

Meet our superhero: VRV 5 Heat Recovery



Purpose-built to support the decarbonisation
of commercial buildings



Lower CO₂
equivalents



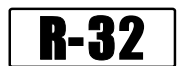
Industry-leading
real life efficiencies



Flexibility to take care
of every room




Variable Refrigerant
Temperature




BLUEEVOLUTION

VRV 5 outdoor unit overview

Model	Product name	Capacity class (kW)												VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	HRV units EKVDX	AHU connection	Air curtains	Remarks
		8	10	12	14	16	18	20	22	24	26	28									
<p>Air-cooled heat recovery</p> <p>NEW & UNIQUE VRV 5 heat recovery</p> <ul style="list-style-type: none"> Reduced CO₂ equivalent thanks to the use of lower GWP refrigerant R-32 Top sustainability over the entire lifecycle 'Free' heating through heat recovery Tackle small room applications thanks to Shirudo Technology The perfect personal comfort thanks to simultaneous cooling and heating 		●	●	●	●	●	●	●	●	●	●	○									
		Cooling Capacity	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.4	73.5	78.5								
		Heating Capacity	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0	82.5	87.5								

● Single unit, ● Multi combination










Branch selector (BS box) overview

Model	Product name	Capacity class				
		4	6	8	10	12
<p>Multi port BS box</p> <ul style="list-style-type: none"> Unique range of Branch Selector boxes integrating Shirudo Technology 		●	●	●	●	●



VRV 5 outdoor units have the highest capacity on the market – up to 90kW

VRV 5 indoor unit overview

Type	Model	Product name	10	15	20	25	32	40	50	63	71	80	100	125	140	200	250	
Ceiling mounted cassette	<p>UNIQUE Round flow cassette</p> <p>360° air discharge for optimum efficiency and comfort</p> <ul style="list-style-type: none"> Auto cleaning function ensures high efficiency Intelligent sensors save energy and maximize comfort Flexibility to suit every room layout Lowest installation height in the market! Widest choice ever in decoration panel designs and colors 	 			●	●	●	●	●	●	●	●	●					
	<p>UNIQUE Fully flat cassette</p> <p>Unique design that integrates fully flat into the ceiling</p> <ul style="list-style-type: none"> 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 				●	●	●	●	●	●	●	●	●	●				
Concealed ceiling	<p>Slim concealed ceiling unit</p> <p>Slim design for flexible installation</p> <ul style="list-style-type: none"> 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 		●	●	●	●	●	●	●	●	●	●	●	●				
	<p>Concealed ceiling unit with medium ESP</p> <p>Slimmest yet most powerful medium static pressure unit on the market!</p> <ul style="list-style-type: none"> 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 		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<p>NEW Concealed ceiling unit with high ESP</p> <p>ESP up to 270 Pa, ideal for extra large sized spaces</p> <ul style="list-style-type: none"> Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment Large capacity unit: up to 31.5 kW heating capacity 																●	●
Wall mounted unit	<p>Wall mounted unit</p> <p>For rooms with no false ceilings nor free floor space</p> <ul style="list-style-type: none"> 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 		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling suspended	<p>NEW Ceiling suspended unit</p> <p>For wide rooms with no false ceilings nor free floor space</p> <ul style="list-style-type: none"> 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 						●	●	●	●	●	●	●	●	●	●	●	
	<p>NEW & UNIQUE 4-way blow ceiling suspended unit</p> <p>Unique Daikin unit for high rooms with no false ceilings nor free floor space</p> <ul style="list-style-type: none"> 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 																●	●
Cooling capacity (kW)⁽¹⁾			1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0	
Heating capacity (kW)⁽²⁾			1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5	

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m
 (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

VRV 5 has the widest range of indoor units specifically designed for R-32 on the market

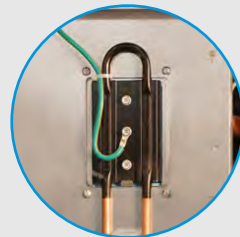


Next generation **VRV**



7-segment display for quick and accurate error diagnostics

- › Outdoor unit display for quick on-site settings and easy read out of errors
- › Indication of service parameters for checking basic functions



Refrigerant-cooled PCB

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



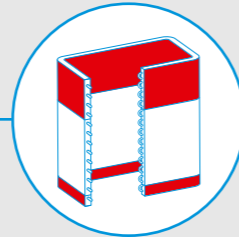
Unmatched piping flexibility

- › Longest length up to 165m
- › Total length 1,000m



Asymmetric fan design

- › High ESP up to 78Pa to allow ducting
- › Low sound levels down to 40 dB(A)



4-sided, 3-row heat exchanger

- › Thanks to the large surface of the heat exchanger (up to 235m²) VRV units are compact, light and highly efficient



New inverter compressor

- › Specifically developed for R-32 refrigerant
- › Back pressure control increasing efficiency in low load operation

Advantages of 3-pipe technology

“Free” heat production

An integrated heat recovery system reuses heat from offices and server rooms to warm other areas.

Maximum comfort

A VRV heat recovery system allows simultaneous cooling and heating.

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

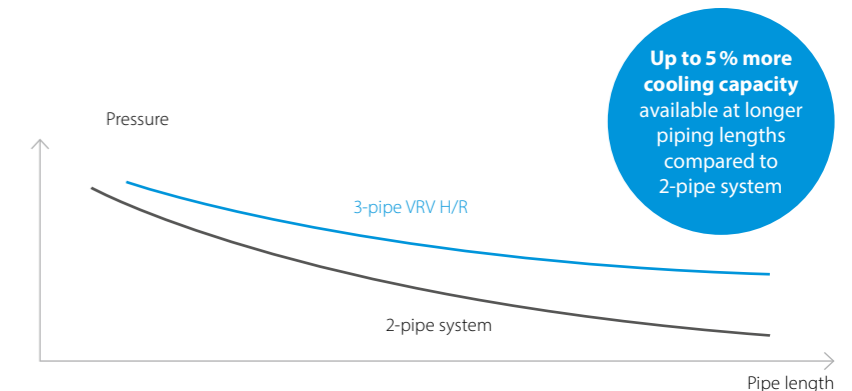
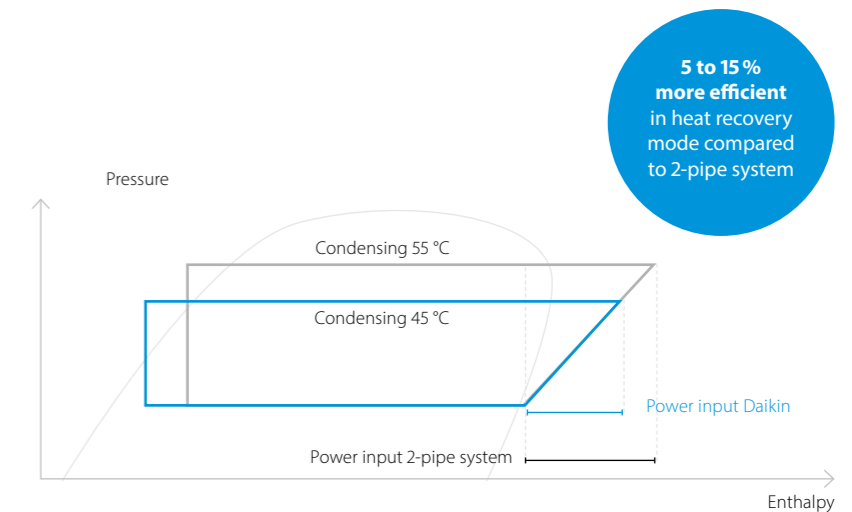
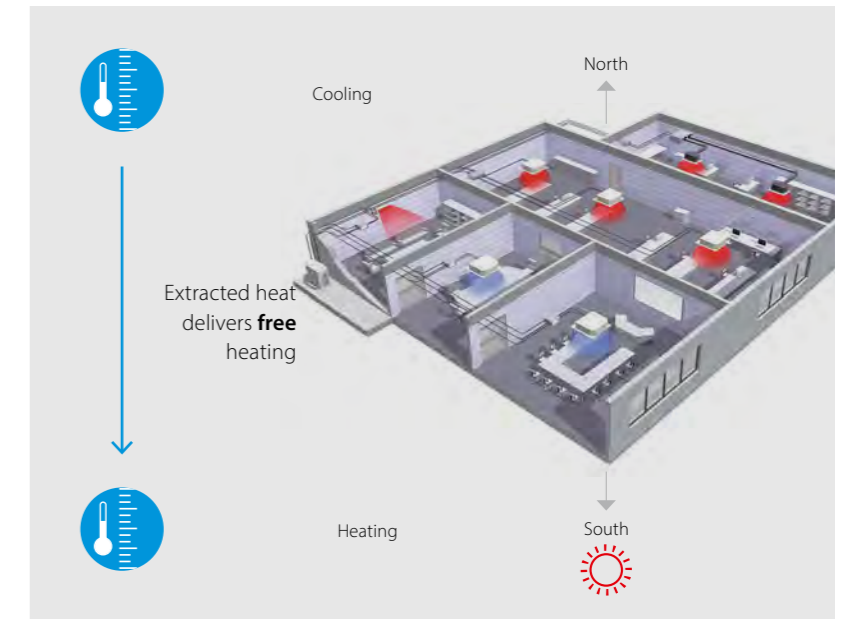
More “free” heat

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

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

Lower pressure drop means more efficiency

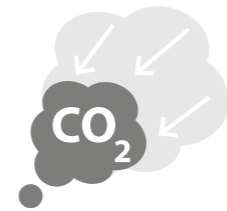
- › Smooth refrigerant flow in 3-pipe system thanks to 2 smaller gas pipes results in higher energy efficiency
- › Disturbed refrigerant flow in large gas pipe on 2-pipe system results in larger pressure drop



VRV 5 Heat Recovery

Purpose-built to support the decarbonisation of commercial buildings

- › Reduced CO₂ equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- › Single component refrigerant, easy to re-use and recycle
- › Greatest sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- › “Free” heating through efficient 3-pipe heat recovery, transferring heat from areas requiring cooling to areas requiring heating
- › Tackle small room applications without any additional measures, thanks to Shirudo Technology
- › Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- › Simultaneous cooling and heating for the perfect personal comfort of guests/tenants
- › Like for like R-410A installation flexibility with piping lengths up to 165 meters and a total length of 1,000 meters
- › Sound pressure down to 40 dB(A) thanks to 5 low sound steps
- › ESP up to 78 Pa to allow ducting
- › Wide operation range of up to +46°C in cooling and down to -20°C in heating



Lower CO₂ equivalents



5 low sound steps



More details and final information can be found by scanning or clicking the QR codes.

Outdoor unit		REYA	8A	10A	12A	14A	16A	18A	20A	
Capacity range	HP		8	10	12	14	16	18	20	
Cooling capacity	Prated,c	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	
Heating capacity	Prated,h	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	
	Max. 6°CWB	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	
Recommended combination			4 x FXFA50A2VEB	4 x FXFA63A2VEB	6 x FXFA50A2VEB	1 x FXFA50A2VEB + 5 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	3 x FXFA50A2VEB + 5 x FXFA63A2VEB	2 x FXFA50A2VEB + 6 x FXFA63A2VEB	
η _{s,c}	%		290.8	282.6	285.3	306.1	281.0	280.6	262.2	
η _{s,h}	%		161.5	170.2	176.4	168.3	167.5	172.5	162.7	
SEER			7.35	7.14	7.21	7.73	7.10	7.09	6.63	
SCOP			4.11	4.33	4.49	4.28	4.26	4.39	4.14	
Maximum number of connectable indoor units			64							
Indoor index connection	Min.		100	125	150	175	200	225	250	
	Max.		260	325	390	455	520	585	650	
Dimensions	Unit	HeightxWidthxDepth	1,685 x 930 x 765			1,685 x 1,240 x 765				
	Weight	Unit	213		296		319			
Sound power level	Cooling	Nom.	78.3	78.8	82.5	78.7	83.7	83.4	87.9	
	Cooling	Nom.	56.3	58.0	60.8	58.1	61.4	63.0	67.0	
Operation range	Cooling	Min.~Max.	-5 ~46							
	Heating	Min.~Max.	-20 ~16							
Refrigerant	Type/GWP		R-32/675.0							
	Charge	kg/TCO ₂ Eq	9.00 / 6.08			10.6 / 7.16				
Piping connections	Liquid	OD	9.52		12.70					
		Gas	19.1		22.2		28.6			
	HP/LP gas	OD	15.90		19.10		22.20			
		Total piping length	System Actual	1,000						
	Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415						
Current - 50Hz	Maximum fuse amps (MFA)	A	20	25	32	40		50		



Completely redesigned BSSV boxes for faster installation and easier servicing



Widest R-32 VRV range in the market

Outdoor unit System		REYA	10A	13A	16A	18A	20A	22A	24A	26A	28A	
System	Outdoor unit module 1		REMA5A		REYA8A		REYA10A	REYA12A	REYA16A	REYA14A	REYA16A	
	Outdoor unit module 2		REMA5A	REYA8A	REYA10A	REYA12A	REYA16A	REYA14A	REYA16A			
Capacity range	HP		10	13	16	18	20	22	24	26	28	
Cooling capacity	Prated,c	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	
	Max. 6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	
Heating capacity	Prated,h	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	
	Max. 6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	
Recommended combination			4 x FXFA63A2VEB	3 x FXFA50A2VEB + 3 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB	10 x FXFA50A2VEB + 4 x FXFA63A2VEB	6 x FXFA50A2VEB + 4 x FXFA63A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB + 2 x FXFA80A2VEB	7 x FXFA50A2VEB + 5 x FXFA63A2VEB	6 x FXFA50A2VEB + 4 x FXFA63A2VEB + 2 x FXFA80A2VEB	
η _{s,c}	%		301.9	296.5	293.0	287.5	287.6	283.6	283.4	296.2	282.8	
η _{s,h}	%		160.6	161.5	170.9	170.5	172.2	173.3	165.2	172.0	171.5	
SEER			7.62	7.49	7.40	7.26	7.27	7.17	7.16	7.48	7.15	
SCOP			4.09	4.11	4.35	4.34	4.38	4.41	4.20	4.38	4.36	
Maximum number of connectable indoor units			64									
Indoor index connection	Min.		125	163	200	225	250	275	300	325	350	
	Max.		325	423	520	585	650	715	780	845	910	
Piping connections	Liquid	OD	9.52		12.70						15.90	
		Gas	19.1		22.2		28.6					
	HP/LP gas	OD	15.90		19.10		22.20					
		Total piping length	System Actual	500						1,000		
	Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415								
Current - 50Hz	Maximum fuse amps (MFA)	A	40			50			63			

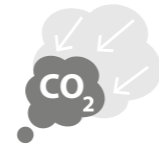
Outdoor unit module		REMA	5A
Dimensions	Unit	1,685 x 930 x 765	
Weight	Unit	213	
Fan	External static pressure	Max.	78
		Pa	
Sound power level	Cooling	Nom.	78.3
Sound pressure level	Cooling	Nom.	56.3
Operation range	Cooling	Min.~Max.	-5 ~46
	Heating	Min.~Max.	-20 ~16
Refrigerant	Type/GWP		R-32/675.0
	Charge	kg/TCO ₂ Eq	9.00 / 6.08
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415
Current - 50Hz	Maximum fuse amps (MFA)	A	20

Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Contains fluorinated greenhouse gases | * EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

Multi branch selector (BSSV) for VRV 5 Heat Recovery

Specifically developed for lower GWP R-32

- › **Reduced CO₂ equivalent** thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- › Unique range of multi BS boxes allowing **efficient 3-pipe** heat recovery
- › No limitation on room size, thanks to **Shirudo Technology** (1)
The integrated shut-off valves in the BSSV box ensure that in case of a refrigerant leak only the specific branch is closed off.



Reduced CO₂ equivalent



Flexibility to take care of every room

- › Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- › **NEW** No limitation on room size, thanks to Shirudo Technology (1)
- › **NEW** Faster installation thanks to Refrigerant Flow Through reducing the number of brazing points and joint kits
- › **NEW** Easy servicing in false ceilings thanks to sliding down PCB
- › **NEW** Limited ceiling void required as the box can be installed at just 5mm from the ceiling
- › **NEW** Quick on-site settings, indication of service parameters and easy read out of errors thanks to 7 segment display
- › Up to 16kW capacity available per port
- › Connect up to 250 class unit (28kW) by combining 2 ports
- › No limit on unused ports allowing phased installation
- › Faster installation thanks to open port connection
- › Allows multi tenant applications
- › Connectable to REYA-A heat recovery units

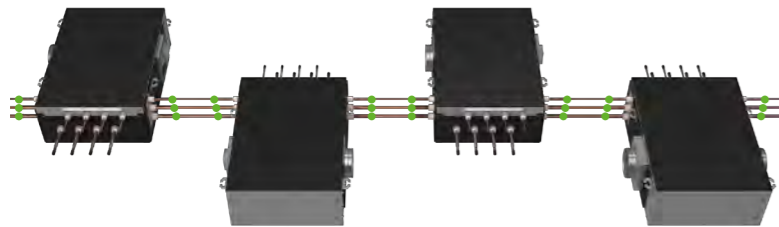


BS6A14AV1B

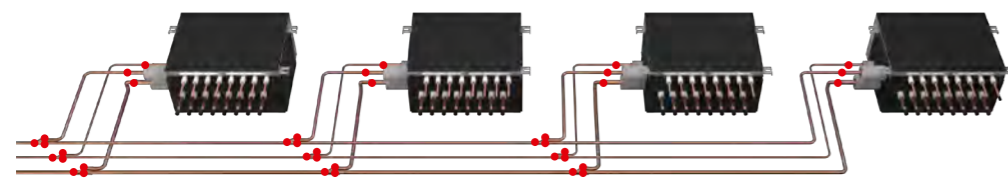
Completely redesigned for faster installation and easier servicing

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

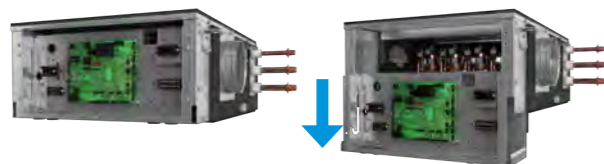
VRV 5: only 24 brazings point and no joint kits



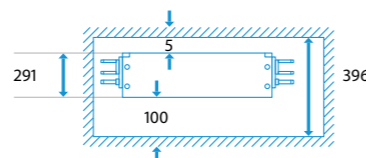
VRV 5: 39 brazing points and 3 joint kits



- › Easy servicing in false ceilings thanks to **sliding down PCB**



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



More details and final information can be found by scanning or clicking the QR codes.



BS-A14AV1B

Branch selector		BS	4A14AV1B	6A14AV1B	8A14AV1B	10A14AV1B	12A14AV1B
Maximum number of connectable indoor units			20	30	40	50	60
Maximum number of connectable indoor units per branch					5		
Number of branches			4	6	8	10	12
Maximum capacity index of connectable indoor units			400	600		750	
Maximum capacity index of connectable indoor units per branch					140 (250 if 2 ports are combined)		
Dimensions	Unit	HeightxWidthxDepth	mm	291x600x845	291x1,000x845		291x1,400x845
Weight	Unit		kg	40	56	65	83
Casing	Material			Galvanised steel plate			
Piping connections	Outdoor unit or Refrigerant Flow Through	Liquid	Type	Brazing connection			
			OD	mm	9.5 (2) / 12.7 (2) / 15.9		
		Gas	Type	Brazing connection			
		OD	mm	15.9 (2) / 19.1(2) / 22.2(2) / 28.6			
	Indoor unit	Liquid	Type	Brazing connection			
			OD	mm	12.7 (2) / 15.9(2) / 19.1(2) / 22.2		
Gas		Type	Brazing connection				
	OD	mm	6.4(3) / 9.5 (4)				
	Drain			VP20 (I.D. 20/O.D. 26)			
BS units connected in Refrigerant Flow Through	Maximum allowed amount of BS units		4				
	Maximum total number of ports of BS units		16				
	Maximum total capacity index of indoor unit		750				
Sound absorbing thermal insulation			Urethane foam, polyethylene foam				
BS box system safety requirements	Dust connection diameter on unit	mm	160.0				
	Dust connection positions		Left/Right				
Power supply	Phase		1~				
	Frequency	Hz	50				
	Voltage	V	220-440				
	Maximum fuse amps (MFA)	A	15				

Contains fluorinated greenhouse gases | (1) Refer to Xpress selection software to ensure compliance to specific product standard. Field supplied duct and fan might be required to install the BS box in very small spaces | (2) Accessory pipe required | (3) When connecting indoor units smaller or equal to 80 class (no need to cut the outlet pipe) | (4) When connecting indoor units larger or equal to 100 class (the outlet pipe needs to be cut) | (5) When connecting indoor units smaller or equal to 32 class (no need to cut the outlet pipe) | (6) When connecting indoor units between 40 & 80 class (the outlet pipe needs to be cut)

Outdoor units

		VRV Heat Recovery	
		REVA8-20A REMA5A	2 module systems
Kits	Heater tape kit – Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	5/8-12: EKBPH012T7A 14-20: EKBPH020T7A	
	Multi-module connection kit (obligatory) – Connects multiple modules into a single refrigerant system		BHFQ23P907A

BSSV Boxes

	VRV Heat Recovery	
	BS-A14AV1B	
EKBSDCk – Duct connection: To connect extraction of BSSV boxes in serial		•
EKBSJK – Joint kit for branch selector (BS) boxes: To couple 2 BS box branches to connect larger capacity indoor units		•
K-KDU303KVE – Drain pump kit		•

		Ceiling mounted cassette units		Concealed ceiling units (duct units)			Ceiling suspended units		Wall mounted units
		Round flow (800x800)	4-way (600x600)	Slim	Medium ESP	High ESP	1-way blow	4-way blow	
		FXFA-A	FXZA-A	FXDA-A	FXSA-A	FXMA-A	FXHA-A	FXUA-A	FXAA-A
Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	R-32 model: BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)						
	Panel spacer for reducing required installation height		KDBQ44B60 (Standard panel)						
	Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)					KDBHP49B140 + KDBTP49B140	
Individual control systems	Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	R-32 models: BRYQ60A3W (white) BRYQ60A3S (grey)					BRE49B2F	
	Infrared remote control (incl. receiver)	BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA630
	BRP069C51 – Onecta app Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)
Centralised control systems	DCC601A51 – intelligent Tablet Controller	•	•	•	•	•	•	•	•
	DCS601C51 (I2) – intelligent Touch Controller	•	•	•	•	•	•	•	•
	DCS302C51 (I2) – Central remote controller DCS301B51 (I2) (I3) – Unified ON/OFF controller	• •	• •	• •	• •	• •	• •	• •	• •
Building Management System & Standard protocol interfaces	RTD-NET – Modbus interface for monitoring and control	•	•	•	•	•	•	•	•
	RTD-10 – Modbus interface for infrastructure cooling	•	•	•	•	•	•	•	•
	RTD-20 – Modbus interface for retail	•	•	•	•	•	•	•	•
	RTD-HO – Modbus interface for hotel	•	•	•	•	•	•	•	•
	KLIC-DI – KNX Interface	•	•	•	•	•	•	•	•
	DCM601A51 – intelligent Touch Manager	•	•	•	•	•	•	•	•
	EKM8DXB – Modbus interface	•	•	•	•	•	•	•	•
	DCM010A51 – Daikin PMS interface	•	•	•	•	•	•	•	•
	DMS502A51 – BACnet Interface	•	•	•	•	•	•	•	•
	DMS504B51 – LonWorks Interface	•	•	•	•	•	•	•	•
Filters	Replacement long life filter, non-woven type	KAF5511D160	KAF441C60			200~250: BAFL502A250 (20)	32: KAFP501A56 50~63: KAFP501A80 100: KAFP501A160	KAFP551K160	
	Auto cleaning filter	see decoration panel		15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102					
Wiring and sensors	KRCS – External wired temperature sensor	KRCS01-7B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B
	K.RSS – External wireless temperature sensor	SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	•	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)	KRP1BA58 (2)(7)	ERP02A50 (2)				KRP1BA58		
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRPI1C12 (2)(7)	EKRPI1C14 (2)	ERP02A50 (2)	EKRPI1C14 (2)	EKRPI1C14 (2)		EKRPI1C14 (2)	ERP02A50 (2)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A54-9 (2)	KRP4A52(2)	50~125: KRP4A52 200~250: KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)
	Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A53 (2)	KRP2A51(2)	KRP2A51	KRP2A62		KRP2A61(2)
	Adapter for keypad and/or window contact connection (2)(11)	BRP7A53	BRP7A53 (2)	BRP7A54	BRP7A51	BRP7A51	BRP7A52 (2)	BRP7A53	BRP7A51 (2)
	Adapter for multi-tenant applications (24 VAC PCB power supply interface)			DTA114A61					
	External control adapter for outdoor unit (installation on indoor unit)			DTA104A53	DTA104A61 (2)	DTA104A61 (2)	DTA104A61		DTA104A51(2) / DTA104A61(2)
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98A (7) KRP1BC101	KRP1BB101 KRP1BC101	KRP1BB101	KRP1BC101	KRP1BC101	KRP1D93A/ KRP4B93	KRP1B97	KRP4A93
	Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard	Standard	Standard	Standard	standard	standard	Standard
	Relay PCB for output signal of refrigerant sensor	ERP01A51 (2)	ERP01A50 (2)	ERP01A51 (2)	ERP01A50 (2)	ERP01A50	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)
Others	Drain pump kit	Standard	Standard	Standard	Standard	200~250: BDU510B250VVM	32-50-63: KDU50R63 100: KDU50R160		K-KDU572KVE
	Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60				KDDQ50A140		
	Air discharge adapter for round duct				15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140 200~250: -			
	L-type piping kit						32: KHFP5M35 50~63: KHFP5N63 100: KHFP5N160		

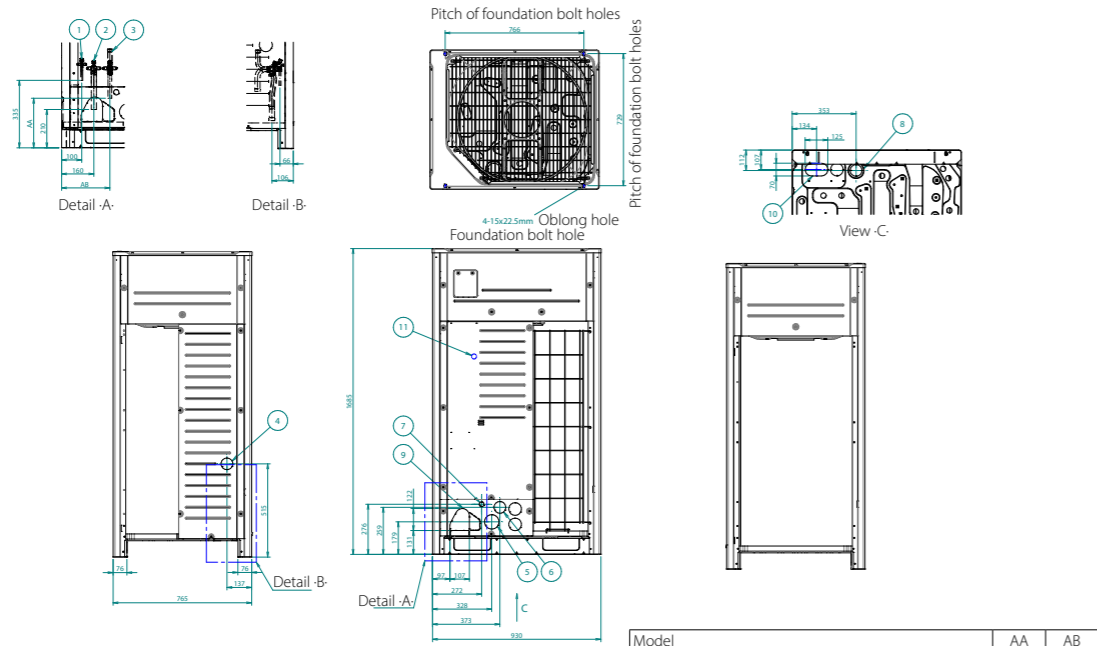
(1) Pump station is necessary for this option
 (2) Installation box is necessary for these adapters
 (3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt*
 (4) Not recommended because of the limitation of the functions

(5) To be able to control the BYCQ140EGF(B) the controller BRCIE or BRCIH* is needed
 (6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units
 (7) Option not available in combination with BYCQ140EGF(B)
 (8) Both parts of the fresh air intake are needed for each unit
 (9) Cannot be combined with sensor kit
 (10) Independently controllable flaps function not available

(11) Only possible in combination with BRCIH* / BRCIE*
 (12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
 (13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
 (14) Wire harness EKEWTSC is necessary
 (15) The active airflow circulation function is not available for this controller.
 (16) Up to 2 adaptor PCBs can be installed per installation box

(17) Only one installation box can be installed per indoor unit
 (18) VRV R-32 indoor units cannot be connected to this controller
 (19) The BYFQ60C4* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
 (20) Wire harness EKRS23 is necessary

REYA8-12A / REMA5A



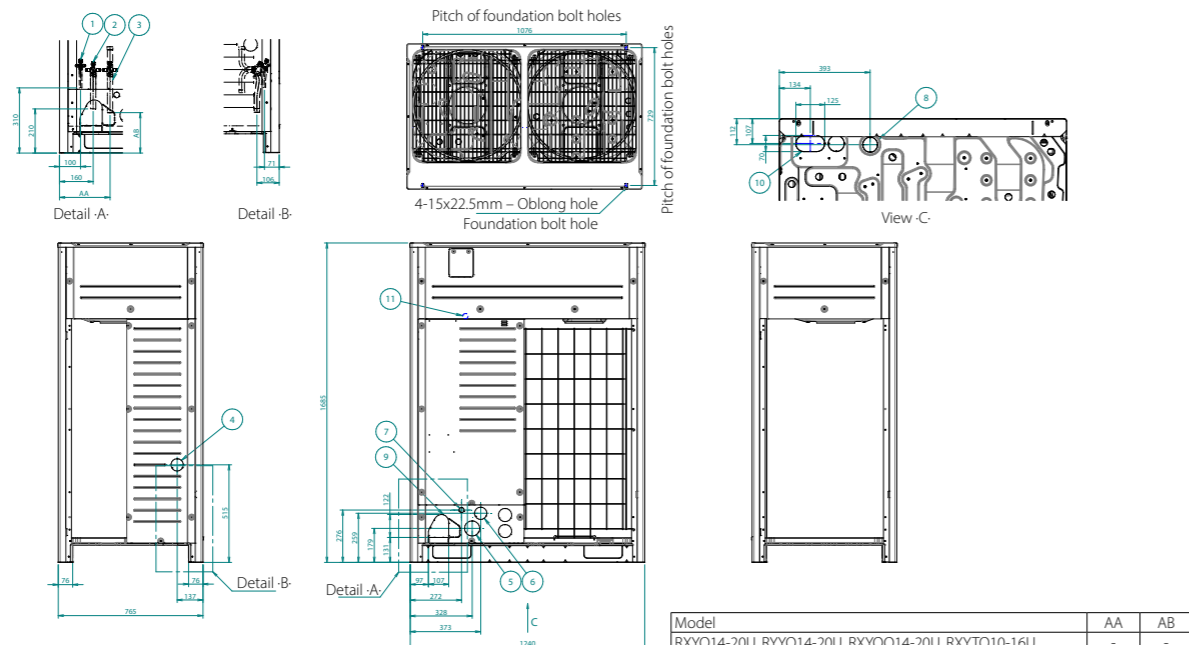
NOTES

- Detail A and detail B indicate the dimensions after fixing the attached piping.
- Items 4 – 10: Knockout hole.
- Gas pipe
 - RYYQ8U, RYM08U, RXYQ8U, RXYQ08U, RXYTQ8U Ø 19.1 brazing connection
 - RYYQ10U, RYM010U, RXYQ10U, RXYQ010U Ø 22.2 brazing connection
 - REM05U, REMA5A, REYQ8-12U, REYA8-12A Ø 25.4 brazing connection
 - RYYQ12U, RYM012U, RXYQ12U, RXYQ012U Ø 28.6 brazing connection
- Liquid pipe
 - RYYQ8-10U, RYM08-10U, RXYQ8-10U, RXYQ08-10U, Ø 9.5 brazing connection
 - REM05U, REMA5A, REYQ8-12U, REYA8-12A, RXYTQ8U Ø 12.7 brazing connection
 - RYYQ12U, RYM012U, RXYQ12U, RXYQ012U Ø 19.1 brazing connection
 - RYM08-10U Ø 22.2 brazing connection
 - RYM012U Ø 22.2 brazing connection
- High pressure/low pressure gas pipe
 - REM05U, REMA5A, REYQ8-12U, REYA8-12A Ø 19.1 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	See note -3.
2	Gas pipe connection port	See note -3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note -3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (M8)

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REYA14-20A



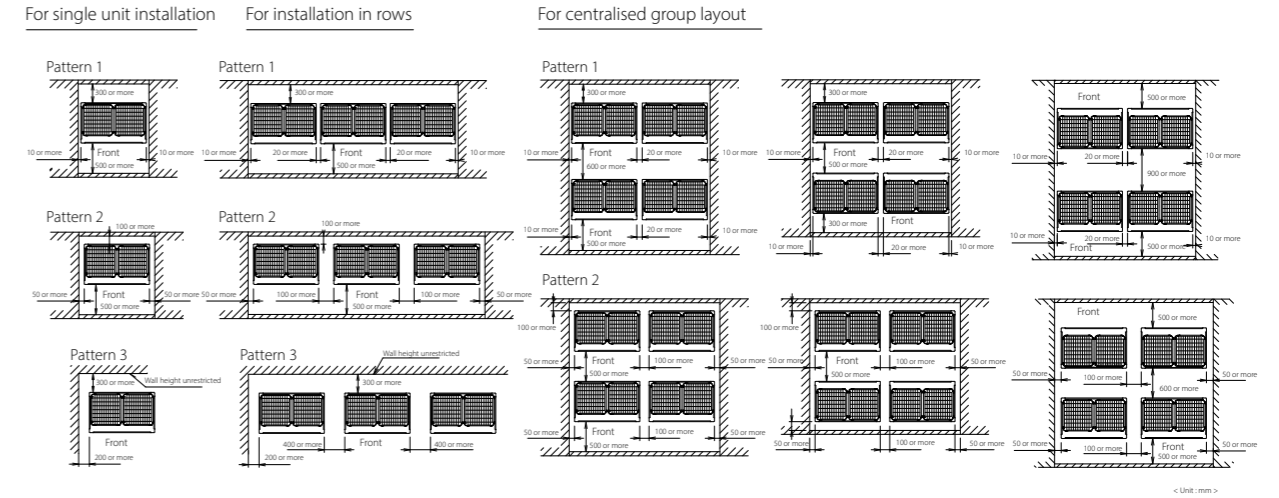
NOTES

- Detail A and detail B indicate the dimensions after fixing the attached piping.
- Items 4 – 10: Knockout hole.
- Gas pipe
 - RXYTQ10U Ø 22.2 brazing connection
 - REYQ14-20U, REYA14-20A Ø 25.4 brazing connection
 - RYYQ14-20U, RYM014-20U, RXYQ14-20U, RXYQ014-20U, RXYTQ12-16U Ø 28.6 brazing connection
- Liquid pipe
 - RXYTQ10U Ø 9.5 brazing connection
 - RYYQ14-16U, RYM014-16U, RXYQ14-16U, RXYQ014-16U, REYQ14-20U, REYA14-20A, RXYTQ12-16U Ø 12.7 brazing connection
 - RYYQ18-20U, RYM018-20U, RXYQ18-20U, RXYQ018-20U Ø 15.9 brazing connection
- Equalising pipe
 - RYM014-16U Ø 22.2 brazing connection
 - RYM018-20U Ø 28.6 brazing connection
- High pressure/low pressure gas pipe
 - REYQ14-20U, REYA14-20A Ø 19.1 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	See note 3.
2	Gas pipe connection port	See note 3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (M8)

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REYA-A / REMA-A

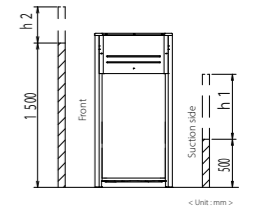


NOTES

- Height of the walls in case of patterns 1 and 2:
 - Front: 1500mm
 - Suction side: 500mm
 - Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35°C (outdoor temperature).

When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.
- If the walls are higher than mentioned above, then additional service space is needed:
 - suction side: service space + h1/2
 - front side: service space + h2/2
- When installing the units, select the pattern that best fits the available space.
- Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely.
- If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.
- Provide sufficient space at the front to connect refrigerant piping (comfortably).



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