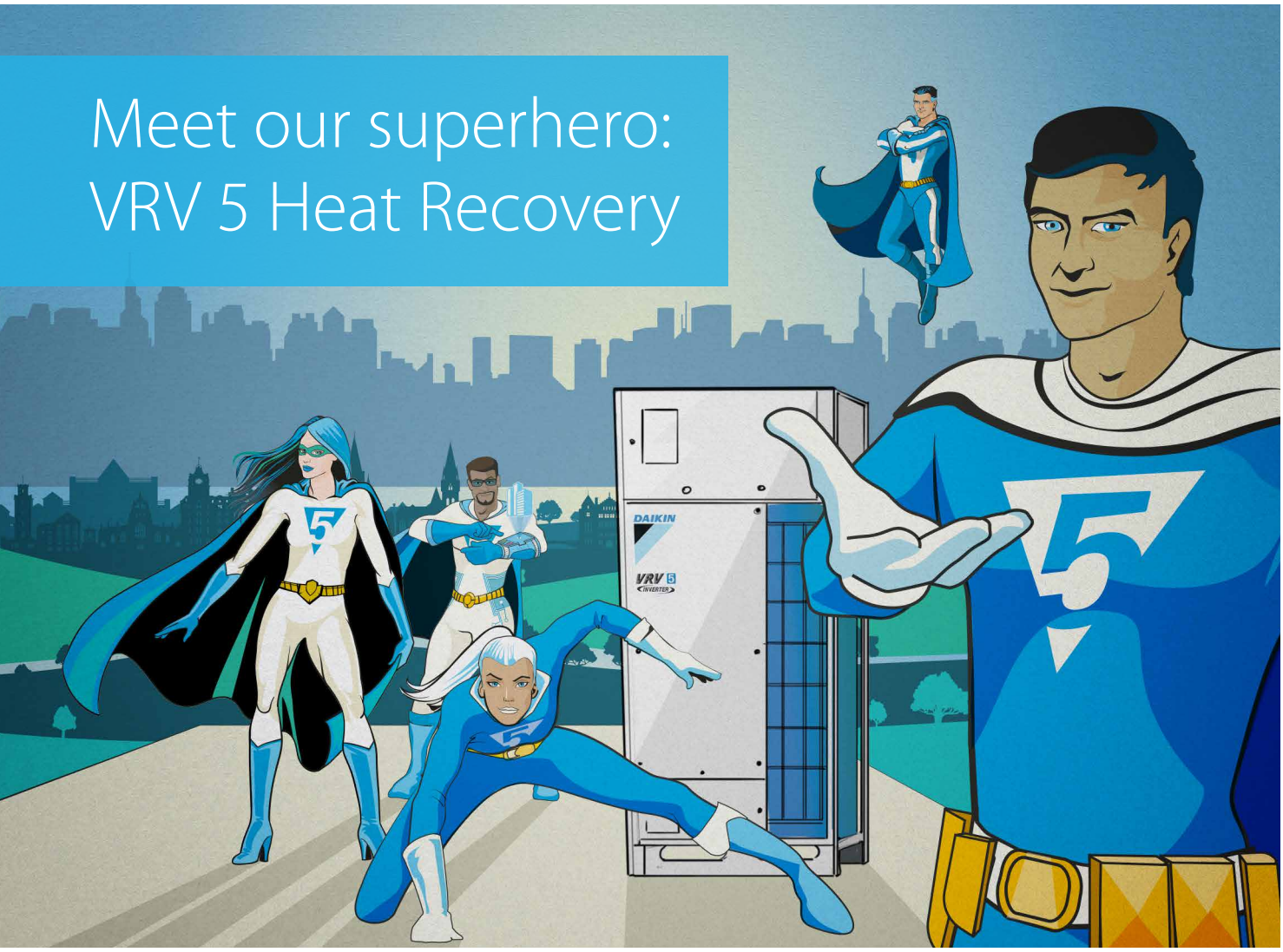
DAIKIN

VRV 5

Meet our superhero: VRV 5 Heat Recovery



Purpose-built to support the decarbonisation of commercial buildings

CO_2

Lower CO_2 equivalents

ErP 2021 COMPLIANT

Industry-leading real life efficiencies

SHÎRUDO TECHNOLOGY

Flexibility to take care of every room

Variable Refrigerant Temperature

Variable Refrigerant Temperature

R-32

BLUEVOLUTION

We're on a mission to build a sustainable legacy

It is in our DNA to provide safe, healthy and comfortable spaces throughout the building life cycle using world-leading technology. Driven by a dedication to achieve net zero CO_2 emissions by 2050, we work together with our partners and customers in helping to create a world with healthier indoor air and minimal environmental impact.

Our sustainability values

Supporting decarbonisation

Our solutions are designed to **support your sustainable goals** by reducing the CO_2 footprint of buildings, whether they are new builds or renovations, thanks to the use of lower GWP refrigerants, high real life seasonal efficiency, smart controls and L∞P by Daikin refrigerant reuse.

A collective journey

Together with our partners and customers, we are working towards the sustainable transformation of our buildings. We provide expert **support** and **peace of mind** throughout the building life cycle, ensuring **future-proof** solutions for a healthier planet.

Building for the future

As market leaders in total solutions, we are constantly **innovating to meet your changing needs** and offer you a comfortable, healthy and safe environment.

LOOP BY DAIKIN

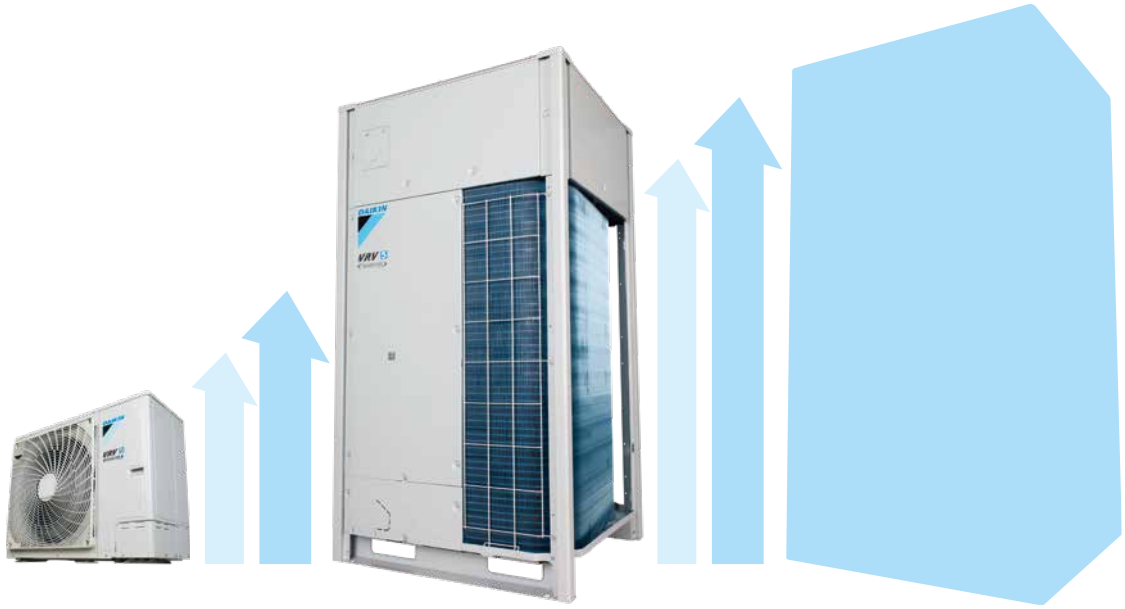
BLUEVOLUTION

Continuing our path to lower CO_2 equivalent solutions

Innovation and adaptation are at the heart of Daikin's decarbonisation strategy. When it comes to refrigerant selection, we have a diversity of choice that we are constantly evaluating to determine the appropriate refrigerant for each application and convert our portfolio to lower GWP refrigerants.

For VRV systems, Daikin has assessed various refrigerants based on four criteria: overall environmental impact, energy efficiency, safety and cost-effectiveness. R32 was determined to be the most balanced for direct expansion heat pumps.

Since launching the VRV 5 S-series with R32 in 2020, we continue to expand our VRV portfolio with the launch of the VRV 5 Heat Recovery system and a VRV 5 heat pump in the near future.



VRV 5 S-series
2020

VRV 5 Heat Recovery
2022

VRV 5 Heat Pump

Benefits of R32

R32 refrigerant has a lower Global Warming Potential and higher efficiency compared to R410A, making it the most effective sustainable solution for VRF systems today.

- **Lower Global Warming Potential** (GWP): only 1/3rd of R410A
- **Lower refrigerant charge**: 15% less compared to R410A
- **Higher energy efficiency**, greatly reducing the indirect CO_2 eq. impact
- **Single component refrigerant**, easy to handle and recycle.

Benefits of VRV systems

VRV systems offer commercial buildings maximum flexibility and peace of mind thanks to the advantages direct expansion (DX) systems have to offer:

- **More responsive:** Immediate reaction to changing conditions helps avoid overheating
- **Highly efficient:** Only 2 energy transfer steps are needed (from air to refrigerant, and from refrigerant to air)
- **Quick and easy to install:** All-in-one box solution without any requirement for field supplied equipment (e.g. gauges, pumps and valves)
- **Limited space requirements:** All components are integrated, and refrigerant piping is compact.

R-32 VRV 5

Lower CO_2 eq. impact, better performance and maximum flexibility

VRV 5 Heat Recovery ensures maximum comfort and efficiency while significantly reducing a building's environmental footprint. What's more its smart, compact and responsive design makes for flexible and easy installation in any commercial building. In fact, it's not just a single champion device – it's an unstoppable team of heroes assembled in one superpowered system.

Sustainability

VRV 5 Heat Recovery is taking sustainable climate control to new heights thanks to its innovative and highly efficient new design.

The VRV system is more sustainable over its entire lifecycle, **reducing the indirect CO_2 eq. impact** thanks to a highly effective 3-pipe heat recovery design and market-leading seasonal efficiency with high ηs,c values of up to 298.3%. This makes it the perfect partner for your BREEAM, LEED or WELL project.

The system is specifically built for R32 refrigerant greatly **reducing** the potential **direct CO_2 eq. impact.**

› 68% less Global Warming Potential (GWP) than R410A.
› 15% less refrigerant charge than R410A.
› A 71% GWP reduction across the entire system.
› Single component refrigerant charge, easy to re-use and recycle.

Ultra-flexible climate control

Any commercial building can benefit thanks to:
› Same **piping flexibility** as R410A.
› Unmatched outdoor unit **capacity up to 90kW** in heating.
› Widest range of dedicated R32 indoor units on the market.

It can be installed practically anywhere thanks to:
› Quiet operation via **5 low sound steps**, bringing sound pressure down to 40 dB(A).
› **High ESP** up to 78Pa allowing concealment indoors.
› **Wide operation range** up to +46°C in cooling and down to -20°C in heating.

Shîrudo Technology truly sets the VRV 5 Heat Recovery apart

SHÎRUDO TECHNOLOGY

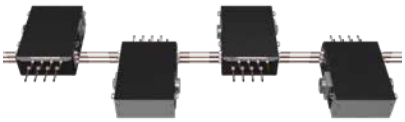
With Shîrudo Technology, you have a fully versatile and responsive system that can accurately control the indoor climate of any room or surface.

- **Peace of mind** as no additional considerations or time-consuming studies are needed.
- **Factory-integrated** refrigerant response measures, compliant with the IEC product standard, third-party approved by a notified body.
- **Easy design and selection** thanks to the integration of VRV Xpress floorplan.
- With built-in Shîrudo Technology, potential leaks are quickly detected and isolated – greatly reducing direct emissions impact.

Want to know more about the IEC product standard and implementation? Refer to page 16.

Quick and easy installation & support

VRV 5 Heat Recovery offers quick and easy installation thanks to:
› The **flow through principle**, reducing the number of brazing points and joints needed
› A completely redesigned BSSV box that requires **less ceiling height**
› A **sliding down PCB** for straightforward servicing.



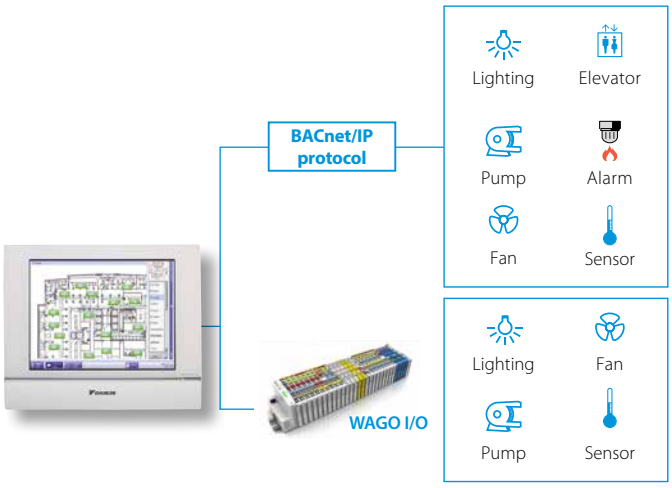
And never fear, support is always here. You'll have access to an extensive network of experts to make installation and maintenance simple and stress-free.

A smart approach to comfort

Daikin's signature Variable Refrigerant Temperature ensures maximum comfort and is completely customisable to meet customers' requirements, with the **widest range of specifically designed R32 indoor units**.

VRV 5 Heat Recovery can match any room size, shape and integration ventilation units for optimum Indoor Air Quality.

And Daikin is committed to constantly innovating its systems to be smarter and easier to control. Our VRV 5 Heat Recovery system is compatible with **Daikin's mini BMS: Intelligent Touch Manager** – a smart energy management system offering real time data for full control of your energy use. For further ease of use, we offer **intuitive online and voice control** via the Onecta app.



VRV 5 outdoor unit overview

Capacity class (kW)

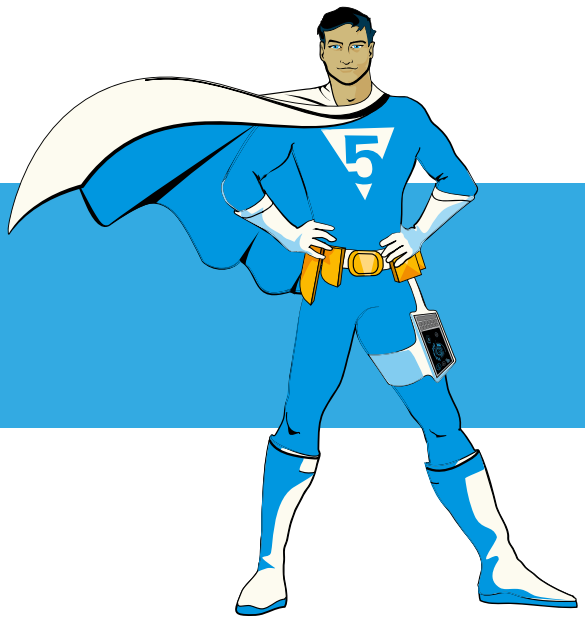
Model		Product name	8	10	12	14	16	18	20	22	24	26	28	VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	HRV units EKVDX	AHU connection	Air curtains	Remarks
Air-cooled heat recovery	NEW & UNIQUE VRV 5 heat recovery › Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R32 › 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	REYA-A 	●	●	●	●	●	●	●	●	●	●	●	○			○	○			
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

Capacity class

Model		Product name	4	6	8	10	12
Multi port BS box	› Unique range of Branch Selector boxes integrating Shirudo Technology	BS-A14AV1B 	●	●	●	●	●



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

VRV 5 indoor unit overview

Type	Model		Product name		Capacity class (kW) 10	15	20	25	32	40	50	63	71	80	100	125	140	200	250
Ceiling mounted cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximize comfort › Flexibility to suit every room layout › Lowest installation height in the market! › Widest choice ever in decoration panel designs and colors	ROUND FLOW	FXFA-A			●	●	●	●	●	●		●	●	●			
	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling › Perfect integration in standard architectural ceiling tiles › Blend of iconic design and engineering excellence › Intelligent sensors save energy and maximize comfort › Small capacity unit developed for small or well-insulated rooms › Flexibility to suit every room layout		FXZA-A		●	●	●	●	●	●									Black and designer panels
Concealed ceiling	Slim concealed ceiling unit	Slim design for flexible installation › Compact dimensions enable installation in narrow ceiling voids › Medium external static pressure up to 44Pa › Only grilles are visible › Small capacity unit developted for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor		FXDA-A	●	●	●	●	●	●	●	●							
	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market! › Slimmest unit in class, only 245mm › Low operating sound level › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths › Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort		FXSA-A (UNIQUE FOR R-32)		●	●	●	●	●	●	●		●	●	●	●			Auto cleaning filter option
	NEW Concealed ceiling unit with high ESP	ESP up to 270 Pa, ideal for extra large sized spaces › 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		FXMA-A							●	●		●	●	●		●	●
Wall mounted	Wall mounted unit	For rooms with no false ceilings nor free floor space › Flat, stylish front panel is more easy to clean › Small capacity unit developted for small of well-insulated rooms › Reduced energy consumption thanks to DC fan motor › The air is comfortably spread up- and downwards thanks to 5 different discharge angles		FXAA-A		●	●	●	●	●	●	●							
Ceiling suspended	NEW Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space › Ideal for comfortable air flow in wide rooms thanks to Coanda effect › Rooms with ceilings up to 3.8m can be heated or cooled very easily! › Can easily be installed in both new and refurbishment projects › Can even be mounted in corners or narrow spaces without any problem		FXHA-A					●		●	●			●				
	NEW & UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space › Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! › Can easily be installed in both new and refurbishment projects › Flexibility to suit every room layout		FXUA-A							●		●		●				
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 R32 on the market

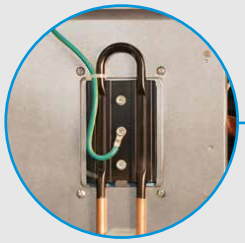
Next generation VRV

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

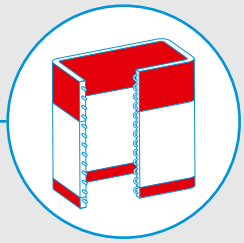
Asymmetric fan design

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



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%



4-sided, 3-row heat exchager

› 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 R32 refrigerant
› Back pressure control increasing efficiency in low load operation

Unmatched piping flexibility

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

Advantages
of 3-pipe technology

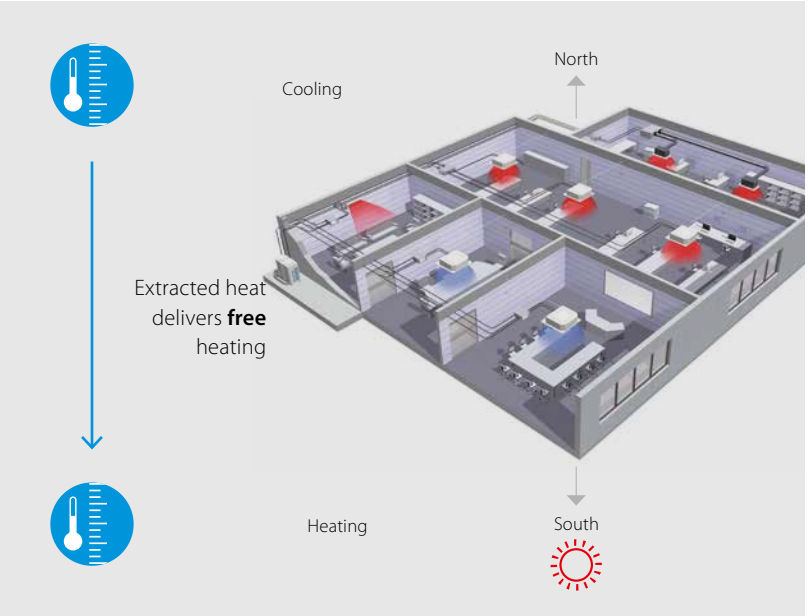
“Free” heat production

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.

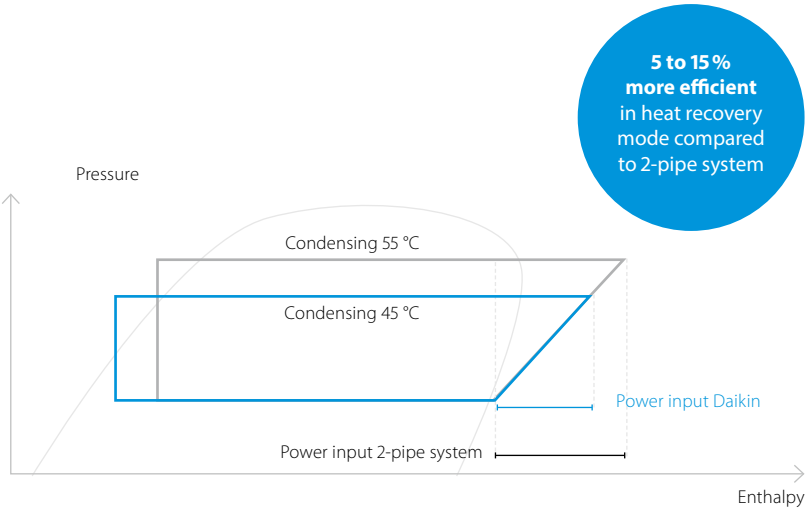
› For hotel owners, this means they can freely choose between cooling or heating to create a perfect environment for guests.
› For offices, it means a perfect working indoor climate for both north and south-facing offices.



More “free” heat

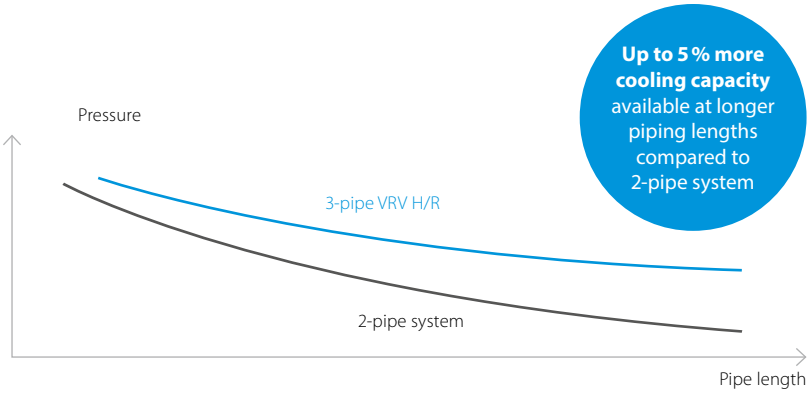
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

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

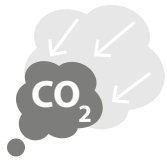
› Smooth refrigerant flow in 3-pipe system thanks to 2 smaller gas pipes results in higher energy efficiency
› Disturbed refrigerant flow in large gas pipe on 2-pipe system results in larger pressure drop



VRV 5 Heat Recovery

Purpose-built to support the decarbonisation of commercial buildings

- Reduced CO_2 equivalent thanks to the use of lower GWP R32 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 Shîrudo Technology
- Specially designed indoor units for R32, ensuring low sound and maximum efficiency
- Simultaneous cooling and heating for the perfect personal comfort of guests/tenants
- Like for like R410A 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 CO_2 equivalents

Five low sound steps

Widest R32 VRV range in the market

REYA-8-12A

Completely redesigned BSSV boxes for faster installation and easier servicing

R-32 BLUEVOLUTION

REYA-A (8 to 28hp)

VRV 5 Condensing Units Heat Recovery Single Modules

Outdoor Units			5hp (Multi Only) REMA5A	8 hp Single REYA8A	10 hp Single REYA10A	12 hp Single REYA12A	14 hp Single REYA14A	16 hp Single REYA16A	18 hp Single REYA18A	20 hp Single REYA20A
Capacity	Nominal Cooling	kW	14.0	22.4	28.0	33.5	40.0	45.0	50.4	55.9
	Nominal Heating	kW	16.0	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Dimensions	Height x Width x Depth	mm	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765	1685 x 930 x 765
Weight		kg	203				284		307	
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Fuse Rating	amps	20	20	25	32	32	40	40	TBC
Refrigerant Circuit	Refrigerant Type		R32							
	Refrigerant Charge	kg	9.0	9.0	9.0	9.0	10.6	10.6	10.6	10.6
Sound Pressure (Cooling)		dBA	56.3	56.3	58.0	60.8	56.1	60.8	63.0	67.0
Sound Power (Cooling)		dBA	78.3	78.3	78.8	82.5	78.7	83.7	83.4	87.9
Piping Limits	Maximum Total Length	m	1000							
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Discharge	inch (mm)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)
	Gas	inch (mm)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	1 1/8 (28.6)
Operation Range (Cooling)	Min / Max	°CDB	-5 / 46							
Operation Range (Heating)	Min / Max	°CWB	-20 / 15.5							

Preliminary specifications subject to change before official launch

R-32 BLUEVOLUTION

REYA-A (10 to 20hp)

VRV 5 Heat Recovery with Continuous Heating

Outdoor Units			10 hp Multi		13 hp Multi		16 hp Multi		18 hp Multi		20 hp Multi	
			REMA5A	REMA5A	REMA5A	REYA8A	REYA8A	REYA8A	REYA8A	REYA10A	REYA8A	REYA12A
Capacity	Nominal Cooling	kW	28.0		36.4		44.8		50.4		55.9	
	Nominal Heating	kW	31.5		41.0		50.0		56.5		62.5	
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	930	930	930	930	930	930	930	930	930
	Depth	mm	765	765	765	765	765	765	765	765	765	765
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415									
	Fuse Rating	amps	20	20	20	20	20	20	20	25	20	32
Refrigerant Circuit	Refrigerant Type		R32									
	Refrigerant Charge	kg	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Sound Pressure (Cooling)		dBA	56.3	56.3	56.3	56.3	56.3	56.3	56.3	58.0	56.3	60.8
Sound Power (Cooling)		dBA	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.8	78.3	82.5
Piping Limits	Maximum Length	m	1000									
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)
	Discharge	inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)
Operation Range (Cooling)	Min / Max	°CDB	-5 / 46									
Operation Range (Heating)	Min / Max	°CWB	-20 / 15.5									

Preliminary specifications subject to change before official launch

R-32 BLUEVOLUTION

REYA-A (22 to 28hp)

VRV 5 Heat Recovery with Continuous Heating

Outdoor Units			22 hp Multi		24 hp Multi		26 hp Multi		28 hp Multi	
			REYA10A	REYA12A	REYA8A	REYA16A	REYA12A	REYA14A	REYA12A	REYA16A
Capacity	Nominal Cooling	kW	61.5		67.4		73.5		78.5	
	Nominal Heating	kW	69.0		75.0		82.5		87.5	
Dimensions	Height	mm	1685	1685	1685	1685	1685	1685	1685	1685
	Width	mm	930	930	930	930	930	930	930	930
	Depth	mm	765	765	765	765	765	765	765	765
Electrical Details	Power Supply	Phase / Hz / V	3 / 50 / 380~415							
	Fuse Rating	amps	25	32	20	40	32	32	32	40
Refrigerant Circuit	Refrigerant Type		R32							
	Refrigerant Charge	kg	9.0	9.0	9.0	10.6	9.0	10.6	9.0	10.6
Sound Pressure (Cooling)		dBA	58.0	60.8	56.3	60.8	60.8	56.1	60.8	60.8
Sound Power (Cooling)		dBA	78.8	82.5	78.3	83.7	82.5	78.7	82.5	83.7
Piping Limits	Maximum Length	m	1000							
Piping Connections - Systems	Liquid	inch (mm)	3/8 (9.5)	1/2 (12.7)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Discharge	inch (mm)	5/8 (15.9)	3/4 (19.1)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)
	Gas	inch (mm)	3/4 (19.1)	7/8 (22.2)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)
Operation Range (Cooling)	Min / Max	°CDB	-5 / 46							
Operation Range (Heating)	Min / Max	°CWB	-20 / 15.5							

Preliminary specifications subject to change before official launch

NEW BS-A14AV1B

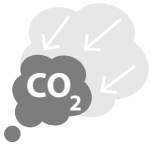
Multi branch selector (BSSV) for VRV 5 Heat Recovery

Specifically developed for lower GWP R32

› **Reduced CO_2 equivalent** thanks to the use of lower GWP R32 refrigerant and lower refrigerant charge

› Unique range of multi BS boxes allowing **efficient 3-pipe** heat recovery

› No limitation on room size, thanks to **Shîrudo 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.



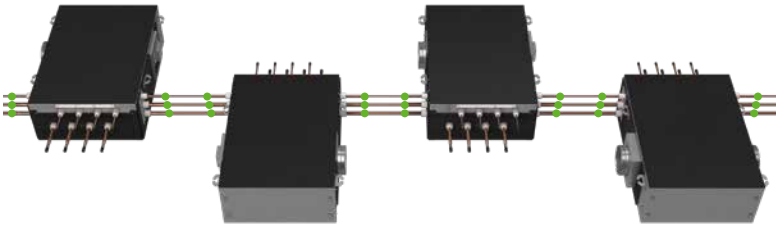
Reduced CO_2 equivalent

Flexibility to take care of every room

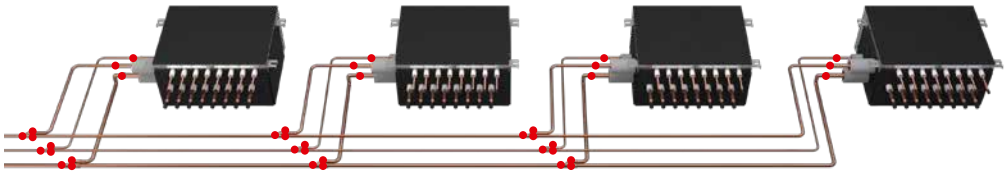
Completely redesigned for faster installation and easier servicing

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

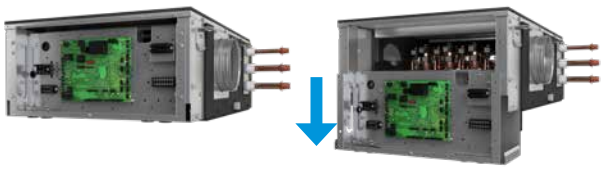
VRV 5: only 24 brazings point and no joint kits



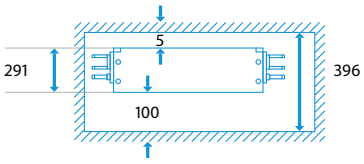
VRV 5: 39 brazing points and 3 joint kits



› Easy servicing in false ceillings thanks to **sliding down PCB**



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



(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

- Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- NEW No limitation on room size, thanks to Shîrudo 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

			BS4A14AV1B	BS6A14AV1B	BS8A14AV1B	BS10A14AV1B	BS12A14AV1B
Connectivity	Maximum number of connectable indoor units (per BS box)		20	30	40	50	60
	Maximum number of connectable indoor units per branch		5	5	5	5	5
	Number of branches		4	6	8	10	12
	Maximum capacity index of connectable indoor units (per BS box)		400	600	750		
	Maximum capacity index of connectable indoor units per branch		140 per port				
			250 if 2 ports are combined				
Piping restrictions	Maximum piping length between BSSV box and indoor unit	m	40				
Flowthrough of header pipes	Total amount of ports allowed in flowthrough		16				
	Maximum allowed amount of BSSV box in flowthrough		4 (4 * 4 port BSSV box = 16 ports)				
	Maximum capacity index of indoor units connected to all BSSV box in flowthrough combined		750				
General	Refrigerant type		R32				
	Unit weight	kg	40	60	65	85	90
	Power supply	V	220-240 V / 50 Hz / 1 Phase				
	Installation direction		Horizontal (0° - max 1° toward drain opening)				
	Drain piping		VP20 (ID, 20mm/OD, 26mm)				
	Unit casing		Galvanized steel plate				
	Height	mm	291	291	291	291	291
	Width (casing only)	mm	600	1000	1000	1400	1400
	Width (casing + header piping)	mm	870	1270	1270	1670	1670
	Depth (casing only)	mm	843	843	843	843	843
	Depth (casing + branch piping)	mm	1039	1039	1039	1039	1039
	Piping connection type		Braze				
	Main pipe size - Suction gas	inches (mm)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)
	Main pipe size - HP/LP gas	inches (mm)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)
	Main pipe size - liquid	inches (mm)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
	Branch pipe size - gas	inches (mm)	3/8 (9.5) / 1/2 (12.7) / 5/8 (15.9)				
	Branch pipe size - liquid	inches (mm)	1/4 (6.4) / 3/8 (9.5)				

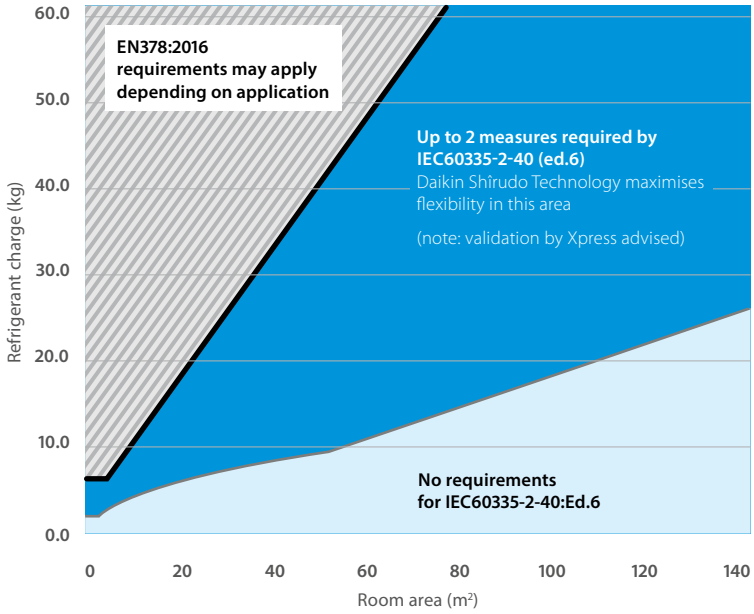
Preliminary specifications subject to change before official launch

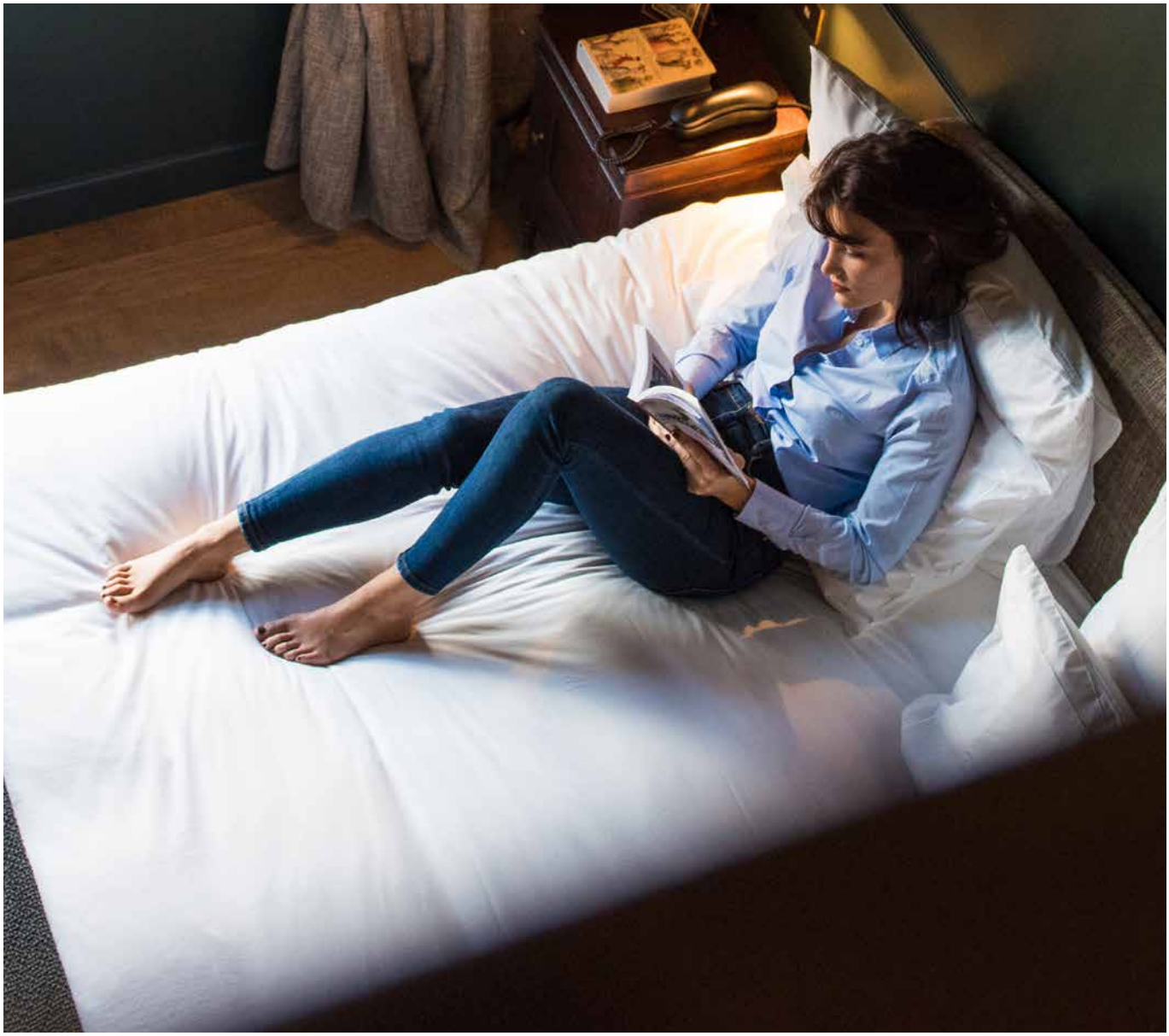
Did you know …

different standards regarding F-gas safety regulations exist?

Refrigerants can be classified according to 2 safety groups:
- Flammability (1, 2L, 2, 3): covered by the specific heat pump standard **IEC60335-2-40 (Ed. 6)** as it prevails over EN378:2016
- Toxicity (A or B): covered by the generic standard on refrigerants **EN378:2016.**

Shîrudo Technology focuses on offering maximum flexibility within the IEC60335-2-40 (Ed.6) requirements as limitations for flammability of A2L refrigerants are stricter than the ones for toxicity.





Peace of mind

SHÎRUDO TECHNOLOGY

With Shîrudo Technology, Daikin ensures compliance to the product standard IEC60335-2-40 (Ed. 6) for indoor units. With factory-integrated refrigerant control measures, these systems are also the quickest and most flexible to design.

There is **no need for complex and time consuming calculations**, even for small room applications. And BSSV boxes come with a ventilated enclosure for quick and simple integration of any potential additional measures – making installation in demanding spaces easier than ever.

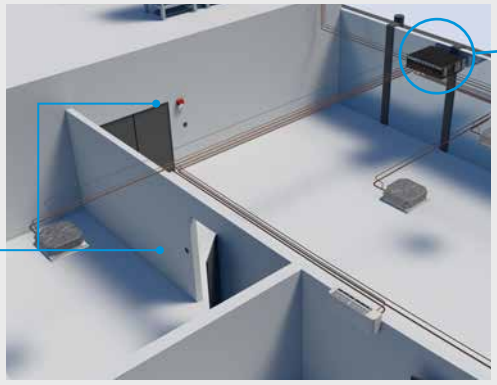
For stress free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration.

Refrigerant control measures factory-integrated

Shîrudo Technology includes 2 factory measures and sensors built into a VRV 5 system.

Integrated sensors to detect refrigerant leak.
Leak detection activates:

Example for VRV 5 Heat Recovery



1 Audible and visual alarm

› Integrated in the Madoka wired remote controller
› In case an additional supervisor alarm is needed it can be easily integrated

2 Refrigerant recovery and shut-off valves

› Shut off valves of the affected refrigerant branch are closed, containing the leak
› The rest of the system remains in operation

Compliance taken care of

› No study or calculations needed on where and how to install outdoor or indoor units.
› No need for studies to decide if and what safety measures are required.
› Third party CB certified by a notified body (SGS CEBEC).

Automatic, real time leak detection and refrigerant containment controls

› Fully compliant to product standard (IEC60335-2-40), reducing the risk of direct CO_2 eq. impact from a refrigerant leak.
› Real time leak detection sensors, triggering refrigerant containment safety measures in the unlikely event of a leak.

(1) Refer to Xpress selection software to ensure compliance to specific product standard.
Field supplied duct and fan may be be required to install the BS box in very small spaces.

VRV 5 indoor unit benefit overview

			Ceiling mounted cassette units		Concealed ceiling units			Wall mounted unit	Ceiling suspended units	
			FXFA-A	FXZA-A	FXDA-A	FXSA-A	NEW FXMA	FXAA-A	NEW FXHA-A	NEW FXUA-A
										
We care	Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.	●	●	●	●	●	●	●	●
	Fan only	The unit can be used as fan, blowing air without heating or cooling.	●	●	●	●	●	●	●	●
	Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	o		o					
	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	o	o						
Comfort	Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.	●	●						●
	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.	●	●	●	●		●		
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	●	●	●	●	●	●	●	●
Air treatment	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)
Humidity control	Dry programme	Allows humidity levels to be reduced without variations in room temperature.	●	●	●	●	●	●	●	●
Air flow	Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains.	●	●						
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.	●	●				●	●	●
	Fan speed steps	Allows to select up to the given number of fan speed.	5 + auto	3 + auto	3	3 + auto	3 (50-125) 3 + auto (200-250)	3 + auto	3	3 + auto
	Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.	●	●						●
Remote control & timer	Onecta controller (BRP069C51)	Control your indoor climate from any location via smartphone or tablet.	o	o	o	o	o	o	o	o
	Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.	o	o	o	o	o	o	o	o
	Infrared remote control	Starts, stops and regulates the air conditioner from a distance.	o (1)	o (1)	o (1)	o (1)	o (1)	o (1)	o (1)	o (1)
	Wired remote control	Starts, stops and regulates the air conditioner.	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)
	Centralised control	Starts, stops and regulates several air conditioners from one central point.	o	o	o	o	o	o	o	o
Other funtcions	Auto-restart	The unit restarts automatically at the original settings after power failure.	●	●	●	●	●	●	●	●
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.	●	●	●	●	●	●	●	●
	Drain pump kit	Facilitates condensation draining from the indoor unit.	●	●	●	●	●	o	o	●
	Multi tenant	The indoor unit's main power supply can be turned off when leaving the hotel or office building.	●	●	●	●		●		

● standard, o optional

(1) Must be combined with Madoka wired remote controller.
(2) Pre filter
(3) BRC1H52W/S/K is a required option

The most comfortable cassette just got better

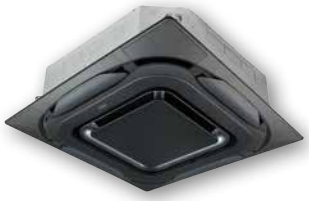
New round flow cassette

ROUND FLOW

› **Bigger louvers** and **new sensor logic** further improves equal air distribution in the room

› **Widest ever choice in panels** for cassette units, with up to 8 different panels

Black auto cleaning panel

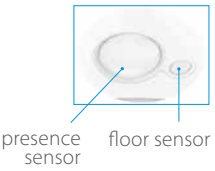


Black designer panel

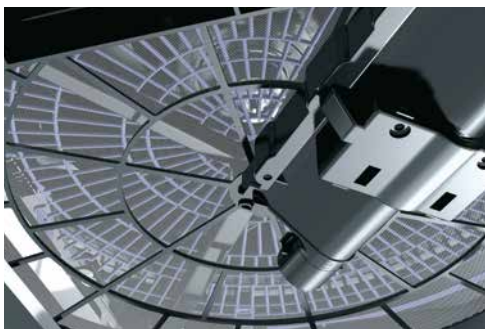
Full white standard panel

White designer panel

› Comes with the known benefits: **360° air flow discharge and intelligent sensors**



› **Auto cleaning** panels available in black and white



Auto cleaning filter

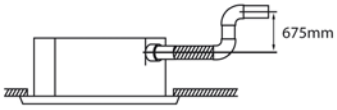
Dust can simply be removed using a vacuum cleaner without opening the unit.

* Available as an option

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Optimised design for R32 refrigerant
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- Optional fresh air intake
- Standard drain pump with 675mm lift increases flexibility and installation speed



FXFA-A

BRC1H52W, BRP069C51

White panel

White auto cleaning panel

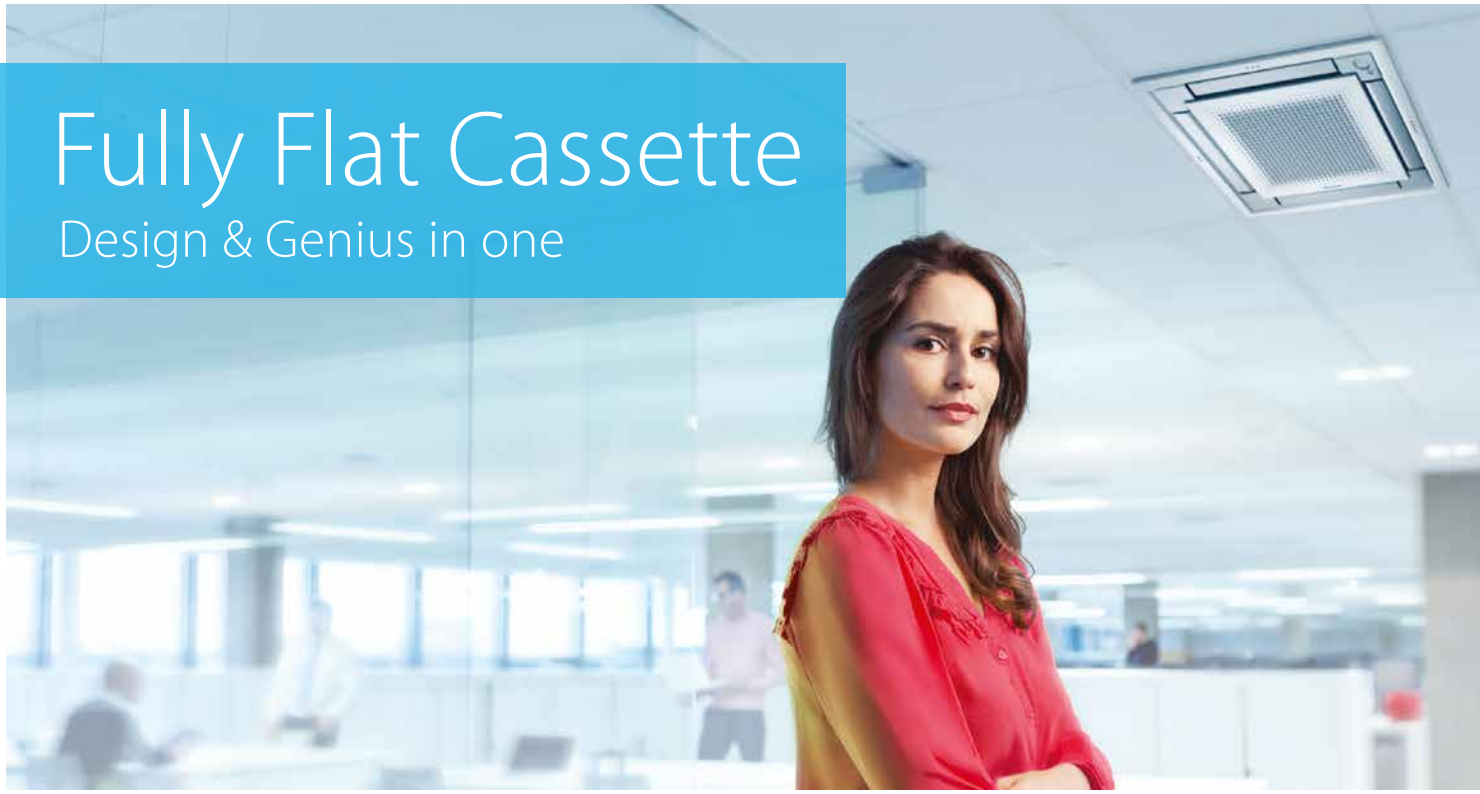
Black panel

Black design panel

Indoor Units				FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A	FXFA80A	FXFA100A	FXFA125A
Capacity	UK Total Cooling		kW	1.80	2.30	2.90	3.60	4.50	5.70	7.20	9.00	11.30
	UK Sensible Cooling		kW	1.60	1.90	2.60	3.00	3.60	4.60	5.80	6.90	8.60
	Nominal Cooling		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Nominal Heating		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Air Flow Rate	High		m^3/sec	0.213	0.213	0.213	0.247	0.252	0.277	0.388	0.480	0.550
	Nom		m^3/sec	0.178	0.178	0.178	0.210	0.213	0.222	0.322	0.353	0.457
	Low		m^3/sec	0.148	0.148	0.148	0.173	0.178	0.178	0.230	0.230	0.343
Dimensions	Height x Width x Depth		mm	204x840x840						246x840x840		288x840x840
Weight			kg	18	18	18	19	21	21	24	24	26
Standard Decoration Panels	Model			Roundflow BYCQ140E white (standard panel) / Roundflow BYCQ140EB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	65x950x950								
	Weight		kg	5.5								
Fully White Decoration Panel	Model			Roundflow with white louvres BYCQ140EW								
	Colour			Pure White (RAL 9010)								
	Dimensions H x W x D		mm	65x950x950								
	Weight		kg	5.5								
Self Cleaning Decoration Panels	Model			Roundflow self-cleaning BYCQ140EGF white / Roundflow self-cleaning BYCQ140EGFB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	148x950x950								
	Weight		kg	10.3								
Electrical Details	Running Current		amps	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.7	1.2
	Power Supply		Phase / Hz / V	1 / 50 / 230								
	Max Fuse Amp		amps	6.0								
Sound Level	Sound Pressure	High	dBA	31.0	31.0	31.0	33.0	33.0	35.0	38.0	43.0	45.0
		Nom	dBA	29.0	29.0	29.0	31.0	31.0	33.0	34.0	37.0	41.0
		Low	dBA	28.0	28.0	28.0	29.0	29.0	30.0	30.0	30.0	36.0
	Sound Power		dBA	49.0	49.0	49.0	51.0	51.0	53.0	55.0	60.0	61.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)

Fully Flat Cassette

Design & Genius in one



Why choose fully flat cassette

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

› Advanced technology and top efficiency combined

› Most quiet cassette available on the market

FXZQ-A

Choice between grey or white panel

Benefits for the installer

› Unique product in the market!
› Most quiet unit (25dBA)
› The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
› Meeting European design taste.

Benefits for the consultant

› Unique product in the market!
› Blends seamlessly in any modern office interior design
› Ideal product to improve BREEAM score/EPBD in combination with Sky Air (FFA*) or VRV IV heat pump units (FXZQ*).

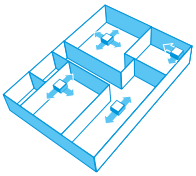
Benefits for the end user

› Engineering excellence and unique design in one
› Most quiet unit (25dBA)
› Perfect working conditions: no more cold draughts
› Save up to 27% on your energy bill thanks to the optional sensors
› Flexible usage of space and suits any room configuration thanks to individual flap control
› User-friendly remote control, available in several languages.

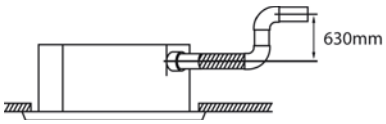
Fully flat cassette

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

- Optimised design for R32 refrigerant
- Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Two optional intelligent sensors improve energy efficiency and comfort
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- Optional fresh air intake
- Standard drain pump with 630mm lift increases flexibility and installation speed

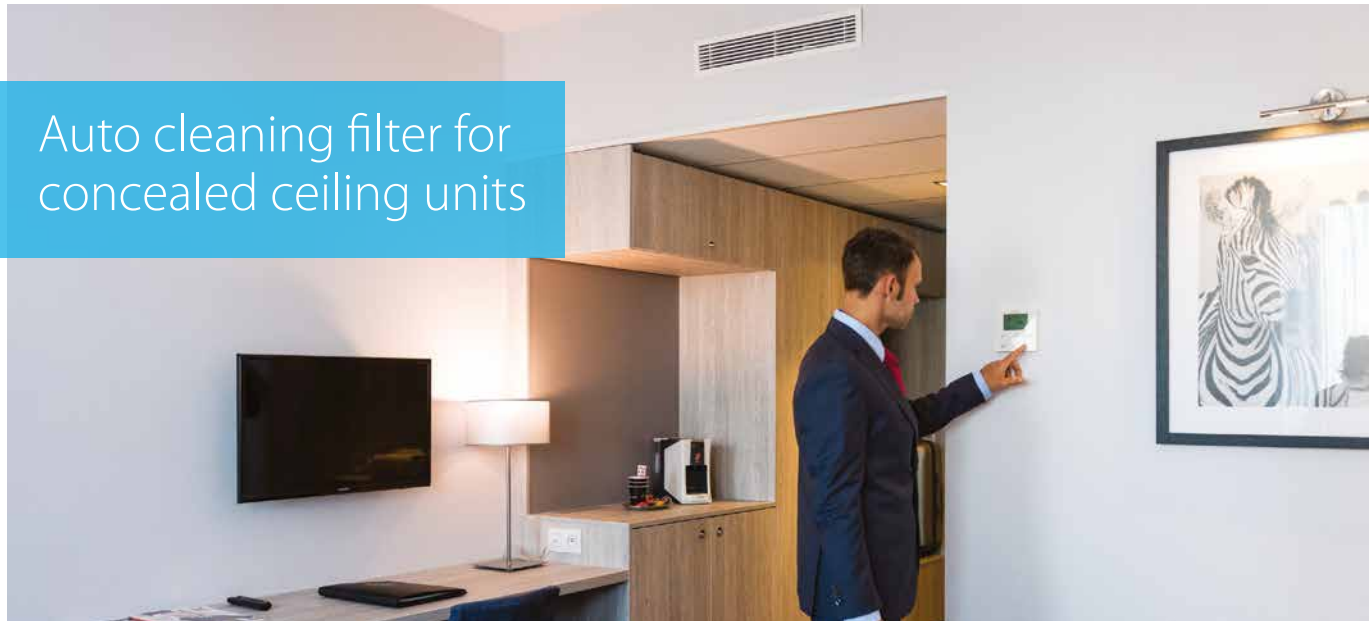


FXZA-A

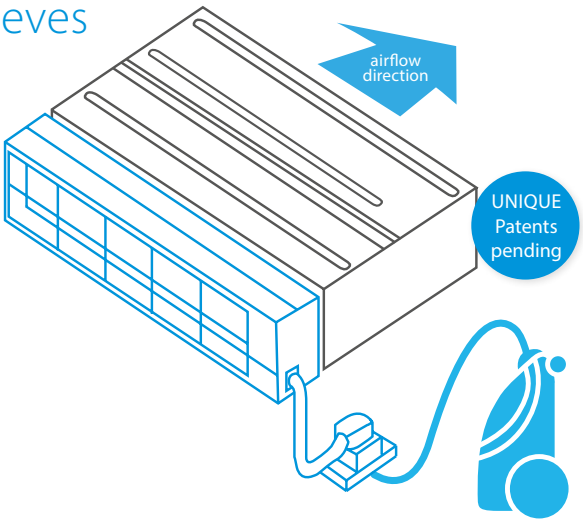
BRC1H52W, BRP069C51

Indoor Units				FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A	FXFA80A	FXFA100A	FXFA125A
Capacity	UK Total Cooling		kW	1.80	2.30	2.90	3.60	4.50	5.70	7.20	9.00	11.30
	UK Sensible Cooling		kW	1.60	1.90	2.60	3.00	3.60	4.60	5.80	6.90	8.60
	Nominal Cooling		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Nominal Heating		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Air Flow Rate	High		m^3/sec	0.213	0.213	0.213	0.247	0.252	0.277	0.388	0.480	0.550
	Nom		m^3/sec	0.178	0.178	0.178	0.210	0.213	0.222	0.322	0.353	0.457
	Low		m^3/sec	0.148	0.148	0.148	0.173	0.178	0.178	0.230	0.230	0.343
Dimensions	Height x Width x Depth		mm	204x840x840						246x840x840		288x840x840
Weight			kg	18	18	18	19	21	21	24	24	26
Standard Decoration Panels	Model			Roundflow BYCQ140E white (standard panel) / Roundflow BYCQ140EB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	65x950x950								
	Weight		kg	5.5								
Fully White Decoration Panel	Model			Roundflow with white louvres BYCQ140EW								
	Colour			Pure White (RAL 9010)								
	Dimensions H x W x D		mm	65x950x950								
	Weight		kg	5.5								
Self Cleaning Decoration Panels	Model			Roundflow self-cleaning BYCQ140EGF white / Roundflow self-cleaning BYCQ140EGFB black								
	Colour			Pure White (RAL 9010) / Black (RAL9005)								
	Dimensions H x W x D		mm	148x950x950								
	Weight		kg	10.3								
Electrical Details	Running Current		amps	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.7	1.2
	Power Supply		Phase / Hz / V	1 / 50 / 230								
	Max Fuse Amp		amps	6.0								
Sound Level	Sound Pressure	High	dBA	31.0	31.0	31.0	33.0	33.0	35.0	38.0	43.0	45.0
		Nom	dBA	29.0	29.0	29.0	31.0	31.0	33.0	34.0	37.0	41.0
		Low	dBA	28.0	28.0	28.0	29.0	29.0	30.0	30.0	30.0	36.0
	Sound Power		dBA	49.0	49.0	49.0	51.0	51.0	53.0	55.0	60.0	61.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)

Auto cleaning filter for concealed ceiling units

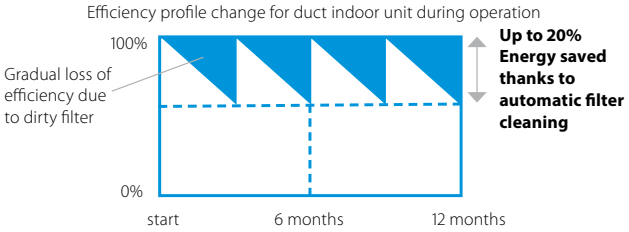


The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs



Reduce running costs

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



Minimal time required for filter cleaning

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

Improved indoor air quality

› Optimum airflow eliminates draft and insulates sound

Superb reliability

› Prevents clogged filters for seamless operation

Unique technology

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

How does it work?

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

Combination table

	Split / Sky Air				VRV						
	FDXM-F9				FXDA-A/FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

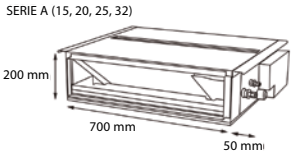
Specifications

	BAE20A62	BAE20A82	BAE20A102
Height (mm)	210		
Width (mm)	830	1,030	1,230
Depth (mm)	188		

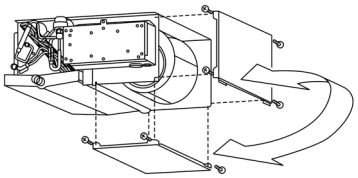
Slim concealed ceiling unit

Slim design for flexible installation

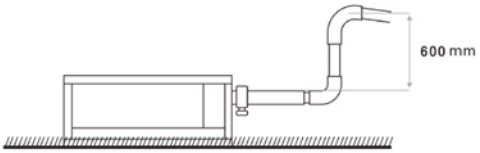
› Optimised design for R32 refrigerant
› 10 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
› Compact dimensions, can easily be mounted in a ceiling void of only 240mm

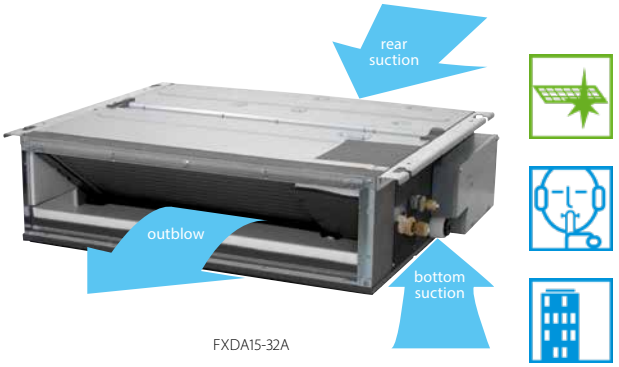


› Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
› Discretely concealed in the wall: only the suction and discharge grilles are visible
› Optional auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
› Flexible installation, as the air suction direction can be altered from rear to bottom suction



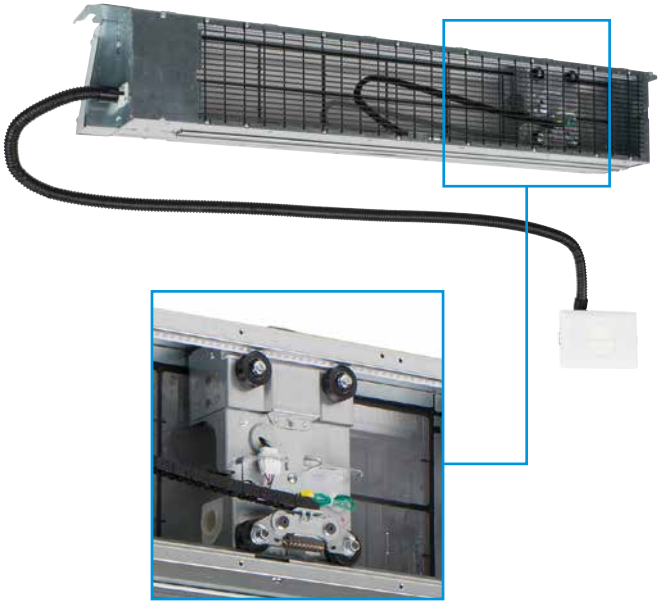
› Standard drain pump with 600mm lift increases flexibility and installation speed





FXDA15-32A

BRC1H52W, BRP069C51



Auto cleaning filter option

Indoor Units				FXDA10A	FXDA15A	FXDA20A	FXDA25A	FXDA32A	FXDA40A	FXDA50A	FXDA63A
Capacity	UK Total Cooling		kW	0.8	1.4	1.8	2.3	2.9	3.6	4.5	5.7
	UK Sensible Cooling		kW	0.7	1.3	1.6	1.9	2.2	2.8	3.5	4.3
	Nominal Cooling		kW	1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m3/sec	0.087	0.108	0.133	0.133	0.133	0.175	0.208	0.275
	Nom		m3/sec	0.082	0.103	0.120	0.120	0.120	0.158	0.183	0.242
	Low		m3/sec	0.078	0.097	0.107	0.107	0.107	0.142	0.167	0.217
External Static Pressure	High		Pa	30	30	30	30	30	44	44	44
	Low		Pa	10	10	10	10	10	15	15	15
Dimensions	Height x Width x Depth		mm	200 x 750 x 620					200 x 950 x 620		200 x 1150 x 620
Weight			kg	22	22	23	23	23	26.5	26.5	30.5
Electrical Details	Running Current		amps	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.5
	Power Supply		Phase / Hz / V	1 / 50 / 230							
	Max Fuse Amp		amps	6							
Sound Level	Sound Pressure	High	dBA	29.0	32.0	33.0	33.0	33.0	34.0	35.0	36.0
		Nom	dBA	28.0	31.0	31.0	31.0	31.0	32.0	33.0	34.0
		Low	dBA	26.0	27.0	27.0	27.0	27.0	28.0	29.0	30.0
	Sound Power		dBA	48.0	50.0	51.0	51.0	51.0	52.0	53.0	54.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)

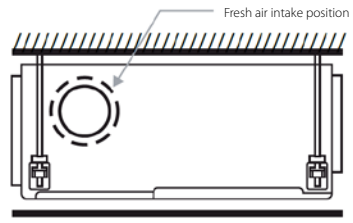
Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

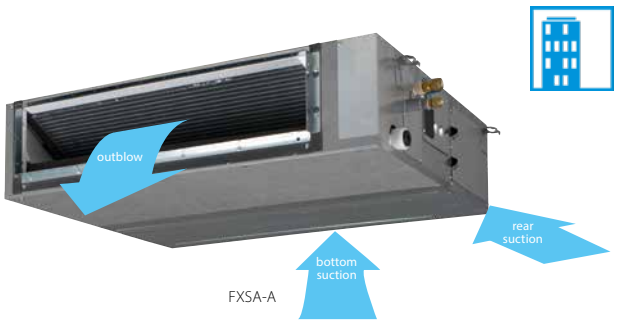
› Optimised design for R32 refrigerant
› Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge

› Quiet operation: down to 25dBA sound pressure level
› Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
› Possibility to change ESP via wired remote control allows optimisation of the supply air volume
› Discretely concealed in the wall: only the suction and discharge grilles are visible
› 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
› Optional fresh air intake
› Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing



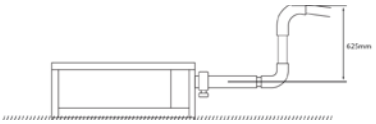
* Brings in up to 10% of fresh air into the room



FXSA-A

BRC1H52W, BRP069C51

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

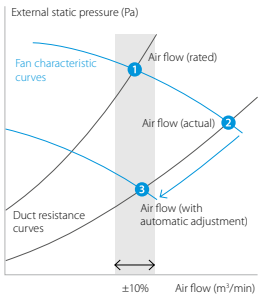


Automatic Airflow Adjustment function

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

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



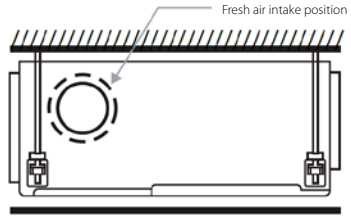
Indoor Units				FXSA15A	FXSA20A	FXSA25A	FXSA32A	FXSA40A	FXSA50A	FXSA63A	FXSA80A	FXSA100A	FXSA125A	FXSA140A
Capacity	UK Total Cooling		kW	1.4	1.8	2.3	2.9	3.6	4.5	5.7	7.2	9.0	11.3	12.9
	UK Sensible Cooling		kW	1.1	1.4	1.8	2.3	2.9	3.6	4.5	5.7	7.2	8.9	10.2
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Air Flow Rate	High		m3/sec	0.145	0.150	0.150	0.158	0.250	0.253	0.350	0.383	0.533	0.600	0.650
	Nom		m3/sec	0.125	0.125	0.125	0.133	0.208	0.208	0.300	0.325	0.450	0.525	0.567
	Low		m3/sec	0.108	0.108	0.108	0.117	0.183	0.183	0.250	0.267	0.383	0.433	0.467
External Static Pressure	High		Pa	150	150	150	150	150	150	150	150	150	150	150
	Low		Pa	30	30	30	30	30	30	30	40	40	50	50
Dimensions	Height x Width x Depth		mm	245 x 550 x 800				245 x 700 x 800		245 x 1000 x 800		245 x 1400 x 800		245 x 1550 x 800
Weight			kg	23.5	23.5	23.5	24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Electrical Details	Running Current		amps	0.7	0.7	0.7	0.8	1.3	1.3	1.3	1.5	1.8	2.0	2.7
	Power Supply		Phase / Hz / V	1 / 50 / 230										
	Max Fuse Amp		amps	6										
Sound Level	Sound Pressure	High	dBA	29.5	30.0	30.0	31.0	35.0	35.0	33.0	35.0	36.0	39.0	41.5
		Nom	dBA	28.0	28.0	28.0	29.0	32.0	32.0	30.0	32.0	34.0	36.0	38.0
		Low	dBA	25.0	25.0	25.0	26.0	29.0	29.0	27.0	29.0	31.0	33.0	34.0
	Sound Power		dBA	54.0	54.0	54.0	55.0	60.0	60.0	59.0	61.0	61.0	64.0	64.0
Piping Connections	Liquid		inches (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas		inches (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)

Concealed ceiling unit with high ESP

Ideal for large sized spaces ESP up to 270 Pa

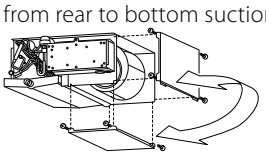
- Optimised for R32 refrigerant
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- High external static pressure up to 270Pa facilitates extensive duct and grille network
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required (50-125 class)

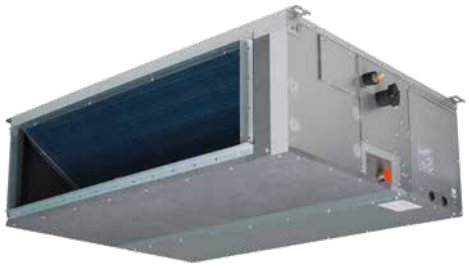
Fresh air intake opening in casing



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

- Flexible installation, as the air suction direction can be altered from rear to bottom suction (50-125 class)

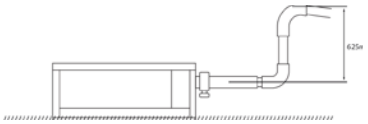




FXMA50-80A

BRC1H52W, BRP069C51

- Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



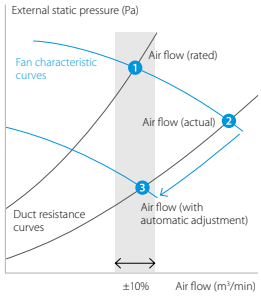
- High external static pressure up to 270Pa facilitates extensive duct and grille network
- Large capacity unit: up to 31.5 kW heating capacity

Automatic Airflow Adjustment function

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

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance ✳ the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



Indoor Units				FXMA50A	FXMA63A	FXMA80A	FXMA100A	FXMA125A
Capacity	UK Total Cooling		kW	4.5	5.7	7.2	9.0	11.3
	UK Sensible Cooling		kW	4.1	4.9	6.1	7.3	9.2
	Nominal Cooling		kW	5.6	7.1	9.0	11.2	14.0
	Nominal Heating		kW	6.3	8.0	10.0	12.5	16.0
Air Flow Rate	High		m^3/sec	0.300	0.325	0.417	0.533	0.600
	Nominal		m^3/sec	0.275	0.292	0.375	0.458	0.500
	Low		m^3/sec	0.250	0.267	0.333	0.383	0.433
External Static Pressure	High		Pa	200	200	200	200	200
	Factory Setting		Pa	100	100	100	100	100
Dimensions	Height x Width x Depth		mm	300x1000x700			300x1400x700	
Weight			kg	35.0			46.0	
Electrical Details	Power Supply		Phase / Hz / V	1 / 50 / 230				
	Max Fuse Amp		amps	16				
Sound Level	Sound Pressure (Cooling)	H / M / L	dBA	41.0	42.0	43.0	43.0	44.0
	Sound Power (Cooling)	H	dBA	61.0	64.0	67.0	65.0	70.0

Wall mounted unit

For rooms with no false ceilings nor free floor space

- Optimised design for R32 refrigerant
- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit

FXAA-A

BRC1H52W, BRP069C51

3 fan speeds available!

Indoor Units				FXAA15A	FXAA20A	FXAA25A	FXAA32A	FXAA40A	FXAA50A	FXAA63A
Capacity	UK Total Cooling		kW	1.4	1.8	2.3	2.9	3.6	4.5	5.7
	UK Sensible Cooling		kW	1.4	1.8	2.0	2.4	3.3	3.7	4.6
	Nominal Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Nominal Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	High		m3/sec	0.118	0.132	0.138	0.157	0.203	0.237	0.303
	Low		m3/sec	0.108	0.108	0.108	0.108	0.163	0.182	0.215
Dimensions	Height x Width x Depth		mm	290 x 795 x 266				290 x 1050 x 269		
Weight			kg	12	12	12	12	15	15	15
Electrical Details	Running Current		amps	0.2	0.2	0.3	0.3	0.3	0.4	0.5
	Power Supply		Phase / Hz / V	1 / 50 / 230						
	Max Fuse Amp		amps	6						
Sound Level	Sound Pressure	High	dBA	32.0	33.0	35.0	37.5	37.0	41.0	46.5
		Low	dBA	28.5	28.5	28.5	28.5	33.5	35.5	38.5
	Sound Power		dBA	51.0	52.0	53.0	55.0	55.0	58.0	63.0
Piping Connections	Liquid		inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas		inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)

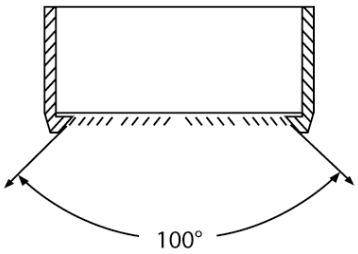
Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

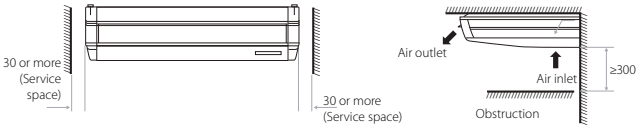
FXHA63A

BRC1H52W, BRP069C51

› Optimised for R32 refrigerant
› Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



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



› Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing

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

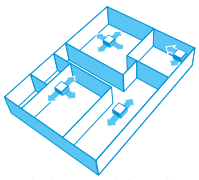
› Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

Indoor Units				FXHA32A	FXHA50A	FXHA63A	FXHA100A
Capacity	UK Total Cooling		kW	2.9	4.0	5.7	9.0
	UK Sensible Cooling		kW	2.3	3.2	4.4	6.3
	Nominal Cooling		kW	3.6	5.6	7.1	11.2
	Nominal Heating		kW	4.0	6.3	8.0	12.5
Air Flow Rate	High		m^3/sec	0.208	0.267	0.292	0.450
	Nominal		m^3/sec	0.183	0.233	0.250	0.367
	Low		m^3/sec	0.167	0.208	0.217	0.317
Dimensions	Height x Width x Depth		mm	235 x 960 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1590 x 690
Weight			kg	24	33	33	39
Electrical Details	Power Supply		Phase / Hz / V	1 / 50 / 230			
	Max Fuse Amp		amps	16			
Sound Level	Sound Pressure (Cooling)	H / M / L	dBA	36 / 34 / 31	36.5 / 34.5 / 33	37 / 35 / 34	44 / 37 / 34
	Sound Power (Cooling)	H	dBA	54.0	54.0	55.0	62.0

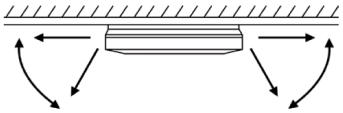
4-way blow ceiling suspended unit

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

- Optimised for R32 refrigerant
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60° can be programmed via the remote control

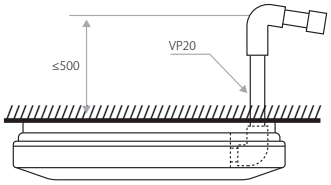


FXUA-A

BRC1H52W, BRP069C51

UNIQUE

- Standard drain pump with 720mm lift increases flexibility and installation speed



Indoor Units				FXUA50A	FXUA71A	FXUA100A
Capacity	UK Total Cooling		kW	4.0	6.4	9.0
	UK Sensible Cooling		kW	3.2	5.2	7.0
	Nominal Cooling		kW	5.6	8.0	11.2
	Nominal Heating		kW	6.3	9.0	12.5
Air Flow Rate	High		m^3/sec	0.283	0.367	0.517
	Nominal		m^3/sec	0.242	0.308	0.425
	Low		m^3/sec	0.217	0.267	0.350
Dimensions	Height x Width x Depth		mm	198 x950x950		
Weight			kg	26	26	27
Electrical Details	Power Supply		Phase / Hz / V	1 / 50 / 230		
	Max Fuse Amp		amps	16		
Sound Level	Sound Pressure (Cooling)	H / M / L	dBA	37 / 35 / 33	40 / 38 / 36	47 / 44 / 40
	Sound Power (Cooling)	H	dBA	55.0	58.0	65.0

Options & accessories – VRV

Outdoor units

		VRV Heat Recovery	
		REYA8-20A REMA5A	2 module systems
	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: EKBPH012T 14-20: EKBPH020T	
Kits	**Multi-module connection kit (obligatory)** – Connects multiple modules into a single refrigerant system		BHFQ23P907

			Ceiling mounted cassette units	
			Round flow (800x800)	4-way (600x600)
			FXFA-A	FXZA-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)	R32 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)
		Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	R32 models: BRYQ60A3W (white) BRYQ60A3S (grey)
Individual control systems		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)
		BRP069C51 – Onecta app	●	●
		Madoka **BRC1H52W** (White) / **BRC1H52S** (Silver) / **BRC1H52K** (Black) User-friendly wired remote controller with premium design	● (mandatory)	● (mandatory)
Centralised control systems		**DCC601A51** – intelligent Tablet Controller	●	●
		DCS601C51 (12) – intelligent Touch Controller	●	●
		DCS302C51 (12) – Central remote controller	●	●
		DCS301B51 (12) (13) – Unified ON/OFF controller	●	●
Building Management System & Standard protocol interfaces	for individual control	**RTD-NET** – Modbus interface for monitoring and control	●	●
		RTD-10 – Modbus interface for infrastructure cooling	●	●
		RTD-20 – Modbus interface for retail	●	●
		RTD-HO – Modbus interface for hotel	●	●
		KLIC-DI – KNX Interface	●	●
	for central control	**DCM601A51** – intelligent Touch Manager	●	●
		EKMBDXB – Modbus interface	●	●
		DCM010A51 – Daikin PMS interface	●	●
		DMS502A51 – BACnet Interface	●	●
		DMS504B51 – LonWorks Interface	●	●
Filters		Replacement long life filter, non-woven type	KAF5511D160	KAF441C60
		Auto cleaning filter	see decoration panel	
Wiring and sensors		**KRCS** – External wired temperature sensor	KRCS01-7B	KRCS01-8B
		K.RSS – External wireless temperature sensor	SB.K.RSS_RFC (EKEWTSC-2 + 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)
		Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C12 (2)(7)	EKRP1C14 (2)
		Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 (2)(7)	KRP4A53 (2)
		Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52
		Adapter for keycard and/or window contact connection (2)(11)	BRP7A53	BRP7A53 (2)
		External control adapter for outdoor unit (installation on indoor unit)		
		Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98A (7) KRP1BC101	KRP1BB101 KRP1BC101
		Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard
		Relay PCB for output signal of refrigerant sensor	ERP01A51 (2)	ERP01A50 (2)
Others		Drain pump kit	Standard	Standard
		Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60
		Air discharge adapter for round duct		
		L-type piping kit		

(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 BRC1E or BRC1H* 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

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 *to expand our VRV portfolio with the launch of the VRV 5 Heat Recovery system and a VRV 5 heat pump in the near future.	●

Concealed ceiling units (duct units)			Ceiling suspended units		Wall mounted units
Slim	Medium ESP	High ESP	1-way blow	4-way blow	
FXDA-A	FXSA-A	FXMA-A	FXHA-A	FXUA-A	FXAA-A
				KDBHP49B140 + KDBTP49B140	
				BRE49B2F	
BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA630
●	●	●	●	●	●
● (mandatory)	● (mandatory)	● (mandatory)	● (mandatory)	● (mandatory)	● (mandatory)
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
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●	●	●	●	●	●
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●	●	●	●		●
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●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
		200~250: BAFL502A250 (20)	32: KAFP501A56 50~63: KAFP501A80 100: KAFP501A160	KAFP551K160	
15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102					
KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B
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)
			KRP1BA58		
ERP02A50 (2)	EKRP1C14 (2)	EKRP1C14 (2)		EKRP1C14 (2)	ERP02A50 (2)
KRP4A54-9 (2)	KRP4A52(2)	50~125: KRP4A52 200~250: KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)
KRP2A53 (2)	KRP2A51(2)	KRP2A51	KRP2A62		KRP2A61(2)
BRP7A54	BRP7A51	BRP7A51	BRP7A52 (2)	BRP7A53	BRP7A51 (2)
DTA104A53	DTA104A61 (2)	DTA104A61 (2)	DTA104A61		DTA104A51(2) / DTA104A61(2)
KRP1BB101	KRP1BC101	KRP1BC101	KRP1D93A/ KRP4B93	KRP1B97	KRP4A93
	Standard	Standard	standard	standard	Standard
ERP01A51 (2)	ERP01A50 (2)	ERP01A50	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)
Standard	Standard	200~250: BDU510B250VM	32-50-63: KDU50R63 100: KDU50R160		K-KDU572KVE
			KDDQ50A140		
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140 200~250: -			
			32: KHFP5M35 50~63: KHFP5N63 100: KHFP5N160		

(11) Only possible in combination with BRC1H* / BRC1E*
(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 harnass 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 R32 indoor units cannot be connected to this controller
(19) The BYFQ60C4* R32 panels can be connected to R410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary

Meet our superhero: VRV 5 Heat Recovery

Purpose-built to support the decarbonisation of commercial buildings

Support your customers in future-proofing their buildings with a breakthrough solution for sustainable climate control.

Now, more than ever, we all have a part to play in reducing our environmental impact. That's why Daikin is introducing the VRV 5 Heat Recovery unit with innovative new superpowers that make it a future-proof climate solution. Smarter and more responsive than ever – it offers you and your customers complete peace of mind.

Help your customers reduce their CO_2 footprint now while enjoying maximum comfort and ease of use. Visit **www.daikin.co.uk/VRV5HR** to learn more about the VRV 5 Heat Recovery unit.

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