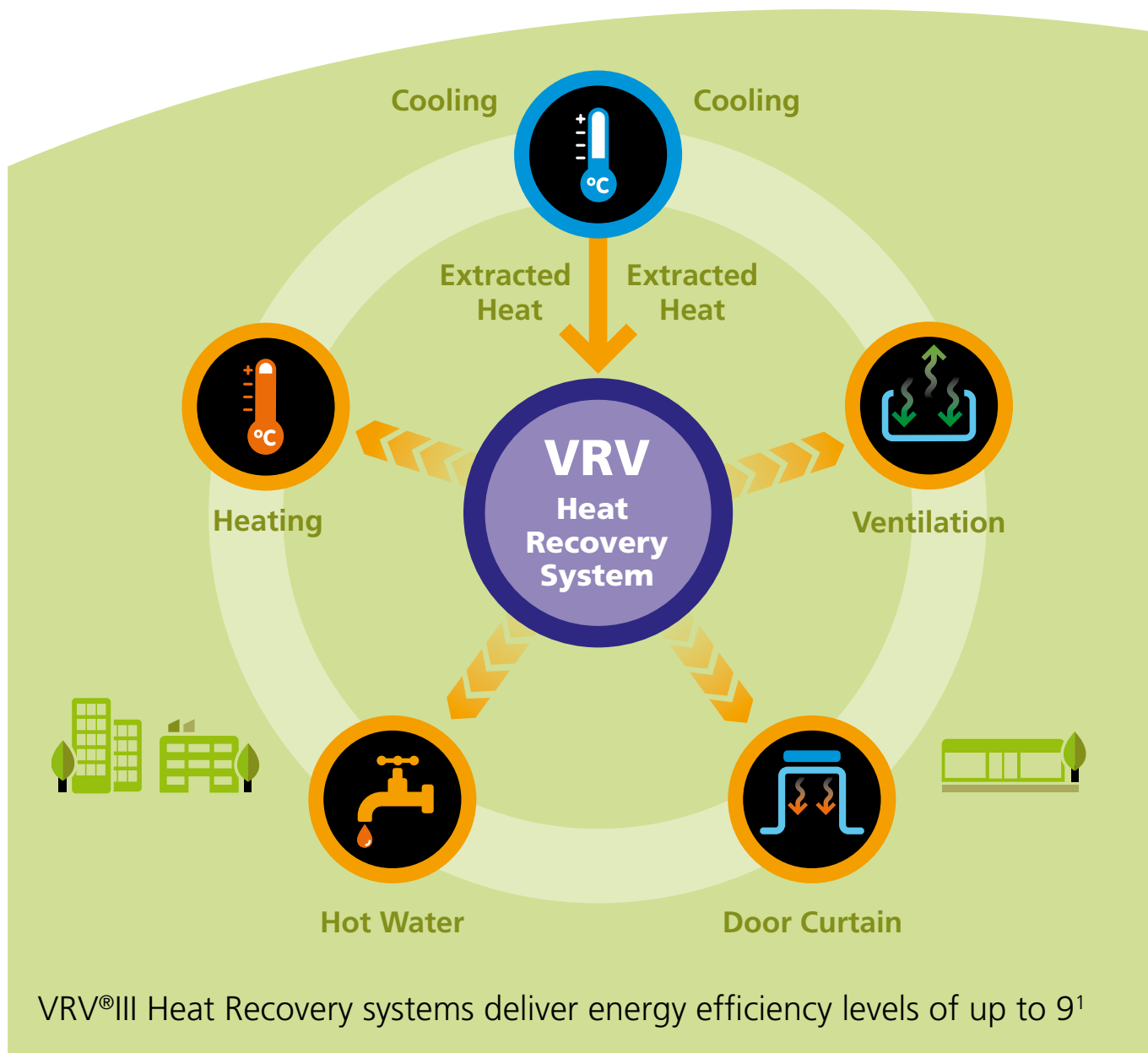
## Notes:

Nominal cooling capacities are based on : indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 7.5m, level difference: 0m.  
 Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m

## Accessories

VRV®III-Q - REPLACEMENT VRV® - Heat pump	RQYQ140PY1	RQYQ180PY1	RQCYQ280PY1 RQCYQ360PY1	RQCYQ460PY1 RQCYQ500PY1	RQCYQ540PY1
Cool / Heat selector	KRC19-26A				
Fixing box	KJB111A				
Outdoor unit multi connection piping kit	-	-	BHFP22P36C	BHFP22P54C	

# Achieve the highest energy efficiency levels in the industry



VRV®III Heat Recovery systems deliver energy efficiency levels of up to 9<sup>1</sup>

**VRV®III Heat Recovery is the all-in-one solution to maximise energy efficiency.**

**A fully integrated system for heating, cooling, air curtains and hot water – to help achieve zero waste heat.**

- Free extracted heat from areas being cooled is diverted to areas requiring heat – to minimise operating costs.
- Reclaimed heat can be used to power door air curtains and even hot water supplies.
- Numerous heat recovery options, with 14 different types of indoor units available.
- Suitable for all size of systems: a single outdoor unit (11kW to 170kW) can connect up to 64 indoor units.

For more information please visit [www.daikin.co.uk/heat-recovery](http://www.daikin.co.uk/heat-recovery)

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<sup>1</sup> REYQ8P8 model at 50% cooling – 50% heating load in conditions: outdoor temperature 11° CDB, indoor temperature: 18° CWB, 22°CDB



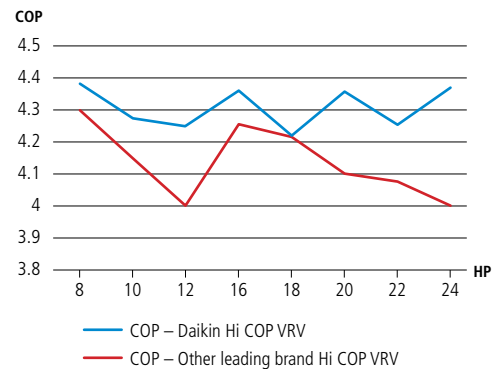
# REY(H)Q8-24P

## VRV<sup>®</sup>III Inverter Heat Recovery High COP Combination



REYHQ24P

- Heat Recovery operation can provide energy efficiency levels in excess of 9.0
- Top energy efficiency in Daikin heat recovery range, with high rate of ECA qualification
- Wide range of indoor units: 13 different models in a total of 75 variations
- Continuous heating during defrost (resulting in a higher integrated heating capacity)
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Increased piping flexibility: maximum piping length: 165m, increased total piping length: 1,000m
- The ability to control each conditioned zone keeps VRV<sup>®</sup>III system running costs to an absolute minimum
- Only those areas calling for air conditioning need to be cooled or heated and the system can be shut down completely in unoccupied rooms
- Quick cool/heat change over
- Improved refrigerant containment check
- Extra low noise during night time operation (step 1: 50 dBA; step 2: 45 dBA)
- Possibility to extend the operation range in cooling down to -20°C



HEAT RECOVERY			8	10	12	16	18	20	22	24	
<b>Outdoor Units</b>											
Independent unit	Outdoor Unit		REYQ8P8	REYQ10P8	REYQ12P8	REMQ8P9	REMQ8P9	REMQ8P9	REMQ10P8	REMHQ12P8	
	Outdoor Unit		REYQ8P8	REYQ10P8	REYQ12P8	REMQ8P9Y1B	REMQ10P9	REMQ12P9	REMHQ12P8	REMHQ12P8	
Capacity range		HP	8	10	12	16	18	20	22	24	
Capacity	Cooling	kW	22.4	28.0	33.5	45.0	50.4	56.0	61.5	67.0	
	Heating	kW	25.0	31.5	37.5	50.0	56.5	62.5	69.0	75.0	
Power Input (Nominal)	Cooling	kW	5.20	7.09	8.72	10.5	12.7	13.9	16.0	17.2	
	Heating	kW	5.71	7.38	8.84	11.5	13.4	14.3	16.3	17.2	
EER	Cooling		4.31	3.95	3.84	4.29	3.98	4.04	3.84	3.89	
	Heating		4.38	4.27	4.24	4.36	4.22	4.36	4.24	4.37	
Dimensions	(Height x Width x Depth)	mm	1,680 x 1,300 x 765								
Weight	Unit	kg	331								
Sound Level	Sound Power	Cooling	dBA	78	78	80	82	81	85	85	87
		Cooling	dBA	58	58	60	62	61	64	64	66
Operation Range	Cooling	Min~Max	°CDB		-5.0~43.0						
	Heating	Min~Max	°CWB		-20.0~-15.0						
Refrigerant			R-410A								
Power Supply			3~/380-415V/50Hz				3~/400V/50Hz				
Piping connections	Liquid (OD)	mm					12.7				15.9
	Gas	mm					28.6				34.9
	Max total length	m					1000				
Max n° of indoor units to be connected							26	32	35	39	



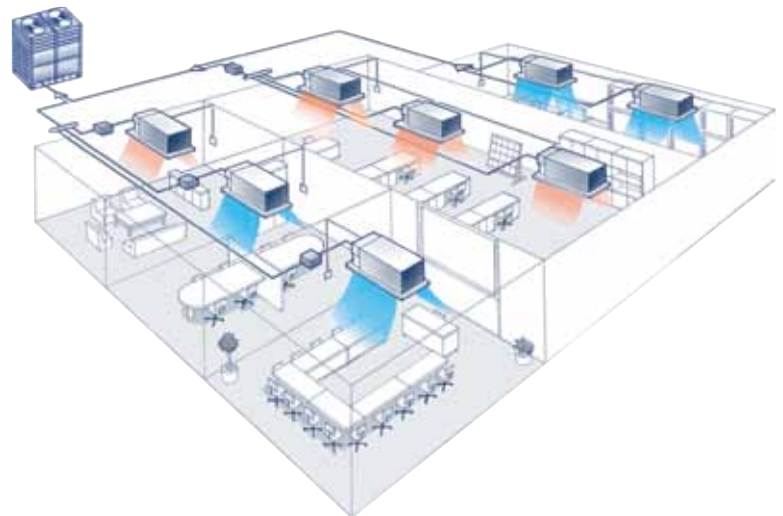


# REYQ8-48P8/P9

## VRV<sup>®</sup>III Heat Recovery Compact Combination



REYQ46-48P8Y1B



- Increased EER/COP thanks to the redesigned 8 and 12HP stand alone units and 8HP modular unit
- Its operation range for example 8hp to 48hp in 2hp increment steps (21 system combinations), is wider than any of its contemporaries.
- Its ability to run no less than 64 indoor units in heat recovery format cannot at present be matched by other comparable systems.
- Continuous heating during defrost (resulting in a higher integrated heating capacity).
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Increased piping flexibility: maximum piping length: 165m, increased total piping length: 1,000m
- The ability to control each conditioned zone keeps VRV<sup>®</sup>III system running costs to an absolute minimum.
- Only those areas calling for air conditioning need to be cooled or heated and the system can be shut down completely in unoccupied rooms.
- Quick cool/heat change over.
- Improved refrigerant containment check function
- Flexible combination of outdoor units: Small footprint combination, high COP combination or any other combination of your choice

REYQ-P8		8	10	12	14	16	18	20	22	24	26	28				
Stand alone units	REYQ8P9	1					Not Applicable									
	REYQ10P8		1													
	REYQ12P9			1												
	REYQ14P8				1											
	REYQ16P8					1										
Modular units	REMQ8P9	Not Applicable					1	1								
	REMQ10P8						1		1		1					
	REMQ12P8										1	1	2		1	
	REMQ14P8															1
	REMQ16P8														1	1
Number of outdoor units		1	1	1	1	1	2	2	2	2	2	2				

REYQ-P8		30	32	34	36	38	40	42	44	46	48
Stand alone units	REYQ8P9	Not Applicable									
	REYQ10P8										
	REYQ12P9										
	REYQ14P8										
	REYQ16P8										
Modular units	REMQ8P9			1	1						
	REMQ10P8			1		1		1			
	REMQ12P8				1	1	2		1		
	REMQ14P8	1								1	
	REMQ16P8	1	2	1	1	1	1	2	2	2	3
Number of outdoor units		2	2	3	3	3	3	3	3	3	3



# REYQ8-48P8/P9

## VRV®III Heat Recovery

HEAT RECOVERY			8	10	12	14	16	
<b>REYQ-P8</b>								
Capacity range		HP	8	10	12	14	16	
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	
	Heating	kW	25.0	31.5	37.5	45.0	50.0	
Power Input (Nominal)	Cooling	kW	5.20	7.09	8.72	11.4	14.1	
	Heating	kW	5.71	7.38	8.84	11.0	12.8	
EER			4.31	3.95	3.84	3.51	3.19	
COP			4.38	4.27	4.24	4.09	3.91	
Dimensions	(Height x Width x Depth)	mm	1,680x1,300x765					
Weight		kg	331		339			
Sound Level	Sound Power	Cooling	dBA	78	78	80	83	84
	Sound Pressure	Cooling	dBA	58	58	60	62	63
Operation Range	Cooling	Min~Max	°CDD	-5~43				
	Heating	Min~Max	°CWB	-20~15				
Refrigerant			R-410A					
Power Supply			3~/380-415V/50Hz					
Max n° of indoor units to be connected			-					
Piping connections	Liquid (OD)/Gas	mm	952/19.1	952/22.2	12.7 / 28.6			
Max Total Length		m	1000					

HEAT RECOVERY			18	20	22	24	26	28	30	32
<b>REYQ-P8</b>										
Capacity range		HP	18	20	22	24	26	28	30	32
Capacity	Cooling	kW	50.4	55.9	61.5	67.0	73.0	78.5	85.0	90.0
	Heating	kW	56.5	62.5	69.0	75.0	81.5	87.5	95.0	100.0
Power Input (Nominal)	Cooling	kW	12.7	14.9	17.0	19.2	21.6	23.8	26.6	28.4
	Heating	kW	13.4	15.2	17.1	18.9	20.6	22.3	24.2	25.8
EER			3.98	3.76	3.62	3.49	3.38	3.30	3.20	3.17
COP			4.22	4.11	4.04	3.97	3.96	3.92	3.93	3.88
Dimensions	(Height x Width x Depth)	mm	1,680x930 + 930x765				1,680x930 + 1,240x765		1,680x1,240 + 1,240x765	
Weight		kg	204 + 254		254 + 254		254 + 334		334 + 334	
Sound Level	Sound Power	Cooling	dBA	81	83	83	83	83	83	83
	Sound Pressure	Cooling	dBA	61	62	63	63	63	63	63
Operation Range	Cooling	Min~Max	°CDD	-5~43						
	Heating	Min~Max	°CWB	-20~15						
Refrigerant			R-410A							
Power Supply			3~/380-415V/50Hz							
Max n° of indoor units to be connected			-							
Piping connections	Liquid (OD)/Gas	mm	15.9 / 28.6			15.9/34.9		19.1 / 34.9		
Max Total Length		m	1000							

HEAT RECOVERY			34	36	38	40	42	44	46	48
<b>REYQ-P8</b>										
Capacity range		HP	34	36	38	40	42	44	46	48
Capacity	Cooling	kW	95.4	101.0	107.0	112.0	118.0	124.0	130.0	135.0
	Heating	kW	107.0	113.0	119.0	125.0	132.0	138.0	145.0	150.0
Power Input (Nominal)	Cooling	kW	26.9	29.1	31.2	33.4	35.8	38.0	40.8	42.6
	Heating	kW	26.3	28.1	30.0	31.8	33.5	35.2	37.1	38.7
EER			3.55	3.47	3.43	3.35	3.30	3.26	3.19	3.17
COP			4.07	4.02	3.97	3.93	3.94	3.92	3.91	3.88
Dimensions	(Height x Width x Depth)	mm	1,680x930 + 930 + 1,240x765				1,680x930 + 1,240 + 1,240x765		1,680x1,240 + 1,240 + 1,240x765	
Weight		kg	204 + 254 + 334		254 + 254 + 334		254 + 334 + 334		334 + 334 + 334	
Sound Level	Sound Power	Cooling	dBA	84	85	85	85	85	85	85
	Sound Pressure	Cooling	dBA	64	64	65	65	65	65	65
Operation Range	Cooling	Min~Max	°CDD	-5~43						
	Heating	Min~Max	°CWB	-20~15						
Refrigerant			R-410A							
Power Supply			3~/380-415V/50Hz							
Max n° of indoor units to be connected			-							
Piping connections	Liquid (OD)/Gas	mm	19.1 / 34.9		19.1 / 41.3					
Max Total Length		m	1000							

# BSVQ-P8

## Individual Branch Selector for VRV® Heat Recovery

- High comfort levels: individual control and change over of 1 group of indoor units
- Maximum design flexibility because individual and multi boxes can be combined in one system
- Low built-in height
- No drain piping needed
- Allows multi tenant applications (option PCB required)



BSVQ100P8

				BSVQ100P8	BSVQ160P8	BSVQ250P8
Maximum capacity index of connectable indoor units				20 < x ≤ 100	100 < x ≤ 160	160 < x ≤ 250
Maximum number of connectable indoor units				5	8	
Power input	Cooling	kW		0.005		
	Heating	kW		0.005		
Dimensions	(Height x Width x Depth)			mm 207 x 388 x 326		
Weight				14		15
Piping connections	Outdoor unit	Liquid / gas / discharge gas	Type	Brazeing connection		
			∅ mm	9.52 / 15.9 / 12.7		9.52 / 22.2 / 19.1
	Indoor unit	Liquid / gas	Type	Brazeing connection		
			∅ mm	9.52 / 15.9		9.52 / 22.2
Power Supply				1~/220-240V/50Hz		

# BSV4/6Q-PV

## Multi Branch Selector for VRV® Heat Recovery

- Rapid installation resulting from less brazing points and wiring
- High comfort levels: individual control and change over of up to 4 or 6 groups of indoor units
- Maximum design flexibility because individual and multi boxes can be combined in one system
- Low built-in height
- No drain piping needed



BSV4Q100PV

				BSV4Q100PV	BSV6Q100PV
Maximum capacity index of connectable indoor units				400	600
Maximum capacity index of connectable indoor units per branch				100	
Number of branches				4	6
Maximum number of connectable indoor units				20	30
Maximum number of connectable indoor units per branch				5	
Power input	Cooling	kW		0.020	0.030
	Heating	kW		0.020	0.030
Dimensions	(Height x Width x Depth)			mm 209 x 1,053 x 635	
Weight				kg 60	
Piping connections	Outdoor unit	Liquid / gas / discharge gas	Type	Brazeing connection	
			∅ mm	12.7 x 28.6 x 19.1	
	Indoor unit	Liquid / gas	Type	Brazeing connection	
			∅ mm	9.5 / 15.9	
Power Supply				1~/220-240V/50Hz	

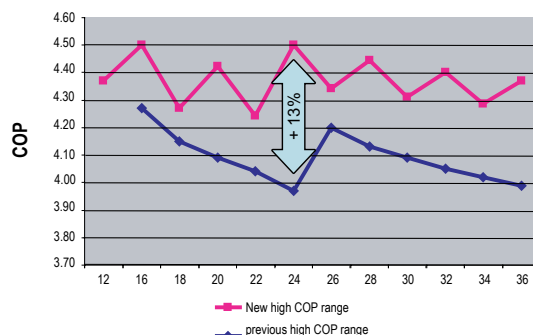


# RXYHQ12-36P8

## VRV® III Inverter Heat Pump High COP Combination



- Top energy efficiency in Daikin heat pump range, thanks to the redesigned 8HP unit and newly developed 12HP high COP unit
- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact size of outdoor units
- Increased external static pressure: up to 78.4Pa
- 2 steps in night quiet mode: eg. 10HP: 58 dBA, 1st step: 54dBA, 2nd step: 45dBA
- RoHS compliant
- Easy combination with HRV
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Refrigerant containment check function



RXYQ-P8		12	16	18	20	22	24	26	28	30	32	34	36
Modules	new => RXYQ8P8W1B		2	1	1		3	2	1	1	1		
	RXYQ10P7W1B			1		1		1	2	1		1	
	new => RXYHQ12P8W1B	1			1	1				1	2	2	3

HEAT PUMP			12	16	18	20	22	24	26	28	30	32	34	36	
<b>Outdoor Units</b>			12	16	18	20	22	24	26	28	30	32	34	36	
Capacity range			HP												
Capacity	Cooling	kW	33.5	44.8	50.4	56.0	61.5	67.2	72.8	78.4	84.0	89.4	95.0	101.0	
	Heating	kW	37.5	50.0	56.5	63.0	69.0	75.0	81.5	88.0	94.5	100.0	107.0	113.0	
Power input (nominal)	Cooling	kW	8.6	10.4	12.6	13.8	16.0	15.7	17.8	19.0	21.2	22.4	24.7	25.9	
	Heating	kW	8.6	11.1	13.2	14.3	16.3	16.7	18.8	19.8	21.9	22.7	24.9	25.9	
EER			3.89	4.29	4.00	4.05	3.84	4.29	4.09	4.12	3.96	3.99	3.85	3.89	
COP			4.37	4.50	4.27	4.42	4.24	4.50	4.34	4.44	4.31	4.40	4.79	4.37	
Dimensions (Height x Width x Depth)			1680x1240x765												
Sound Level	Sound Power	Cooling	dBA		80	82	82	83	83	83	83	83	85	85	85
	Sound Pressure	Cooling	dBA		60	60	61	62	62	62	62	63	63	64	64
Operation Range	Cooling	Min~Max	°CDB												
	Heating	Min~Max	°CWB												
Refrigerant			R-410A												
Power Supply			3N~/400V/50Hz												
Max n° of indoor units to be connected			19	26	29	32	35	39	42	45	48	52	55	58	
Piping connections	Liquid (OD)/Gas	mm	12.7 / 28.6	12.7 / 28.6	15.9 / 28.6			15.9 / 34.9		19.1 / 34.9			19.1 / 41.3		
Max total length			m												
			1000												



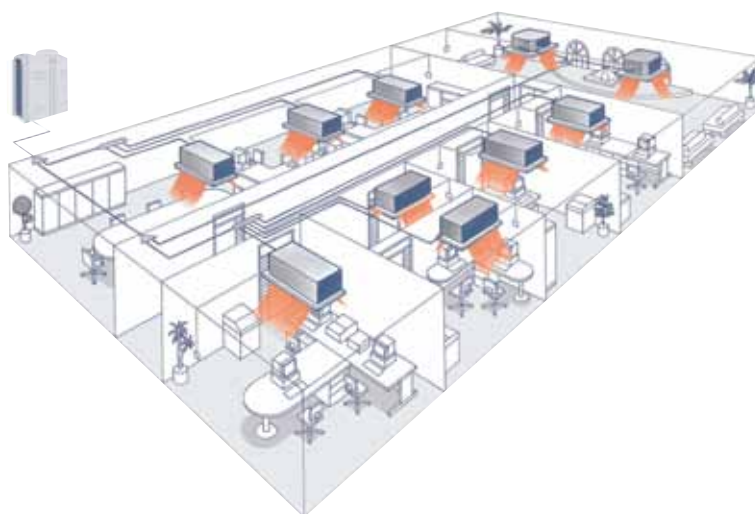
# RXYQ5-54P(A)/P8(A)

## VRV<sup>®</sup> III Inverter Heat Pump Small Footprint Combination



RXYQ44P8  
RXYQ46-48P7

- Increased EER/COP thanks to the redesigned 8HP unit
- Outdoor unit capacity up to 54 HP
- Wide range of indoor units: 13 different models in a total of 75 variations
- Flexible combination of outdoor units: small footprint combination, high COP combination or any other combination of your choice
- Compact size of outdoor units
- Increased external static pressure: up to 78.4Pa
- 2 steps in night quiet mode: eg. 10HP: 58 dBA, 1st step: 54dBA, 2nd step: 45dBA
- RoHS compliant
- Easy combination with HRV
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Refrigerant containment check function



RXYQ-P(A)/P8(A)	5	8	10	12	14	16	18	20	22	24	26	28	30
RXYQ5P7W1B	1	Not applicable											
RXYQ8P8W1B		1						1			1		
RXYQ10P7W1B			1						1			1	
RXYQ12P7W1B				1				1	1	2			1
RXYQ14P7W1BA					1								
RXYQ16P7W1BA						1							
RXYQ18P7W1BA							1					1	1

new->

RXYQ-P(A)/P8(A)	32	34	36	38	40	42	44	46	48	50	52	54
RXYQ5P7W1B	Not applicable											
RXYQ8P8W1B				1			1					
RXYQ10P7W1B					1			1				
RXYQ12P7W1B				1	1	2			1			
RXYQ14P7W1BA	1									1		
RXYQ16P7W1BA		1									1	
RXYQ18P7W1BA	1	1	2	1	1	1	2	2	2	2	2	3





# RXYQ5-54P(A)/P8(A)

## VRV® III Inverter Heat Pump Small Footprint Combination

HEAT PUMP				5	8	10	12	14	16	18	
<b>Outdoor Units</b>											
Capacity range		HP		5	8	10	12	14	16	18	
Capacity	Cooling	kW		14.0	22.4	28.0	33.5	40.0	45.0	49.0	
	Heating	kW		16.0	25.0	31.5	37.5	45.0	50.0	56.5	
Power input (nominal)	Cooling	kW		3.52	5.22	7.42	9.62	12.4	14.2	16.2	
	Heating	kW		4.00	5.56	7.70	9.44	11.30	12.90	15.30	
EER				3.98	4.29	3.77	3.48	3.23	3.17	3.02	
COP				4.00	4.50	4.09	3.97	3.98	3.88	3.69	
Dimensions	(Height x Width x Depth)	mm		1,680x635x765			1,680x930x765		1,680x1,240x765		
Weight		kg		159	187	240		316		324	
Sound Level	Sound Power	Cooling	dBA	72	78			80			
	Sound Pressure	Cooling	dBA	54	57	58	60				
Operation Range	Cooling	Min~Max	CDB							-5.0~43.0	
	Heating	Min~Max	CWD							-20.0~15.0	
Refrigerant										R-410A	
Power Supply										3N~/400V/50Hz	
Max n° of indoor units to be connected				8	13	16	19	23	26	29	
Piping connections	Liquid (OD)/Gas	mm		9.52 / 15.9	9.52 / 19.1	9.52 / 22.2	12.7 / 28.6			15.9 / 28.6	
Max. total length		m								1000	

HEAT PUMP				20	22	24	26	28	30	32	34	36	
<b>Outdoor Units</b>													
Capacity range		HP		20	22	24	26	28	30	32	34	36	
Capacity	Cooling	kW		55.9	61.5	67.0	71.4	77.0	82.5	89.0	94.0	98.0	
	Heating	kW		62.5	69.0	75.0	81.5	88.0	94.0	102.0	107.0	113.0	
Power input (nominal)	Cooling	kW		14.7	17.0	19.2	20.9	23.6	25.8	28.6	30.4	32.4	
	Heating	kW		14.9	17.1	18.9	20.7	23.0	24.7	26.6	28.2	30.6	
EER				3.80	3.62	3.49	3.41	3.26	3.20	3.11	3.09	3.02	
COP				4.18	4.04	3.97	3.94	3.83	3.81	3.83	3.79	3.69	
Dimensions	(Height x Width x Depth)	mm											
Weight		kg											
Sound Level	Sound Power	Cooling	dBA	83	83	83	85	85	85	85	85	86	
	Sound Pressure	Cooling	dBA	62	63	63	64	65	65	65	65	66	
Operation Range	Cooling	Min~Max	CDB									-5.0~43.0	
	Heating	Min~Max	CWD									-20.0~15.0	
Refrigerant												R-410A	
Power Supply												3N~/400V/50Hz	
Max n° of indoor units to be connected				32	35	39	42	45	49	52	55	58	
Piping connections	Liquid (OD)/Gas	mm		15.9 / 28.6		15.9 / 34.9		19.1 / 34.9				19.1 / 41.3	
Max. total length		m										1000	

HEAT PUMP				38	40	42	44	46	48	50	52	54	
<b>Outdoor Units</b>													
Capacity range		HP		38	40	42	44	46	48	50	52	54	
Capacity	Cooling	kW		105.0	111.0	116.0	120.0	126.0	132.0	138.0	143.0	147.0	
	Heating	kW		119.0	126.0	132.0	138.0	145.0	151.0	158.0	163.0	170.0	
Power input (nominal)	Cooling	kW		30.6	33.2	35.4	36.9	39.8	42.0	44.8	46.6	48.6	
	Heating	kW		30.1	32.4	34.2	35.9	38.3	40.0	41.9	43.5	45.9	
EER				3.43	3.34	3.28	3.25	3.17	3.14	3.08	3.07	3.02	
COP				3.95	3.89	3.86	3.84	3.79	3.78	3.77	3.75	3.70	
Dimensions	(Height x Width x Depth)	mm											
Weight		kg											
Sound Level	Sound Power	Cooling	dBA	86	86	86	87	87	87	87	87	88	
	Sound Pressure	Cooling	dBA	66	66	66	67	67	67	67	67	68	
Operation Range	Cooling	Min~Max	CDB									-5.0~43.0	
	Heating	Min~Max	CWD									-20.0~15.0	
Refrigerant												R-410A	
Power Supply												3N~/400V/50Hz	
Max n° of indoor units to be connected				61							64		
Piping connections	Liquid (OD)/Gas	mm										19.1/41.3	
Max. total length		m										1000	



# RXYSQ4-6PA7V(Y)1B

## VRV®III-S Inverter Heat Pump



RXYSQ4-5-6PA7V(Y)1B

- High COP values
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Wide range of indoor units
- Power consumption limit setting
- Small capacities - 4, 5 & 6HP
- Slim & flexible design
- Space saving outdoor unit

HEAT PUMP				RXYSQ4PA7V1B	RXYSQ5PA7V1B	RXYSQ6PA7V1B
<b>Outdoor Unit (Single Phase)</b>						
Capacity range			HP	4	5	6
Capacity	Cooling		kW	11.2	14.0	15.5
	Heating		kW	12.5	16.0	18.0
Power Input (Nominal)	Cooling		kW	2.81	3.51	4.53
	Heating		kW	2.74	3.86	4.57
EER				3.99	3.99	3.42
COP				4.56	4.15	3.94
Dimensions	(Height x Width x Depth)		mm	1,345x900x320		
Weight			kg	120		
Sound Level	Sound Power	Cooling	dBA	66	67	69
		Heating	dBA	52	53	55
	Sound Pressure	Cooling	dBA	50	51	53
Operation Range	Cooling	Min~Max	°CDB	-5~46		
	Heating	Min~Max	°CWB	-20~-15.5		
Refrigerant				R-410A		
Power Supply				1N~/220-240V/50Hz		
Max n° of indoor units to be connected				6	8	9
Piping connections	Liquid (OD)/Gas/Drain		mm	9.52 / 15.9 / 26 x 3		
Max total length			m	300		

HEAT PUMP				RXYSQ4PA7Y1B	RXYSQ5PA7Y1B	RXYSQ6PA7Y1B
<b>Outdoor Unit (Three Phase)</b>						
Capacity range			HP	4	5	6
Capacity	Cooling		kW	11.2	14.0	15.5
	Heating		kW	12.5	16.0	18.0
Power Input (Nominal)	Cooling		kW	2.89	3.61	4.65
	Heating		kW	2.82	3.97	4.69
EER				3.88	3.88	3.33
COP				4.43	4.03	3.83
Dimensions	(Height x Width x Depth)		mm	1,345x900x320		
Weight			kg	120		
Sound Level	Sound Power	Cooling	dBA	66	67	69
		Heating	dBA	52	53	55
	Sound Pressure	Cooling	dBA	50	51	53
Operation Range	Cooling	Min~Max	°CDB	-5~46		
	Heating	Min~Max	°CWB	-20~-15.5		
Refrigerant				R-410A		
Power Supply				3N~/380-415V/50Hz		
Max n° of indoor units to be connected				6	8	9
Piping connections	Liquid (OD)/Gas/Drain		mm	9.52 / 15.9 / 26 x 3		
Max total length			m	300		



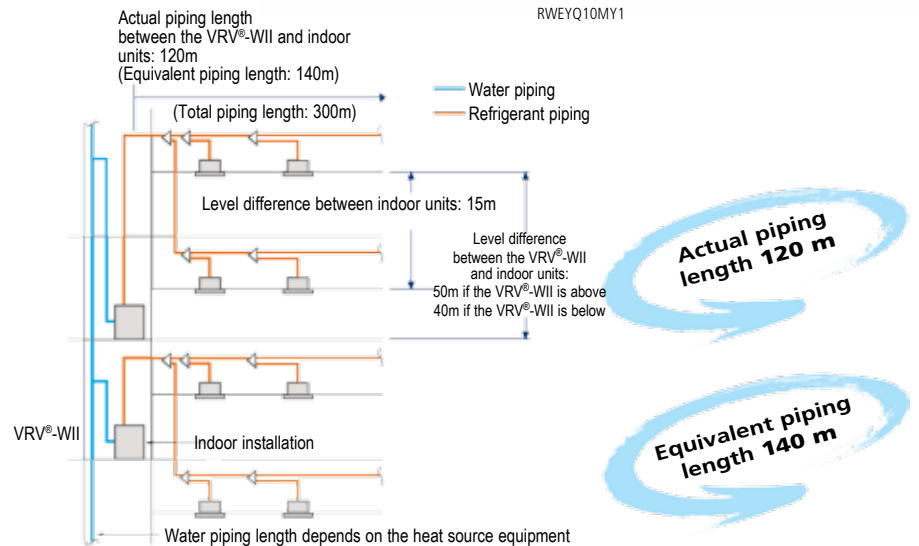
# RWEYQ8-30P

## Water Cooled VRV® Heat Pump



RWEYQ10MY1

- Wide condensing unit range: 10, 20 & 30HP via 1 single refrigerant circuit
- High COP values: 5.21 nominal value
- Up to 32 indoor units connectable to a 30HP condensing unit
- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact design 1000mm (H) x 780mm (W) x 550mm (D)
- Operation range (inlet water temperature): 10-45°C
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Flexible piping length



RWEYQ-P		8	10	16	18	20	24	26	28	30
Modules	RWEYQ8P	1		2	1		3	2	1	
	RWEYQ10P		1		1	2		1	2	3

HEAT PUMP				8	10	16	18	20	24	26	28	30
<b>Outdoor Units</b>												
Capacity	Cooling	kW		22.4	26.7	44.8	49.1	53.4	67.2	71.5	75.8	80.1
	Heating	kW		25.0	31.5	50.0	56.5	63.0	75.0	81.5	88.0	94.5
Power Input (Nominal)	Cooling	kW		4.55	6.03	9.10	10.6	12.1	13.7	15.1	16.6	18.1
	Heating	kW		4.24	6.05	8.48	10.3	12.1	12.7	14.5	16.3	18.2
EER				4.92	4.43	4.92	4.63	4.41	4.91	4.74	4.57	4.43
COP				5.90	5.21	5.90	5.49	5.21	5.91	5.62	5.40	5.19
Dimensions	Unit	Height	mm	1,000								
		Width	mm	780		780+780		780+780+780				
		Depth	mm	550								
Weight	Unit	kg	149	150	149+149	150+149	150+150	149+149+149	150+149+149	150+150+149	150+150+150	
Sound Pressure (Nominal)	Cooling	dB(A)	50	51	53	54	55	55	55	55	56	
	Heating	dB(A)										
Inlet Water Temperature	Cooling	Min~Max	°C	10~45								
	Heating	Min~Max	°C	10~45								
Refrigerant				R-410A								
Power Supply				3~/400V/50Hz								
Piping connections	Liquid (OD)	mm	9.52		12.7		15.9		19.1			
	Gas	mm										
	Discharge gas	mm	19.1	22.2		28.6			34.9			
	Max total length	m					300					
Max n° of indoor units to be connected			13	16	26	29	32	36	36	36	36	





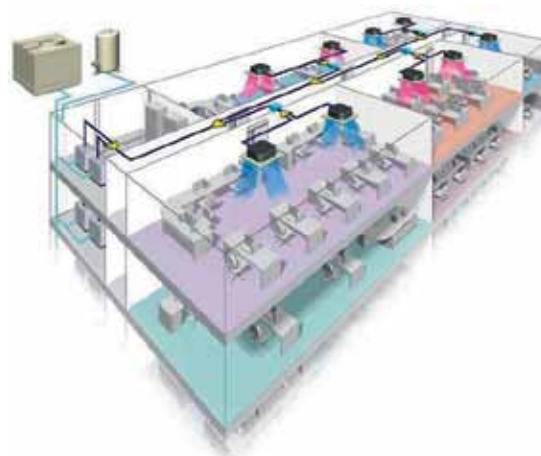
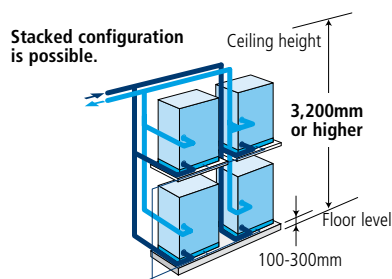
# RWEYQ8-30P

## Water Cooled VRV® Heat Recovery



RWEYQ10MY1

- Wide condensing unit range: 10, 20 & 30HP via 1 single refrigerant circuit
- High COP values: 5.21 nominal value
- Up to 32 indoor units connectable to a 30HP condensing unit
- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact design 1000mm (H) x 780mm (W) x 550mm (D)
- Operation range (inlet water temperature): 10-45°C
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Flexible piping length



RWEYQ-P		8	10	16	18	20	24	26	28	30
Modules	RWEYQ8P	1		2	1		3	2	1	
	RWEYQ10P		1		1	2		1	2	3

HEAT RECOVERY				8	10	16	18	20	24	26	28	30	
<b>Outdoor Units</b>													
Capacity	Cooling	kW		22.4	26.7	44.8	49.1	53.4	67.2	71.5	75.8	80.1	
	Heating	kW		25.0	31.5	50.0	56.5	63.0	75.0	81.5	88.0	94.5	
Power Input (Nominal)	Cooling	kW		4.55	6.03	9.10	10.6	12.1	13.7	15.1	16.6	18.1	
	Heating	kW		4.24	6.05	8.48	10.3	12.1	12.7	14.5	16.3	18.2	
EER				4.92	4.43	4.92	4.63	4.41	4.91	4.74	4.57	4.43	
COP				5.90	5.21	5.90	5.49	5.21	5.91	5.62	5.40	5.19	
Dimensions	Unit	Height	mm	1,000									
		Width	mm	780		780+780				780+780+780			
		Depth	mm	550									
Weight	Unit	kg	149	150	149+149	150+149	150+150	149+149+149	150+149+149	150+150+149	150+150+150		
Sound Pressure (Nominal)	Cooling	dB(A)	50	51	53	54		55		56			
	Heating	dB(A)											
Inlet Water Temperature	Cooling	Min~Max	°C	10~45									
	Heating	Min~Max	°C	10~45									
Refrigerant				R-410A									
Power Supply				3~/400V/50Hz									
Piping connections	Liquid (OD)	mm	9.52		12.7		15.9			19.1			
	Gas	mm	19.1	22.2	28.6			34.9					
	Discharge gas	mm	15.9	19.1	22.2			28.6					
	Max total length	m	300										
Max n° of indoor units to be connected				13	16	26	29	32	36	36	36	36	

# RWEYQ-PR

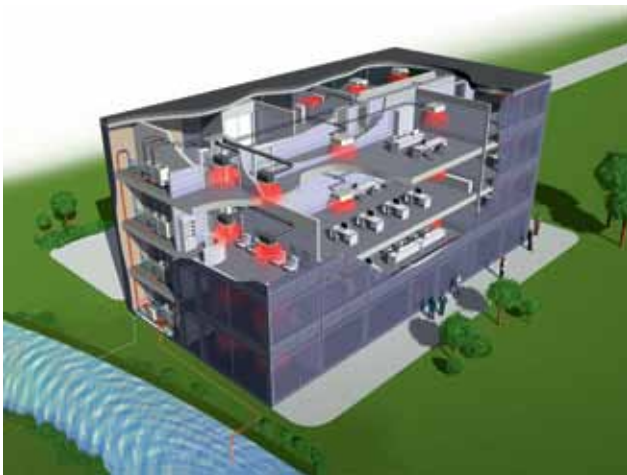
## Geothermal application VRV®III Water Cooled Inverter Heat Pump



- Heating with ground sourced water as a renewable energy source!
  - Groundwater remains at a relatively constant temperature during the year
  - Superior efficiency remains even at extreme outdoor temperatures
  - Uses renewable energy: ground water, water from a lake, water from rivers,...
- Extension of the operation range down to -10°C in heating
  - Add ethylene glycol to the water when the water inlet temperature is lower than 5°C
  - No multi combinations possible
  - Heat Pump and Heat Recovery systems



RWEYQ10PR



HEAT PUMP AND HEAT RECOVERY					
Outdoor Units				8	10
Independent Unit	Outdoor Unit			RWEYQ8PY1R	RWEYQ10PY1R
Capacity	Cooling	kW		22.4	26.7
	Heating	kW		25.0	31.5
Dimensions	Unit	Height	mm	1,000	
		Width	mm	780	
		Depth	mm	550	
Weight	Unit	kg	149	150	
Sound Pressure (Nominal)	Cooling	dB(A)	50	51	
Inlet Water Temperature	Cooling	°C	10~45		
	Heating	°C	-10~45		
Refrigerant				R-410A	
Power Supply				3~/400V/50Hz	
Piping connections	Liquid (OD)	HP / HR	mm	9.52 / 9.52	
	Gas	HP / HR	mm		
	Discharge gas	HP / HR	mm	- / 19.1	- / 22.2
	Max total length		m	19.1 / 15.9	22.2 / 19.1
Max n° of indoor units to be connected				13	16





# FXFQ-P9

## Round Flow Cassette



BRC1E51



BRC1D52



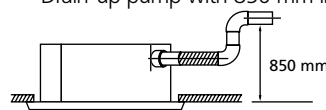
BRC7F532



FXFQ-P8

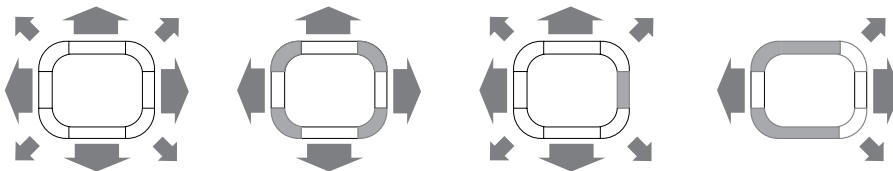
- Modern style decoration panel in pure white with grey louvres. Also available in white with white louvres
- 360° air discharge ensures uniform air flow and temperature distribution
- Air discharge from the corners avoids dead zones that may be subject to temperature differences
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- 23 different air flow patterns possible
- Allows multi tenant applications (option PCB required)

- Fresh air intake: standard knockout and optional kit
- Reduced installation height: 214mm for class 20-63
- Drain-up pump with 850 mm lift fitted as standard



- Optional daily Self-cleaning filter available.

### Examples of air flow patterns possible



FXFQ-P9			20	25	32	40	50	63	80	100	125	
<b>Indoor Units</b>												
Capacity	Cooling	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	
	Heating	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	
Power input	Cooling	kW	0.053			0.063	0.083	0.095	0.120	0.173	0.258	
	Heating	kW	0.045			0.055	0.067	0.114	0.108	0.176	0.246	
Dimensions	(Height x Width x Depth)		204x840x840						246x840x840		288x840x840	
Weight			20				21		24		26	
Air Flow Rate	Cooling	High/Low	m³/min			12.5 / 9.0	13.5 / 9.0	15.5 / 10.0	16.5 / 11.0	23.5 / 14.5	26.5 / 17.0	33.0 / 20.0
	Heating	High/Low	m³/min			12.5 / 9.0	13.5 / 9.0	15.0 / 9.5	17.5 / 12.0	23.5 / 14.5	28.0 / 17.5	33.0 / 20.0
Sound power (nominal)	Cooling		dBA			49.0	50.0	51.0	52.0	55.0	58.0	61.0
Sound Pressure	Cooling	High/Low	dBA			31.0 / 28.0	32.0 / 28.0	33.0 / 28.0	34.0 / 29.0	38.0 / 32.0	41.0 / 33.0	44.0 / 34.0
	Heating	High/Low	dBA			31.0 / 28.0	32.0 / 28.0	33.0 / 28.0	36.0 / 30.0	38.0 / 32.0	42.0 / 34.0	44.0 / 34.0
Refrigerant			R-410A									
Power Supply			1~/220-240V/50Hz									
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm	6.40 / 12.7 / 32						9.5 / 15.9 / 32			
Decoration Panel	Model	BYCQ140CW1 / BYCQ140CW1W										
	Colour	White panel (RAL9010) with grey louvres / White panel (RAL9010) with white louvres										
	HeightxWidthxDepth	mm	50x950x950									
	Weight	kg	5.5									



# FXZQ-M9

## 4-Way Blow Ceiling Mounted Cassette (600mm x 600mm)



BRC1E51



BRC1D52



BRC7E530



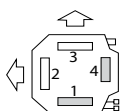
FXZQ-M9

- Extremely compact casing (575mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Modern style decoration panel in white (RAL9010)
- Low noise operation: down to 25 dBA sound pressure level
- Excellent low draught characteristics
- Vertical auto-swing function moves the discharge flaps up and down for efficient air distribution throughout the room
- Since the flaps can move to a 0 degree position, virtually no draught can be experienced
- Drain up pump with 750mm lift fitted as standard
- Allows multi tenant applications (option PCB required)
- 5 different air flow patterns: Any one of 5 air flow patterns can be freely selected between zero and 40 degrees and will then be maintained during the operational cycle of the air conditioner,
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners

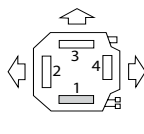
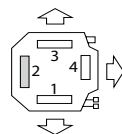
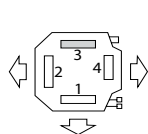
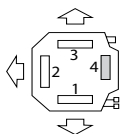
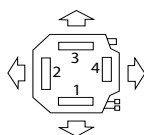


### Examples of air flow patterns possible

2-way blow



4-way blow



3-way blow

FXZQ-M9			20	25	32	40	50
<b>Indoor Units</b>							
Capacity	Cooling	kW	2.20	2.80	3.60	4.50	5.60
	Heating	kW	2.50	3.20	4.00	5.00	6.30
Power input	Cooling	kW		0.073	0.076	0.089	0.115
	Heating	kW		0.064	0.068	0.080	0.107
Dimensions	(Height x Width x Depth)		mm				
Weight			kg				
Air Flow Rate	Cooling	High/Low	m <sup>3</sup> /min		9.50 / 7.50	11.00 / 8.00	14.00 / 10.00
Sound power (nominal)	Cooling		dBA		47.0	49.0	53.0
Sound Pressure	Cooling	High/Low	dBA		30.0 / 25.0	32.0 / 26.0	36.0 / 28.0
Refrigerant			R-410A				
Power Supply			1~/220-240V/50Hz				
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm	6.4 / 12.7 / 32				
Decoration Panel	Model		BYFQ60B7W1				
	Colour		White (Ral 9010)				
	HeightxWidthxDepth	mm	55x700x700				
	Weight	kg	2.7				



# FXCQ-M8

## 2-Way Blow Ceiling Mounted Cassette



BRC1E51



BRC1D52

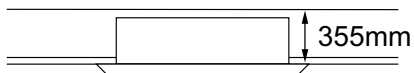


BRC7C62



FXCQ20,25,32M8

- Compact dimensions, can easily be mounted in a ceiling void of only 355mm



- Auto-swing function ensures efficient air and temperature distribution and prevents ceiling soiling,
- Drain up pump with 600mm lift fitted as standard
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Easy to clean flat suction grille

FXCQ-M8				20	25	32	40	50	63	80	125	
<b>Indoor Units</b>												
Capacity	Cooling	kW		2.20	2.80	3.60	4.50	5.60	7.10	9.00	14.00	
	Heating	kW		2.50	3.20	4.00	5.00	6.30	8.00	10.00	16.00	
Power input	Cooling	kW		0.077	0.092		0.130		0.161	0.209	0.256	
	Heating	kW		0.044	0.059		0.097		0.126	0.176	0.223	
Dimensions	(Height x Width x Depth)			305x780x600			305x995x600		305x1,180x600	305x1,670x600		
Weight	kg			26			31	32	35	47	48	
Air Flow Rate	Cooling	High/Low	m³/min	7.0 / 5.0	9.0 / 6.5		12.0 / 9.0		16.5 / 13.0	26.0 / 21.0	33.0 / 25.0	
	Heating	High/Low	m³/min	7.0 / 5.0	9.0 / 6.5		12.0 / 9.0		16.5 / 13.0	26.0 / 21.0	33.0 / 25.0	
Sound power (nominal)	Cooling		dBA	45.0			50.0		52.0	54.0	60.0	
Sound Pressure	Cooling	High/Low	dBA	33.0 / 28.0	35.0 / 29.0		35.5 / 30.5		38.0 / 33.0	40.0 / 35.0	45.0 / 39.0	
	Heating	High/Low	dBA	33.0 / 28.0	35.0 / 29.0		35.5 / 30.5		38.0 / 33.0	40.0 / 35.0	45.0 / 39.0	
Refrigerant				R-410A								
Power Supply				1~/230V/50Hz								
Piping connections	Liquid (OD)/Gas/Drain	mm	6.35 / 12.7 / 32						9.5 / 15.9 / 32			
Decoration Panel	Model	BYBC32GJW1			BYBC50GJW1			BYBC63GJW1		BYBC125GJW1		
	Colour	White (10Y9/0.5)										
	HeightxWidthxDepth	mm	53x1030x680			53x1245x680			53x1430x680		53x1920x680	
	Weight	kg	8.0			8.5			9.5		12.0	



# FKKQ-MA

## Ceiling Mounted Corner Cassette



BRC1E51



BRC1D52



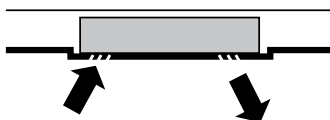
BRC4C61



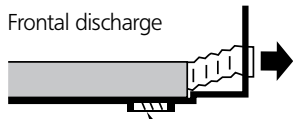
FKKQ63MA

- Slim design 215mm height
- Auto-swing function ensures efficient air and temperature distribution,
- Choice between 3 auto-swing positions for maximum comfort: standard, draught prevention, ceiling soiling prevention
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Drain up pump with 500mm lift fitted as standard

### Downward discharge

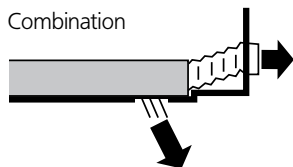


### Frontal discharge



Closed decoration panel

### Combination



FKKQ-MA				FKKQ25MAVE	FKKQ32MAVE	FKKQ40MAVE	FKKQ63MAVE
<b>Indoor Units</b>							
Capacity	Cooling		kW	2.80	3.60	4.50	7.10
	Heating		kW	3.20	4.00	5.00	8.00
Power input	Cooling		kW	0.066		0.076	0.105
	Heating		kW	0.046		0.056	0.085
Dimensions	(Height x Width x Depth)		mm	215x1,110x710			215x1,310x710
Weight			kg	31			34
Air Flow Rate	Cooling	High/Low	m <sup>3</sup> /min	11.00 / 9.00		13.00 / 10.00	18.00 / 15.00
Sound Pressure	Cooling	High/Low	dB(A)	38.0 / 33.0		40.0 / 34.0	42.0 / 37.0
Refrigerant				R-410A			
Power Supply				1~/220-240V/50Hz			
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 32			9.5 / 15.9 / 32
Decoration Panel	Model			BYK45FJW1			BYK71FJW1
	Colour			White			
	HeightxWidthxDepth		mm	70x1240x800			70x1440x800
	Weight		kg	8.5			9.5



# FXDQ-M9

## Concealed Ceiling Unit (Small)



BRC1E51



BRC1D52



BRC4C62



FXDQ20,25M9

- Designed for hotel bedrooms
- Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void
- The air suction direction can be altered from rear to bottom suction
- Air suction filter fitted as standard
- For easy mounting, the drain pan can be located to the left or the right of the unit
- Allows multi tenant application

FXDQ-M9					
Indoor Units				20	25
Capacity	Cooling		kW	2.20	2.80
	Heating		kW	2.50	3.20
Power input	Cooling		kW	0.050	
	Heating		kW	0.050	
Dimensions	(Height x Width x Depth)		mm	230x502x652	
Weight			kg	17	
Air Flow Rate	Cooling	High/Low	m <sup>3</sup> /min	6.70 / 5.20	7.40 / 5.80
	Heating	High/Low	m <sup>3</sup> /min	6.70 / 5.20	7.40 / 5.80
Sound power (nominal)	Cooling		dB(A)	50.0	
Sound Pressure	Cooling	High/Low	dB(A)	37.0 / 32.0	
	Heating	High/Low	dB(A)	37.0 / 32.0	
Refrigerant				R-410A	
Power Supply				1~/230V/50Hz	
Piping connections	Liquid (OD)/Gas/Drain (OD)		mm	6.4 / 12.7 / 27.2	





# FXDQ-PB/NB

## Slim Concealed Ceiling Unit



BRC1E51



BRC1D52

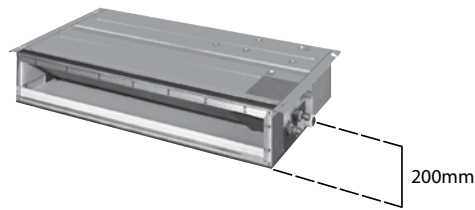


BRC4C65



FXDQ20-32PB

- Slim design for flexible installation
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Low noise: down to 29 dBA sound pressure level
- Adjustable external static pressure
- Optional discharge flanger available
- Drain up pump with 750mm lift fitted as standard



FXDQ-PB/FXDQ-NB									
Indoor Units			20PB	25PB	32PB	40NB	50NB	60NB	
Capacity	Cooling	kW	2.20	2.80	3.60	4.50	5.60	7.10	
	Heating	kW	2.50	3.20	4.00	5.00	6.30	8.00	
Power input	Cooling	kW	0.086		0.089	0.160	0.165	0.181	
	Heating	kW	0.067		0.070	0.147	0.152	0.168	
Dimensions	(Height x Width x Depth)	mm	200x700x620			200x900x620		200x1,100x620	
Weight		kg	23.0			27.0	28.0	31.0	
Air Flow Rate	Cooling	HH/H/L	8.0 / 7.2 / 6.4			10.5 / 9.5 / 8.5	12.5 / 11.0 / 10.0	16.50 / 14.5 / 13.00	
External Static Pressure	High/Standard	Pa	30 / 10			44 / 15			
Sound Pressure	Cooling	HH/H/L	33.0 / 31.0 / 29.0			34.0 / 32.0 / 30.0	35.0 / 33.0 / 31.0	36.0 / 34.0 / 32.0	
Refrigerant			R-410A						
Power Supply			1~/220-240V/50Hz						
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm	6.4 / 12.7 / 26.0					9.5 / 15.9 / 26.0	



# FXSQ-P Concealed Ceiling Unit



BRC1E51



BRC1D52



BRC4C65



FXSQ20,25,32P

- Reduction of power consumption of 20% (compared to FXSQ-M8 series) through use of new DC fan
- Improved comfort thanks to 3-step airflow control
- External static pressure up to 120 Pa facilitates the use with flexible ducts of varying lengths: ideal for shops and medium size offices
- Possibility to change ESP through wired remote control allows optimisation of the supply air volume
- Allows multi tenant applications (option PCB required)
- Easy installation thanks to automatic air flow adjustment towards nominal air flow rate
- Drain-up pump with 624mm lift fitted as standard

### How does it work?

- Installer calculates the total duct resistance to determine the required ESP
- During test run, the unit will automatically select the correct fan curve (more than 8 fan curves available) guaranteeing the nominal AFR
- Thanks to the high number of fan curves available, adjustments to duct work can be avoided, resulting in a quicker installation process.

### Reduced installation time

- After installation, it is possible that the actual duct resistance is lower than expected at the time of designing. As a consequence the air flow will be too high. With the automatic air flow adjustment function the unit can adapt its fan speed to a lower curve, so the air flow decreases
- The air flow will always be within 10% of the rated air flow because of the amount of possible fan curves (more than 8 fan curves available per model)
- Alternatively the installer can manually select a fan curve with the wired remote control.

FXSQ-P7V3B			20	25	32	40	50	63	80	100	125	140								
<b>Indoor Units</b>																				
Capacity	Cooling	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00								
	Heating	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00								
Power input	Cooling	kW	0.073		0.079	0.192	0.192	0.142	0.163	0.247	0.303	0.261								
	Heating	kW	0.073		0.079	0.192	0.192	0.142	0.163	0.247	0.303	0.249								
Dimensions	(Height x Width x Depth)		300x550x700			300x700x700		300x1000x700		300x1400x700										
Weight			23			26		35		46										
Air Flow Rate	Cooling	High/Low	m³/min		9.00 / 6.50	9.50 / 7.00	16.00 / 11.00		13.50 / 16.00		25.00 / 20.00		32.00 / 23.00		39.00 / 28.00		46.00 / 32.00			
	Heating	High/Low	m³/min		9.00 / 6.50	9.50 / 7.00	16.00 / 11.00		13.50 / 16.00		25.00 / 20.00		32.00 / 23.00		39.00 / 28.00		46.00 / 32.00			
External Static Pressure	High / Standard		Pa		70 / 30		100 / 30		100 / 40		120 / 40		120 / 50		140 / 50					
Sound power (nominal)	Cooling		dBA		55.0		56.0		63.0		59.0		63.0		61.0		66.0		67.00	
Sound Pressure	Cooling	High/Low	dBA		32.0 / 26.0		33.0 / 27.0		37.0 / 29.0		37.0 / 30.0		38.0 / 32.0		40.0 / 33.0		42.00 / 34.00			
	Heating	High/Low	dBA		32.0 / 26.0		33.0 / 27.0		37.0 / 29.0		37.0 / 30.0		38.0 / 32.0		40.0 / 33.0		42.00 / 34.00			
Refrigerant			R-410A																	
Power Supply			1~/220-240V/50Hz																	
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm	6.35 / 12.7 / 32						9.5 / 15.9 / 32											
Decoration Panel	Model		BYBS32DJW1			BYBS45DJW1		BYBS71DJW1		BYBS125DJW1										
	Colour		White (10Y9/0.5)																	
	HeightxWidthxDepth	mm	55x650x500			55x800x500		55x1100x500		55x1500x500										
Weight	kg	3			3.5		4.5		6.5											



# FXMQ-P7

## Concealed Ceiling Unit (Inverter Fan)



BRC1E51



BRC1D52



BRC4C65



FXMQ40P

- Reduction of power consumption through use of new DC fan motor technology
- Improved comfort thanks to 3-step airflow control
- Compact height of 300mm, allows installation in narrow ceiling voids
- Up to 200 Pa external static pressure allows extensive ductwork runs and flexible application
- Possibility to change ESP through wired remote control allows optimisation of the supply air volume (changeable in 13 or 14 stages)
- Built-in drain pump with 700mm lift fitted as standard
- Allows multi tenant applications (option PCB required)
- The air suction direction can be from bottom or rear
- Standard air filter

FXMQ-P7									
Indoor Units				40	50	63	80	100	125
Capacity	Cooling	kW		4.50	5.60	7.10	9.00	11.20	14.00
	Heating	kW		5.00	6.30	8.00	10.00	12.50	16.00
Power input (Nominal)	Cooling	kW		0.194	0.215	0.23	0.298	0.376	0.461
	Heating	kW		0.182	0.203	0.218	0.286	0.364	0.449
Dimensions	(Height x Width x Depth)		mm	300x700x700			300x1000x700		300x1400x700
Weight			kg	28	36			46	
Air Flow Rate	Cooling	HH/H/L	m³/min	16.0 / 13.0 / 11.0	18.0 / 16.5 / 15.0	19.5 / 17.5 / 16.0	25.0 / 22.5 / 20.0	32.0 / 27.0 / 23.0	39.0 / 33.0 / 28.0
External Static Pressure	H/S/L	Pa		160 / 100 / 30				200 / 100 / 50	
Refrigerant				R-410A					
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm		6.4 / 12.7 / 32			9.5 / 15.9 / 32		



# FXMQ-MA

## Concealed Ceiling Unit (Large)



BRC1E51



BRC1D52



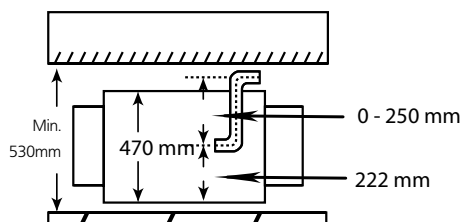
BRC4C62



FXMQ-MA

- Range of models 200-250 class
- Up to 270 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Optional drain pump (accessory): housing the drain pump inside the unit has reduced the required installation space
- Optional suction air filter plenums and filters

### Optional drain pump accessory



FXMQ-MA				
Indoor Units			200	250
Capacity	Cooling	kw	22.40	28.00
	Heating	kw	25.00	31.50
Power input (Nominal)	Cooling	kw	1.294	1.465
	Heating	kw	1.294	1.465
Dimensions	(Height x Width x Depth)	mm	470x1,380x1100	
Weight		kg	137	
Air Flow Rate	Cooling	High/Low	m <sup>3</sup> /min	58.00 / 50.00
External Static Pressure	High / Standard	Pa	221 / 132	270 / 147
Sound Pressure	Cooling	High/Low	dBA	48.0 / 45.0
Refrigerant			R-410A	
Power Supply			1~/220-240V/50Hz	
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm	9.5 / 19.1 / PS1B	9.5 / 22.2 / PS1B



**INVERTER**

# FXAQ-P

## Wall Mounted Unit



BRC1E51



BRC1D52

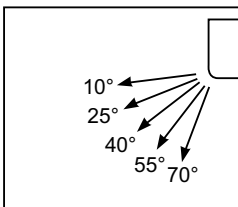


BRC7E618



FXAQ40-63P

- Modern style flat front panel
- Vertical auto-swing function moves the discharge flaps up and down for efficient air distribution throughout the room
- 5 different discharge angles can be programmed via the remote control



- Both horizontal flaps and front panel can easily be removed and washed
- All maintenance operations can be carried out from the front of the unit
- Ideal for refurbishment projects
- Allows multi tenant applications (option PCB required)

FXAQ-P				20	25	32	40	50	63
<b>Indoor Units</b>									
Capacity	Cooling	Nominal	kW	2.20	2.80	3.60	4.50	5.60	7.10
	Heating	Nominal	kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input (50Hz)	Cooling	Nominal	kW	0.019	0.028	0.030	0.020	0.033	0.050
	Heating	Nominal	kW	0.029	0.034	0.035	0.020	0.039	0.060
Dimensions	(Height x Width x Depth)		mm	290x795x238			290x1,050x238		
Weight			kg	11			14		
Air Flow Rate	Cooling	HH/H/M/L	m³/min	- / 7.5 / - / 4.5	- / 8 / - / 5	- / 8.5 / - / 5.5	- / 12 / - / 9	- / 15 / - / 12	- / 19 / - / 14
Refrigerant				R-410A					
Sound Power	Cooling	Nominal	dBA	-					
Sound Pressure	Cooling	HH/H/M/L	dBA	- / 35 / - / 29	- / 36 / - / 29	- / 37 / - / 29	- / 39 / - / 34	- / 42 / - / 36	- / 46 / - / 39
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain		mm	6.35 / 12.7 / VP13 (I.D. 13/O.D. 18)					9.52/15.9/VP13 (I.D. 13/O.D. 18)
Casing colour				White (3.0Y8.5 / 0.5)					



# FXHQ-MA

## Ceiling Suspended Unit



BRC1E51



BRC1D52

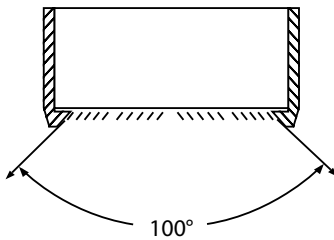


BRC7E63



FXHQ32MA

- Air flow distribution for ceiling heights up to 3.8m without loss of capacity
- Use of W-shaped Coanda flap enhances horizontal and vertical air circulation characteristics
- Wider air discharge thanks to Coanda effect: up to 100 degrees



- Easy installation and maintenance
- Long life filter fitted as standard

FXHQ-MA						
Indoor Units				32	63	100
Capacity	Cooling	kw	3.60	7.10	11.20	
	Heating	kw	4.00	8.00	12.50	
Power input	Cooling	kw	0.111	0.115	0.135	
	Heating	kw	0.111	0.115	0.135	
Dimensions	(Height x Width x Depth)		mm	195x1,160x680	195x1,400x680	
Weight			kg	24	33	
Air Flow Rate	Cooling	High/Low	m <sup>3</sup> /min	12.00 / 10.00	17.50 / 14.00	25.00 / 19.50
Sound Pressure	Cooling	High/Low	dBA	36.0 / 31.0	39.0 / 34.0	45.0 / 37.0
Refrigerant				R-410A		
Power Supply				1~/220-240V/50Hz		
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm		6.4 / 12.7 / 26	9.5 / 15.9 / 26	





# FXUQ-MA

## 4-Way Blow Ceiling Suspended Cassette



BRC1E51



BRC1D52

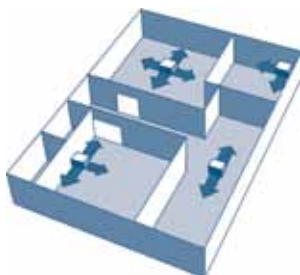


BRC7C528



FXUQ71MA

- Group control with other VRV indoor units possible
- 5m maximum distance between FXUQ unit and junction box
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners



- Auto-swing function ensures efficient air and temperature distribution.
- Air flow distribution for ceiling heights up to 3.5m without loss of capacity.
- Air can be discharged at 5 different angles between 0 and 60 degrees
- Air filter, drain pan and heat exchanger fin are mildew proof and anti-bacterial treated
- Drain up pump with 500mm lift fitted as standard

FXUQ-MA						
Indoor Units			71	100	125	
Capacity	Cooling	kw	8.0	11.2	14.0	
	Heating	kw	9.0	12.5	14.0	
Power input	Cooling	kw	0.180	0.289		
	Heating	kw	0.160	0.269		
Dimensions	(Height x Width x Depth)		165x895x895		230x895x895	
Weight			25	31		
Air Flow Rate	Cooling	High/Low	m³/min	19.00 / 14.00	29.00 / 21.00	32.00 / 23.00
	Heating	High/Low	m³/min	19.00 / 14.00	29.00 / 21.00	32.00 / 23.00
Sound power (nominal)	Cooling		dBA	56.0	59.0	60.0
Sound Pressure	Cooling	High/Low	dBA	40.0 / 35.0	43.0 / 38.0	44.0 / 39.0
	Heating	High/Low	dBA	40.0 / 35.0	43.0 / 38.0	44.0 / 39.0
Refrigerant			R-410A			
Power Supply			1~/220-240V/50Hz			
Piping connections	Liquid (OD)/Gas/Drain (OD)	mm	9.5 / 15.9 / 26			
Combination with junction box			BEVQ71MA	BEVQ100MA	BEVQ125MA	

BEVQ-MA			71	100	125
Dimensions	HxWxD	mm	100x350x225		
Weight		kg	3.0	3.0	3.5
Casing			Galvanised steel plate		
Power supply	VE		1~, 50Hz, 220-240V		



# FXNQ-MA

## Concealed Floor Standing Unit



BRC1E51



BRC1D52

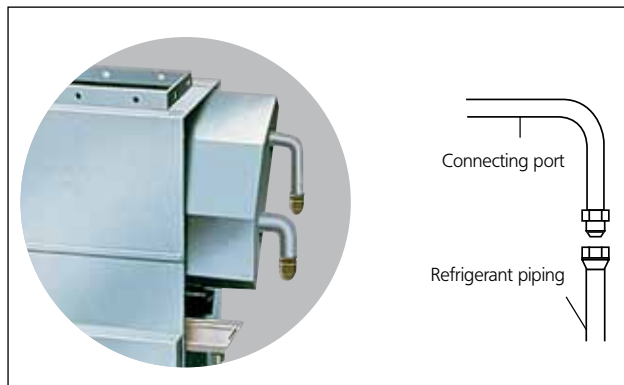


BRC4C62



FXNQ20,25MA

- Ideal for installation beneath a window
- Long life filter fitted as standard
- Requires very little installation space, only 220mm depth
- The connecting port faces downward, eliminating the need to attach auxiliary piping



FXNQ-MA				20	25	32	40	50	63	
<b>Indoor Units</b>										
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10	
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00	
Power input	Cooling		kw	0.049		0.090		0.110		
	Heating		kw	0.049		0.090		0.110		
Dimensions	(Height x Width x Depth)		mm	610x930x220		610x1,070x220		610x1,350x220		
Weight			kg	19		23		27		
Air Flow Rate	Cooling	High/Low	m <sup>3</sup> /min	7.00 / 6.00		8.00 / 6.00		14.00 / 11.00		16.00 / 12.00
Sound Pressure	Cooling	High/Low	dBA	35.0 / 32.0		38.0 / 33.0		39.0 / 34.0		40.0 / 35.0
Refrigerant				R-410A						
Power Supply				1~/220-240V/50Hz						
Piping connections	Liquid (OD)/Gas/Drain (OD)		mm	6.4 / 12.7 / 21				9.5 / 15.9 / 21		





**INVERTER**

# FXLQ-P

## Floor Standing Unit



BRC1E51



BRC1D52

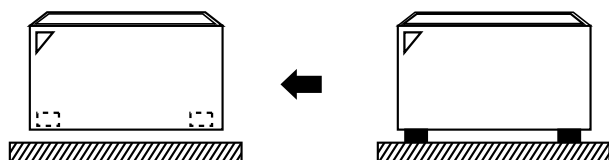


BRC7C62



FXLQ20-25P

- New stylish modern casing: finished in RAL 9010 colour
- Unit can be installed as free standing model by use of optional back plate
- Ideal for installation beneath a window
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- Home leave operation saves energy during absence
- Requires very little installation space
- Running the pipes from connections at the back, enables the unit to be wall mounted which in turn allows cleaning beneath the unit where dust tends to accumulate



- Wired remote control can easily be integrated in the unit

FXLQ-P				20	25	32	40	50	63
<b>Indoor Units</b>									
Capacity	Cooling	Nominal	kW	2.20	2.80	3.60	4.50	5.60	7.10
	Heating	Nominal	kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input (50Hz)	Cooling	Nominal	kW	0.049		0.090		0.110	
	Heating	Nominal	kW	0.049		0.090		0.110	
Dimensions	(Height x Width x Depth)		mm	600x1,000x232		600x1,140x232		600x1,420x232	
Weight			kg	27		32		38	
Air Flow Rate	Cooling	HH/H/M/L	m³/min	- / 7 / - / 6		- / 8 / - / 6		- / 11 / - / 8.5	
Refrigerant				R-410A					
Sound Power	Cooling	Nominal	dBA	-					
Sound Pressure	Cooling	HH/H/M/L	dBA	- / 35 / - / 32		- / 38 / - / 33		- / 39 / - / 34	
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain	mm		6.35 / 12.7 / 21					9.52 / 15.9 / 21
Casing colour				Pure white (RAL9010) + Iron gray (RAL7011)					

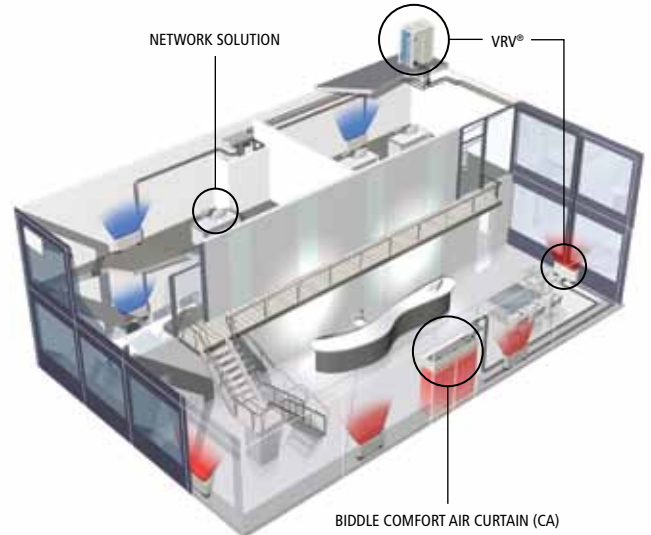


CAVM150DK80FSC

# CAVS/M/L/XL- DK-F/C/R

## Biddle Comfort Air Curtain

- Connectable to VRV® heat recovery and heat pump
- VRV® is among the first DX systems suitable for connection to air curtains
- A payback period of less than 1.5 years compared to installing an electric air curtain
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode<sup>1</sup>
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- All year round comfort ensured by the constant discharge velocity and adjustable jet airflow width (European patent)
- 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



BIDDLE COMFORT AIR CURTAIN (CA)

			Small				Medium					
Indoor Units			CAVS100DK80*BC*SC	CAVS150DK80*BC*SC	CAVS200DK100*BC*SC	CAVS250DK140*BC*SC	CAVM100DK80*BC*SC	CAVM150DK80*BC*SC	CAVM200DK100*BC*SC	CAVM250DK140*BC*SC		
Heating capacity <sup>2</sup>			kW	6.0	7.5	9.7	13.3	7.7	9.4	12.1	16.8	
Delta T <sup>2</sup>	Inlet = room temperature		K	20	17	16	18					
Power input (50Hz)	Fan only/Heating		kW	0.20	0.30	0.40	0.50	0.28	0.42	0.56	0.70	
Maximum door width			m	1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5	
Maximum door height			Favorable/Normal/Unfavorable conditions				m					
			2.4 / 2.2 / -				2.8 / 2.5 / 2.2					
Dimensions			Height		Unit F/C/R		mm					
			Width		Unit F/C/R		mm					
			Depth		Unit F/C/R		mm					
Weight			Unit F/C/R		kg							
Casing			Colour		BC:RAL9010 / SC:RAL 9006							
Fan - Air flow rate - Heating <sup>2</sup>			m <sup>3</sup> /h		880	1,310	1,750	2,190	1,230	1,840	2,450	3,060
Refrigerant			Type		R-410A							
Sound Pressure - Heating <sup>2</sup>			dBA		42	44	45	46	45	47	48	49
Piping connections			Liquid (OD)/Gas		mm							
Power Supply			1~/230V/50Hz									

			Large				XLarge					
Indoor Units			CAVL100DK125*BC*SC	CAVL150DK200*BC*SC	CAVL200DK250*BC*SC	CAVL250DK250*BC*SC	CAVXL100DK125*BC*SC	CAVXL150DK200*BC*SC	CAVXL200DK250*BC*SC	CAVXL250DK250*BC*SC		
Heating capacity <sup>2</sup>			kW	12.5	18.8	24.0	25.8	14.7	22.0	27.8	29.6	
Delta T <sup>2</sup>	Inlet = room temperature		K	17				15				
Power input (50Hz)	Fan only/Heating		kW	0.75	1.13	1.50	1.88	1.40	2.10	2.80	3.50	
Maximum door width			m	1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5	
Maximum door height			Favorable/Normal/Unfavorable conditions				m					
			3.3 / 3.0 / 2.5				3.8 / 3.5 / 3.5					
Dimensions			Height		Unit F/C/R		mm					
			Width		Unit F/C/R		mm					
			Depth		Unit F/C/R		mm					
Weight			Unit F/C/R		kg							
Casing			Colour		BC:RAL9010 / SC:RAL 9006							
Fan - Air flow rate - Heating <sup>2</sup>			m <sup>3</sup> /h		1,730	2,600	3,470	4,340	2,800	4,190	5,590	6,990
Refrigerant			Type		R-410A							
Sound Pressure - Heating <sup>2</sup>			dBA		51	53	54	55	56	58	59	60
Piping connections			Liquid (OD)/Gas		mm							
Power Supply			1~/230V/50Hz									

<sup>1</sup> in case of connection to a VRV® heat recovery outdoor unit

<sup>2</sup> values measured at speed 4, installation level B

F: Freehanging model, C: Cassette model, R: Recessed model



# HOT WATER MODULE

## For VRV® Heat Recovery

Ideally positioned for the Commercial office sector Daikin UK now offers an energy efficient domestic hot water and heating solution for w.c. facilities, kitchens and staff break out areas.

### Hot Water Module

The VRV heat recovery system operates with the VRV heat recovery system to provide an energy efficient means of producing hot water from recovered or recycled heat.

To date, the primary operation of the VRV heat recovery system has been to extract heat from areas being cooled and re-distribute to parts of the building with a heating requirement, often as a result of building orientation and diversity. However, if more heat is extracted than can be effectively re-used this surplus heat is generally dissipated to the atmosphere at the VRV outdoor unit and subsequently the recovered energy is wasted and the system is not operating at its peak efficiency.

### Using the surplus heat

By using the hot water module with VRV heat recovery the surplus heat can be effectively used as renewable heat for the generation and storage of domestic hot water as well as for heating, via under floor circuits, fan coil units, and low temperature radiators. In combination the hot water module and the VRV heat recovery system means that less energy is wasted and the overall system efficiency is greatly improved, reducing running costs and reducing carbon emissions.

### Controls

Hot water controls and user interface are located within the module and enable control of hot water and/or heating according to user requirements and to maximize re-use of recovered heat from other parts of the building during and outside or normal operational hours.

INDOOR UNIT (HYDRO BOX)			UK.EKHBH80AA/VRV		UK.EKHBH140AB/VRV	
Function			Heating only & Optional Hot water			
Heating Capacity	kW		8		16	
Capacity Index Limit			80		140	
Dimensions	HxWxD	mm	922x502x361			
Leaving Water	heating	°C	35-50			
Drain valve			Yes			
Material			Epoxy polyester painted galvanized steel			
Colour			RAL 9010 (neutral white)			
Factory Mounted Electric Heater (*note 1)			3kW 1 step			
Hydrobox Control Power Supply (*note 1)			230V Single Phase (5A)			
Back Up Heater Power Supply (*note 1)			230V Single Phase (20A) - Only Required for Heating operation			
Tank Booster Heater Power Supply			230V Single Phase (20A) - Only Required with Hot Water Option			
Mandatory Accessory			EKEXV80		EKEXV140	

DOMESTIC HOT WATER TANK			EKHWS150B3V3	EKHWS200B3V3	EKHWS300B3V3	EKHWSU150B3V3	EKHWSU200B3V3	EKHWSU300B3V3
Suitable for			Open Vent Systems			Unvented Systems (EKUHWB Kit also required - see below)		
Water Volume	l		150	200	300	150	200	300
Max Water Temperature	°C		85					
Booster Heater Capacity	kW		3					
Power Supply	ph/V/Hz		1/230/50					
Height	mm		900	1150	1600	1015	1265	1715
Diameter	mm		580					
Empty Weight	kg		37	45	59	38	46	60
Colour			Neutral White					
Material Inside Tank			Stainless Steel (DIN 1.452 1)					
Material Outside Casing			Epoxy-Coated Mild Steel					
Piping Connections (Diameter)	Water inlet H/E	inch	3/4"					
	Water outlet H/E	inch	3/4"					
	Cold Water in	inch	3/4"					
	Hot water out	inch	3/4"					

ACCESSORY KIT FOR UNVENTED SYSTEMS		Domestic Hot Water Tank EKHWSU-B3V3
EKUHWB	Includes: Combined Pressure Reducing Valve, Non Return Valve, Strainer, Expansion Relief Valve, Expansion Vessel, Tundish	•

\*note 1 - Use Power Supply from same phase for Hydrobox Control Power, Back Up Heater and Tank Booster Heater

