DAIKIN

VRV 5

R-32 BLUEVOLUTION

Decarbonisation of buildings made easy: **Benefit from leading VRV 5 technology**

VRV 5 S-series

VRV 5 Heat Recovery

VRV 5 Heat Pump

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 CO2 footprint of buildings**, whether they are new builds or renovation.

We continuously develop products with lower CO_2 footprint

We maximise real life seasonal efficiency, delivered in a transparent and trustworthy way

We reuse materials where possible, including refrigerants

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.

We help to make the right choice based on the total lifecycle impact of the solutions

Our team of experts provide in-depth knowledge in the use of EPDs, green building schemes, etc.

AI predictive monitoring of our systems, keeps running costs low and maximises uptime

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.

With our wide range of reliable solutions, our experts can meet even the most complex demands

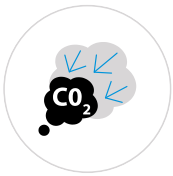
Making fresh air supply and filtration an integral part of our solution ensures maximum well being

Our solutions are in line with or ahead of legislation, proving you complete peace of mind

Benefits of R-32

Already used on large scale, R-32 can be implemented today and make a significant step towards decarbonising buildings.

- **Lower Global Warming Potential (GWP)**: only 1/3rd of R-410A
- **Lower refrigerant charge**: up to 15% less compared to R-410A
- **Higher energy efficiency**, greatly reducing the indirect CO_2 eq. impact
- **Single component refrigerant**, easy to handle and recycle.



Ahead of the new F-gas regulation

- All VRV 5 investments are fully future-proof, providing the ultimate solution for decarbonising buildings today.

2024 F-gas regulation timeline (until review date 2030)

Review date: re-evaluation of current phase-down scheme and if further exemptions are needed

2024	2025	2026	2027	2028	2029	2030	2031	2032
No GWP limit		R-410A	R-32			Max. GWP: 750*	R-32	

* With safety exemptions
Confirmed timings considering available quota

Servicing of existing equipment remains possible for the entire lifetime of the products

Benefits of VRV systems [1]

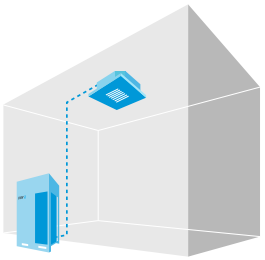
VRV systems offer buildings maximum design flexibility, low running costs and high comfort thanks to the advantages of direct expansion (DX) systems:

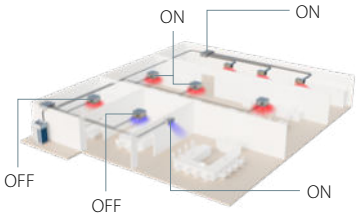
More responsive

- **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)[1]

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





Precise zone control:

- Only provide heating or cooling **where needed**
- **High comfort levels**: Individual control and simultaneous cooling and heating for perfect personal environment

Integrated building solution

- Fresh air solution with energy recovery, air purification, humidification and air discharge temperature control
- Smart central control and energy optimisation via the cloud

Decarbonisation made easy

Leading sustainability

Market-leading seasonal efficiency

- SCOP up to 200.5%
- SEER up to 324.5%
- Tested with real life indoor units

Full transparency of total life cycle impact

- The available EPD certification outlines the environmental impact of VRV 5 over its lifetime
- Ideal for green building certification

Reduced direct CO_2 impact by 71% compared to R-410A systems

- 68% lower Global Warming Potential
- 15% less refrigerant charge
- Single component refrigerant
- Reduced frequency of F-gas inspections

For detailed information on the specifications of a particular range, please consult the product pages in this brochure.

A VRV 5 system for every VRV application

- Unparallelled outdoor unit range
- 4 different ranges
- Capacity from 12.1 up to 87.5 kW

12.1kW ⟷ 78.5kW

14.2kW ⟷ 87.5kW

VRV 5 S-series | VRV 5 Heat Recovery | VRV 5 Heat Pump

Versatile

Wide operation range

- Down to -20°C in heating
- Up to +52°C in cooling

Wide piping flexibility to tackle any VRV application

- 165m longest length
- 90m height difference
- 1,000m total length
- Compatible with Tightfit, fireless copper pipe connector

5 low sound steps

- Sound pressure down to 39 dB(A)
- Increased installation space flexibility
- Easier project design
- Meet local noise regulation requirements out-of-the-box

Continuous heating during defrost

- Ideal for monovalent heating
- Available on all multi combination models

Unique Shîrudo Technology provides full peace of mind out of the box

- No need for complex calculations to select safety measures
- No additional installation and commissioning work
- No visual impact of additional sensors etc.
- No additional work and considerations in case of layout changes
- No periodic safety checks

Check out the Shîrudo Technology video!

What's included in Shîrudo Technology?

- **Complete peace of mind** as all refrigerant control measures are factory-integrated, ensuring compliance to the IEC60335-2-40 product standard, 3rd party certified by a Notified Body

Leak detection sensor in every indoor unit

Audible & visual alarm in Madoka controller

Shutoff valves in the outdoor unit or SV box

Specially developed algorithms

- Full **validation** of your project via our Xpress software

Widest R-32 portfolio

Match any application

Widest range of dedicated R-32 indoor units on the market

- Meet any comfort and aesthetical demand
- 11 unit models in 96 variations
- Capacities from 1.1 kW in cooling, up to 31.5 kW in heating
- Factory integrated safety measures for complete peace of mind

Easily integrates fresh air units

- Plug & play ventilation solutions from 150 up to 140,000 m^3/h
- For indoor (in-ceiling or floor) and outdoor installation
- Wide choice of filtration options to optimise IAQ
- Offers different energy recovery, air purification, humidification and air discharge temperature control options

Connectable to all Daikin smart controls

Daikin Cloud Plus

- Smart centralised control & energy optimisation
- Predictive maintenance indicates when maintenance or replacements are needed
- Remote site access enables to optimise and monitor the system without the need for an on-site visit

Onecta app

- Intuitive control, no matter where you are

Excellent support

Wide network of experts with specialised advice

Maximise your BREEAM/LEED score with expert support from design to execution

Our WebXpress software with visual floorplan interface makes design easy and ensures compliance with product standards

Outdoor units

VRV 5 R-32 BLUEVOLUTION

Capacity class (kW)

	Model		Product name		4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	VRV indoor units	HRV units VAM	HRV units EKVDX	AHU connection	Air curtains	Remarks
	Cooling Capacity							22.4	28.0	33.5	36.4	40.0	45.0	50.4	56.0	61.5	67.4	73.5	78.5						
	Heating Capacity							25.0	31.5	37.5	41.0	45.0	50.0	56.5	63.0	69.0	75.0	82.5	87.5						
Air-cooled heat recovery	**VRV 5 heat recovery**	• Reduced CO_2 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 Shîrudo Technology • The perfect personal comfort thanks to simultaneous cooling and heating	REYA-A9 					•	•	•		•	•	•	•	•					○	○	○	○	○	
Air-cooled heat pump	**VRV 5 heat pump**	• Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 • Top sustainability over the entire lifecycle • Tackle any room thanks to Shîrudo Technology	RXYA-A 					•	•	•		•	•	•	•					○	○	○	○	○	
	VRV 5 S-series	• Reduced CO_2 equivalent thanks to the use of lower GWP refrigerant R-32 • Top sustainability over the entire lifecycle • Unique low -height single fan range • Tackle small room applications thanks to Shîrudo technology	RXYSA-AV1/AY1/A 	1~	•	•	•													○	○	○	○	○	• Standard total system connection ratio limit: 50 ~ 130%
				3~	•	•	•	•	•	•															

• Single unit, ○ Multi combination

Decarbonisation in practice

Learn how Daikin experts help customers reach their sustainability and comfort targets, while staying within budget

"A landmark project meeting the highest standards, the Meylan Arteparc sets the bar for designing future-proof buildings that consistently deliver on *energy performance and comfort*"

Arteparc office complex

Daikin VRV heat pumps contribute to low carbon footprint and is awarded with the HQE excellent label

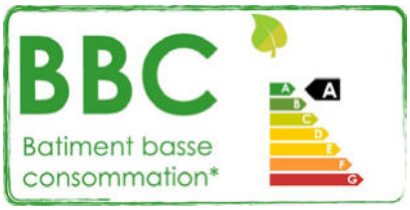
Location: Grenoble, France
Type: New built, commercial complex
Project size: 25,000m^2
Total outdoor units: 115

Challenges:

- Achieve HQE BBC (Low Carbon Building) certification label
- Provide an HVAC system to offset the increased CO_2 emissions, caused by additional use of concrete

Daikin solution:

- **Close co-operation** between design office and Daikin design support
- In-depth study to **optimise the air flows** of the full installation to maximise system performance and user experience
- Daikin's VRV 5 with R-32 was crucial to support the required offsetting of CO_2, with a **whole life carbon reduction of 27%** compared to R-410A solutions



"Daikin offers 24/7 monitoring with predictive maintenance for *complete peace-of-mind*. Issues are solved before they occur, maximising room availability and customer satisfaction."

Victoria hotel, Park Plaza

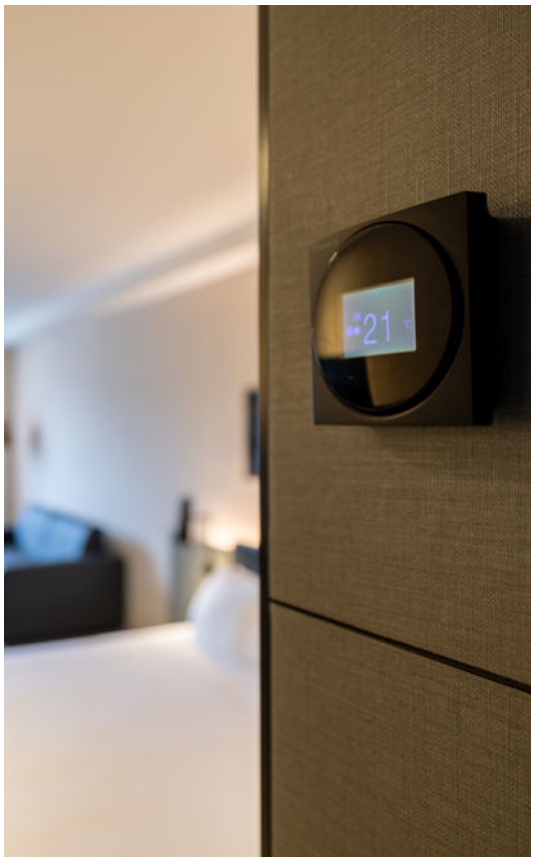
Location: Amsterdam, The Netherlands
Type: Refurbishment, Hotel
Project size: 7 floors, 150 rooms, 25m²/room
Total outdoor units: 12

Challenges:

- Provide a future proof, low carbon solution
- Keep historical building exterior intact
- Provide total peace of mind

Daikin solution:

- Implementation of **VRV 5 heat recovery**, using lower GWP refrigerant R-32 boosting efficiency thanks to the re-use of excessive heat from rooms in cooling, to heat up rooms in need of heating
- The **modular, compact design of VRV outdoor units**, combined with the small piping, made it the ideal solution for preserving the building's historical value.
- With **Shîrudo Technology** all legislative requirements are factory integrated, keeping additional design work to a minimum

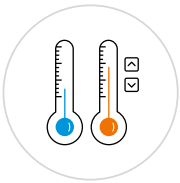


VRV 5 Heat Recovery

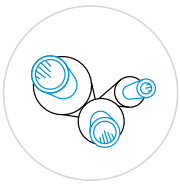
Superior solution for efficiency and comfort

- Reduced CO_2 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" heat through efficient 3-pipe heat recovery, transferring heat from areas requiring cooling to areas requiring heating and vice versa
- Tackle any room application, thanks to Shîrudo 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
- Continuous heating during defrost for multi models
- Maximum 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
- Incorporates VRV IV+ standards & technologies: Variable Refrigerant Temperature, continuous heating, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor

"Free" heating through heat recovery



Simultaneous cooling & heating for maximum comfort



3-pipe technology: up to 15% more efficient compared to 2-pipe system

Compatible to IEC60335-2-40 Ed.7, allowing even more flexible system design!

Environmental product declaration available

REYA-A9

Single Unit systems				REYA	8A9	10A9	12A9	14A9	16A9	18A9	20A9
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	8 x FXFA63A2VEB
ηs,c				%	290.8	282.6	285.3	306.1	281.0	280.6	262.2
ηs,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		mm	1,685x930x765			1,685x1,240x765			
Weight	Unit			kg	213			296		319	
Sound power level	Cooling	Nom.		dBA	78.3	78.8	82.5	78.7	83.7	83.4	87.9
Sound pressure level	Cooling	Nom.		dBA	56.3	58.0	60.8	58.1	61.4	63.0	67.0
Operation range	Cooling	Min.~Max.		°CDB	-5~46						
	Heating	Min.~Max.		°CWB	-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		mm	9.52		12.7				
	Gas	OD		mm	19.1		22.2				28.6
	HP/LP gas	OD		mm	15.9		19.1				22.2
	Total piping length	System	Actual	m	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

REYA8-12A9

Completely redesigned BSSV boxes for faster installation and easier servicing

Multi Unit systems				REYA	10A9	13A9	16A9	18A9	20A9	22A9	24A9	26A9	28A9
System	Outdoor unit module 1				REMA5A9			REYA8A9		REYA10A9	REYA8A9	REYA12A9	
	Outdoor unit module 2				REMA5A9	REYA8A9		REYA10A9	REYA12A9		REYA16A9	REYA14A9	REYA16A9
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
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	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
ηs,c				%	301.9	296.5	293.0	287.5	287.6	283.6	283.4	296.2	282.8
ηs,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		mm	9.52	12.7						15.9	
	Gas	OD		mm	19.1	22.2					28.6		
	HP/LP gas	OD		mm	15.90	19.10					22.20		
	Total piping length	System	Actual	m	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	5A9
Dimensions	Unit	HeightxWidthxDepth	mm	1,685x930x765
Weight	Unit		kg	213
Fan	External static pressure	Max.	Pa	78
Sound power level	Cooling	Nom.	dBA	78.3
Sound pressure level	Cooling	Nom.	dBA	56.3
Operation range	Cooling	Min.~Max.	°CDB	-5~46
	Heating	Min.~Max.	°CWB	-20~16
Refrigerant	Type/GWP			R-32/675.0
	Charge		kg	9.00/6.08
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)		A	20

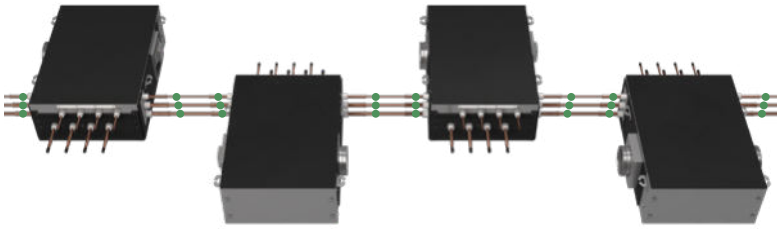
Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 130%) | Contains fluorinated greenhouse gases

NEW BS-A14AV1B9

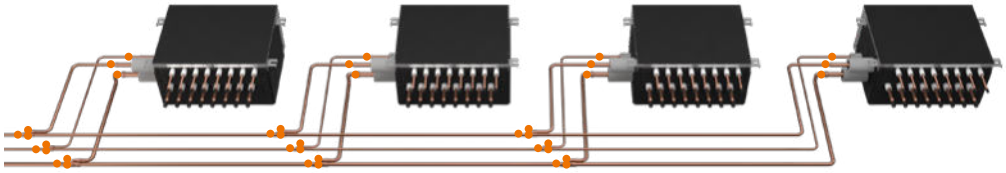
Multi branch selector (BSSV) - for VRV 5 Heat Recovery

Completely redesigned for faster installation and easier servicing

Easy installation thanks to fewer brazing points

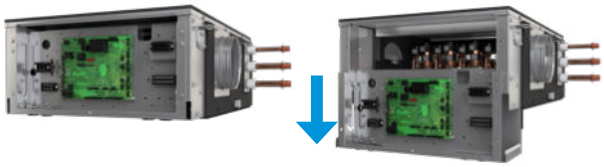


VRV 5: only 24 brazings point and no joint kits



VRV IV+: 39 brazing points and 3 joint kits

Easy servicing in false ceillings thanks to sliding down PCB



- Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- NEW No limitation on room size, thanks to Shîrudo Technology (1)
- Continued operation in case of a leak: only the specific branch is closed, maintaining full operation of the system
- 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
- 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

BS6A14AV1B9

Compatible to IEC60335-2-40 Ed.7, allowing even more flexible system design and reducing the box weight!

BS-A14AV1B9

Branch selector				BS	4A14AV1B9	6A14AV1B9	8A14AV1B9	10A14AV1B9	12A14AV1B9
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	39	55	64	81	87
Casing	Material						Galvanised steel plate		
Piping connections	Outdoor unit or Refrigerant Flow Through	Liquid	Type				Brazing connection		
			OD	mm			9.52/12.7/15.9		
		Gas	Type				Brazing connection		
			OD	mm			15.9/19.1/22.2/28.6		
		Discharge gas	Type				Brazing connection		
			OD	mm			12.7/15.9/19.1/22.2		
	Indoor unit	Liquid	Type				Brazing connection		
			OD	mm			6.35/9.52		
		Gas	Type				Brazing connection		
			OD	mm			9.52/12.7/15.9		
	Drain						VP20 (I.D. 20/O.D. 26)		
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		
System safety requirements	Duct connection diameter on unit			mm			160.0		
	Duct 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.

VRV 5 Heat Pump

Daikin's solution for comfort & low energy consumption

- Reduced CO_2 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
- Tackle small room applications without any additional measures, thanks to Shîrudo Technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- Continuous heating during defrost for multi models
- 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
- Incorporates VRV standards & technologies: Variable Refrigerant Temperature, continuous heating, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB

Wide piping flexibility to tackle any VRV application

5 low sound steps

Flexibility to take care of every room

Environmental product declaration available

RXYA-A

Single Unit systems			RXYA	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	8 x FXFA63A2VEB
ηs,c			%	287.3	279.3	278.7	302.2	276.6	271.6	257.6
ηs,h			%	161.5	170.2	176.4	168.3	167.5	172.5	162.7
SEER				7.26	7.06	7.04	7.63	6.99	6.87	6.52
SCOP				4.11	4.33	4.49	4.28	4.26	4.39	4.14
Maximum number of connectable indoor units				64 (1)						
Indoor index connection	Min.			100	125	150	175	200	225	250
	Nom.			-						
	Max.			260	325	390	455	520	585	650
Dimensions	Unit	HeightxWidthxDepth	mm	1,685 x930 x765			1,685 x1,240 x765			
Weight	Unit		kg	214			297		320	
Sound power level	Cooling	Nom.	dBA	78.3	78.8	82.5	79.5	83.7	83.4	87.9
Sound pressure level	Cooling	Nom.	dBA	56.3	58.0	60.8	59.0	61.6	63.0	67.0
Operation range	Cooling	Min.~Max.	°CDB	-5 ~46						
	Heating	Min.~Max.	°CWB	-20 ~16						
Refrigerant	Type/GWP			R-32/675.0						
	Charge		kg/tCO2Eq	9.00/6.08			10.6/7.16			
Piping connections	Liquid	OD	mm	9.52		12.70				
	Gas	OD	mm	19.1		22.2		28.6		
	Total piping length	System Actual	m	1,000 (6)						
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)		A	20	25	32		40		50

RXYA8-12A

Multi Unit systems				RXYA	10A	13A	16A	18A	20A
System	Outdoor unit module 1				RYMA5A			RXYA8A	
	Outdoor unit module 2				RYMA5A	RXYA8A		RXYA10A	RXYA12A
Capacity range				HP	10	13	16	18	20
Cooling capacity	Prated,c			kW	28.0	36.4	44.8	50.4	55.9
Heating capacity	Prated,h			kW	28.0	36.4	44.8	50.4	55.9
	Max.	6°CWB		kW	32.0	41.0	50.0	56.5	62.5
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
ηs,c				%	299.1	293.8	281.9	284.1	283.2
ηs,h				%	160.6	161.5	170.9	170.5	172.2
SEER					7.55	7.42	7.12	7.18	7.16
SCOP					4.09	4.11	4.35	4.34	4.38
Maximum number of connectable indoor units							64 (1)		
Indoor index connection	Min.				125	163	200	225	250
	Nom.						-		
	Max.				325	423	520	585	650
Sound power level	Cooling	Nom.		dBA		81.3		81.6	83.9
	Heating	Nom.		dBA		82.4		83.1	84.8
Sound pressure level	Cooling	Nom.		dBA		59.3		60.2	62.1
Piping connections	Liquid	OD		mm	9.50	12.70			
	Gas	OD		mm	19.1	22.2		28.6	
	Equalizing	OD		mm			19.1		
	Total piping length	System	Actual	m			500		
Power supply	Phase/Frequency/Voltage			Hz/V			3N~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A		40		50	

Outdoor unit module				RYMA	5A
Dimensions	Unit	HeightxWidthxDepth		mm	1,685 x930 x765
Weight	Unit			kg	214
Fan	External static pressure	Max.		Pa	78
Sound power level	Cooling	Nom.		dBA	78.3
Sound pressure level	Cooling	Nom.		dBA	56.3
Operation range	Cooling	Min.~Max.		°CDB	-5 ~46
	Heating	Min.~Max.		°CWB	-20 ~16
Refrigerant	Type/GWP				R-32/675.0
	Charge			kg/tCO2Eq	9.00/6.08
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

(1)The actual number of units depends on the connection ratio (CR) and the restrictions for the system. | Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Contains fluorinated greenhouse gases'.

VRV 5 S-series

Lower CO_2 equivalent and market-leading flexibility

- Reduced CO_2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- Low-height single fan range
- Easy to transport thanks to lightweight and compact design
- Wide access area to easily reach all key components
- Tackle small room applications without any additional measures, thanks to Shîrudo technology
- Specially designed indoor units for R-32, ensuring low sound and maximum efficiency

RXYSA-AV1_AY1

5 low sound steps

Flexibility to take care of every room

Environmental product declaration available

RXYSA-AV1

RXYSA-AY1

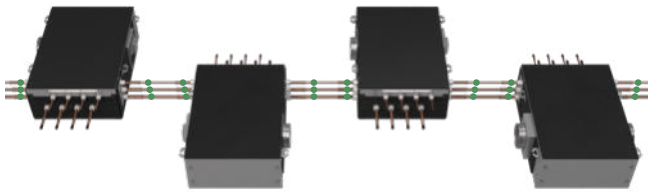
Outdoor unit				RXYSA	4AV1	5AV1	6AV1	4AY1	5AY1	6AY1	NEW 8A	NEW 10A	NEW 12A
Capacity range				HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c			kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated, h			kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Max.			kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Recommended combination					3x FXSA25A2VEB + 1x FXSA32A2VEB	4x FXSA32A2VEB	2x FXSA32A2VEB + 2x FXSA40A2VEB	3x FXSA25A2VEB + 1x FXSA32A2VEB	4x FXSA32A2VEB	2x FXSA32A2VEB + 2x FXSA40A2VEB	4x FXSA50A2VEB	4x FXSA63A2VEB	6x FXSA50A2VEB
SEER					8.2	7.7	7.6	7.9	7.4	7.3	6.4	6.9	6.5
SCOP					5.1	4.7		4.9	4.5		4.4		4.6
ηs,c				%	324.5	306.1	301.0	312.5	294.8	289.9	251.4	274.2	255.8
ηs,h				%	200.5	185.7	183.6	193.1	178.8	176.8	173.8		182.6
Dimensions	HxWxD			mm	869x1,100x460						1,430x940x320	1,615x940x460	
Weight				kg	102						144	180	
Sound power level	Cooling			dB(A)	67.0	68.1	69.0	67.0	68.1	69.0	73.2	74.0	76.1
	Heating			dB(A)	69.0	70.0	71.0	69.0	70.0	71.0	73.5	74.0	76.0
Sound pressure level	Cooling			dB(A)	49.0	51.0		49.0	51.0		58.1	57.0	60.0
Operation range	Cooling	Min °C	°CDB		-5 ~ 46						-5 ~ 52		
	Heating	Max °C	°CWB		-20 ~ 16						-20 ~ 15.5		
Refrigerant	Type/GWP				R-32/675.0						R-32/675.0		
	Charge	tCO2eq/kg		kg	3.40/2.30						5.2/3.51	7/4.73	7.1/4.79
Piping connections	Liquid OD			mm	9.52						9.5		12.7
	Gas OD			mm	15.9						19.1		22.2
	H/P/LP gas OD			mm									
	Tot. pip. length	Sys. actual		m	300						300		
Power supply	Phase/Freq./ Voltage			Hz/V	1~/50/220-240			3N~/50/380-415			3N~/50/380-415		
Current - 50Hz	Max. fuse amps (MFA)			A	32			16			25		32

Cooling capacity: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | Heating capacity: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m

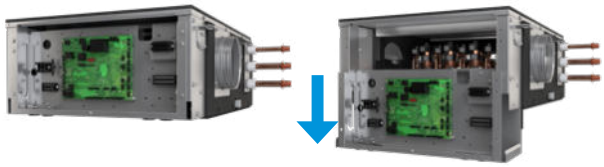
Optional Shut off valve box (SV)

Tackle even the most demanding applications with a future-proof approach

- For the vast majority of applications no SV box is needed to tackle the IEC requirements.
- In case of very small rooms an optional SV box ensures compliance to IEC60335-2-40 for any room.
- Continued operation in case of a leak: only the specific branch is closed, maintaining full operation of the system
- Fast installation thanks to Refrigerant Flow through reducing the number of brazing points and joint kits

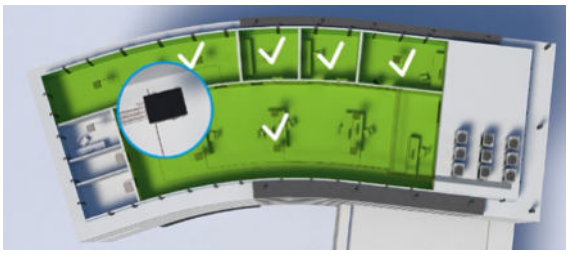


- Easy servicing in false ceilings thanks to sliding down PCB



- Limited ceiling void required
- Connect up to 250 class unit (28kW) to 1-port SV box or by combining 2 ports on multi SV box

SV4A14A



SV-A

Combination table

	RXYSA8-10-12A	RXYA-A
SV1A25A	•	•
SV4A14A	•	•
SV6A14A	•	•
SV8A14A	•	•

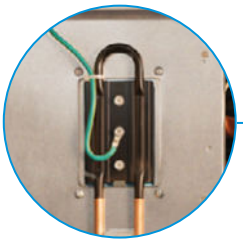
Shut off valve box					SV1A25A	SV*A14A		
Maximum number of connectable indoor units					5	20	30	40
Maximum number of connectable indoor units per branch					5			
Number of branches					1	4	6	8
Maximum capacity index of connectable indoor units					250	400	600	650
Maximum capacity index of connectable indoor units per branch					250	140		
Dimensions	Unit	HeightxWidthxDepth		mm	291x600x845		291x1,000x845	
Piping connections	Outdoor unit or Refrigerant Flow Through	Liquid	Type		Brazing connection			
			OD	mm	9.52, 12.7, 15.9			
		Gas	Type		Brazing connection			
			OD	mm	15.9, 19.1, 22.2, 28.6			
	Indoor unit	Liquid	Type		Brazing connection			
			OD	mm	6.35, 9.52			
		Gas	Type		Brazing connection			
			OD	mm	9.52, 12.7, 15.9			
	Drain				VP20 (I.D. 20/O.D. 26)			
Units connected in Refrigerant Flow Through	Maximum allowed amount of BS/SV units				4			
	Maximum total number of ports of BS/SV units				16			
	Maximum total capacity index of indoor unit				650			
Sound absorbing thermal insulation					Polyethylene foam			
System safety requirements	Duct connection diameter on unit			mm	160.0			
	Duct connection positions				Left/Right			
Power supply	Phase				1~			
	Frequency			Hz	50			
	Voltage			V	220-440			
	Maximum fuse amps (MFA)			A	6			

Contains fluorinated greenhouse gases

VRV 5 - Technical benefits

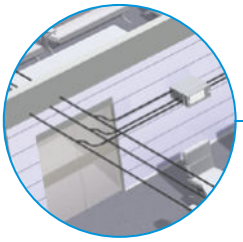
7-segment display for quick and accurate error diagnostics

- 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%

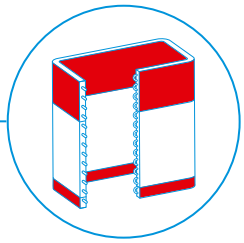


Unmatched piping flexibility

- 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 exchager

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

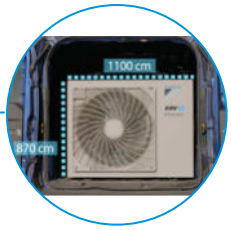
New inverter compressor

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

New casing design with 4 handles for easy carrying

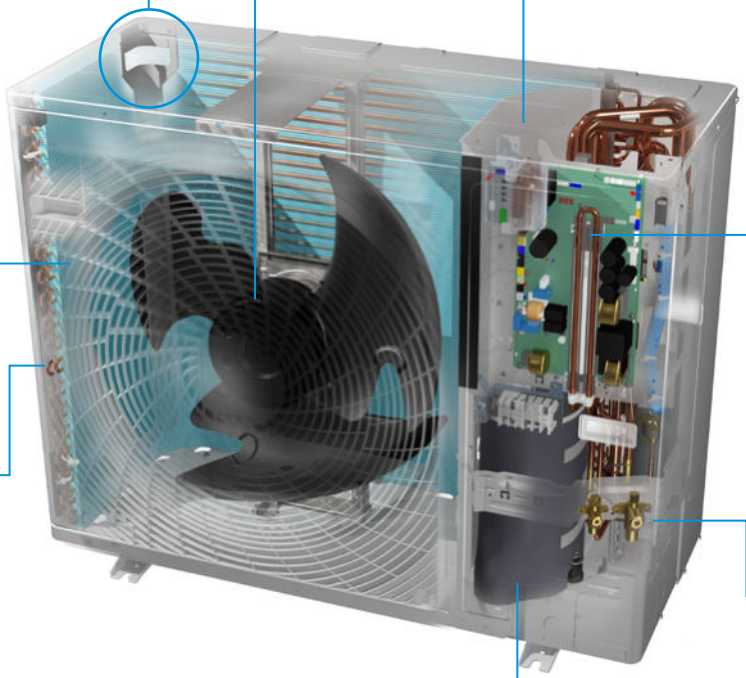
New asymmetric fan design

- Two high ESP settings
- Low sound levels



Compact dimensions

- Easy to transport thanks to compact size and single-fan design

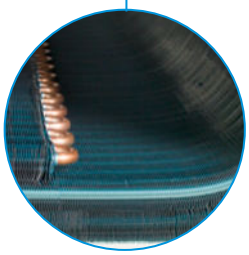


Specially designed grille

- Low pressure drop
- No risk for accidental reach of the fan

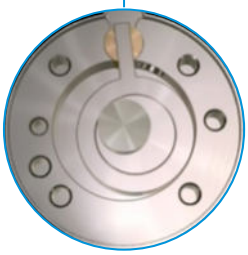
Refrigerant cooled PCB

- With integrated:
- cool/heat selector input
- 7-segment display for quicker and more precise error and setting reading



Unique 3-row heat exchanger

- Contributes to top seasonal efficiency



Unique Daikin swing compressor

- No abrasion possible
- No refrigerant leak possible
- High seasonal efficiencies

New stop valves

- Repositioned to allow front or side connection
- Brazed for increased reliability

Indoor units

VRV 5 indoor unit overview

Capacity class (kW)

Type	Model		Product name	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 maximise comfort • Flexibility to suit every room layout • Lowest installation height in the market! • Widest choice ever in decoration panel designs and colors	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 maximise comfort • Small capacity unit developed for small or well-insulated rooms • Flexibility to suit every room layout	FXZA-A		•	•	•	•	•	•									
	NEW 1-way blow cassette	**1-way blow unit for corner installation** • Compact dimensions enable installation in narrow ceiling voids • Flexible installation thanks to different air discharge options • New modern decoration panel	FXKA-A			•	•	•	•	•	•									
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 developed for small of well-insulated rooms • Reduced energy consumption thanks to DC fan motor	FXDA-A	•	•	•	•	•	•	•	•									
	Concealed ceiling unit with medium ESP	**Slimmest, most powerful 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)		•	•	•	•	•	•	•		•	•	•	•			
	Concealed ceiling unit with high ESP	**ESP up to 250 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 without false ceilings or free floor space** • Flat, stylish front panel is more easy to clean • Small capacity unit developed for small of well-insulated rooms • Reduced energy consumption thanks to DC fan motor • The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAA-A		•	•	•	•	•	•	•								
Ceiling suspended	Ceiling suspended unit	**For wide rooms without false ceilings or 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					•		•	•			•					
	UNIQUE 4-way blow ceiling suspended unit	**Unique Daikin unit for high rooms without false ceilings or 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 • Intelligent sensors save energy and maximise comfort • Flexibility to suit every room layout	FXUA-A							•		•		•					
Floor standing	NEW Concealed floor standing unit	**Ideal for installation in offices, hotels and residential applications** • Discretely concealed in the wall, leaving only the suction and discharge grilles visible • Can even be installed underneath a window • Requires very little installation space as the depth is only 200mm • High ESP allows flexible installation	FXNA-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

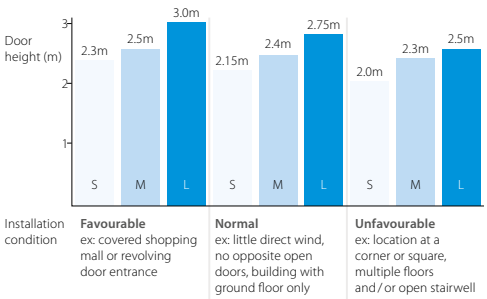
UV Streamer kit

Auto cleaning filter option

(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

Biddle air curtains NEW

Type	Product name		Model
Free-hanging	CYA-S/M/L-DK-F		**Easy wall mounted installation** • Connectable to ERQ and VRV units • Unified range for R-32 and R-410A refrigerant • Payback period of less then 1.5 years compared to installing an electric air curtain
Cassette	CYA-S/M/L-DK-C		**Mounted into a false ceiling leaving only the decoration panel visible** • Connectable to ERQ and VRV units • Unified range for R-32 and R-410A refrigerant • Payback period of less then 1.5 years compared to installing an electric air curtain
Recessed	CYA-S/M/L-DK-R		**Neatly concealed in the ceiling** • Connectable to ERQ and VRV units • Unified range for R-32 and R-410A refrigerant • Payback period of less then 1.5 years compared to installing an electric air curtain



Round flow cassette

4-way blow ceiling suspended unit

Slim concealed ceiling unit

VRV 5 indoor unit benefit overview

			Ceiling mounted cassette units			Concealed ceiling units			Wall mounted unit	Ceiling suspended units		Floor standing units
			FXFA-A	FXZA-A	NEW FXKA-A	FXDA-A	FXSA-A	FXMA-A	FXAA-A	FXHA-A	FXUA-A	NEW FXNA-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.	○			○						
	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.	○	○							NEW ○	
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 draughts. Once warmed 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 neighbourhood.	●	●		●	●		●			
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	●	●	●	●	●	●	●	●	●	●
Air treatment	UV Streamer kit	Purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygienic indoor environment	●									
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	○ (2) (Optional high efficiency filter ePM10 60%)	● (2)	● (2)	● (2)	● (2)	○ (2) Optional pre filter and high efficiency filter available (200-250)	● (2)	● (2)	● (2)	● (1)
Humidity control	Dry programme	Allows humidity levels to be reduced without variations in room temperature.	●	●	●	●	●	●	●	●	●	●
Air flow	Ceiling soiling prevention	Prevents air from blowing in the horizontal position for too long, avoiding 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 + auto	3	3 + auto	3 (50-125) 3 + auto (200-250)	3 + auto	3	3 + auto	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.	○	○	○	○	○	○	○	○	○	○
	Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.	○	○	○	○	○	○	○	○	○	○
	Infrared remote control	Starts, stops and regulates the air conditioner from a distance.	○ (1)	○ (1)		○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○
	Wired remote control	Starts, stops and regulates the air conditioner.	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)
	Centralised control	Starts, stops and regulates several air conditioners from one central point.	○	○	○	○	○	○	○	○	○	○
Other functions	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.	●	●	●	●	●	●	○	○	●	
	Multi tenant	The indoor unit's main power supply can be turned off when leaving the hotel or office building.	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	○ (4)	

● standard ○ optional

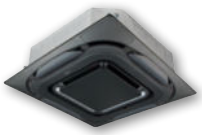
(1) Must be combined with Madoka wired remote controller.
(2) Pre filter
(3) BRC1H52W7/S7/K7 is a required option
(4) In combination with REYA/RXYA/RXYSA8-12 outdoor units (for more information contact your sales representative).

Complete indoor comfort, including pure air

The round flow cassette

- Maximum comfort thanks to **360° air discharge and intelligent sensors**
- **Widest ever choice in panels** to match any interior


Black auto cleaning panel


Black designer panel


Full white standard panel


White designer panel

- **Auto cleaning panel** keeps the filter free of dust for maximum efficiency

- **UV streamer kit**
  - Purifies the air of pollutants such as viruses, bacteria, fine dust PM1, odours, allergens, etc ensuring a healthy and hygienic indoor environment
  - Unique catch & clean approach includes an ISO ePM1 60% (F7) filter, UV-C light and Streamer technology
  - Can be **retrofitted** into existing installations

UV STREAMER

99.9%

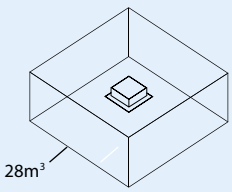
of viruses removed in 30 minutes, thanks to Daikin's unique

Catch & Clean approach

Tested at Intertek
Results based on tests performed in the laboratories of Intertek, in a 28m³ room. Daikin's Round flow cassette (FXFQ125B) removes more than 99.9% of enveloped viruses such as Corona viruses.

* Additional details regarding this function can be found in the unit technical manual.

Tested according to real life sized room

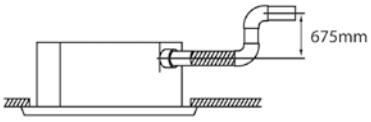


View full test report:

Round flow cassette

360° air discharge for optimum efficiency and comfort

- Optimised design for R-32 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
- UV streamer kit, purifies the air of pollutants such as viruses, bacteria, fine dust (PM1.0), odours, allergens, etc ensuring a healthy and hygenic indoor environment
- Optional fresh air intake
- Standard drain pump with 675mm lift increases flexibility and installation speed




White panel | White auto cleaning panel | Black panel | Black design panel

FXFA-A

Indoor Unit				FXFA	20A	25A	32A	40A	50A	63A	80A	100A	125A
Cooling capacity	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.017			0.018	0.023	0.028	0.045	0.078	0.103
	Heating	At high fan speed		kW	0.017			0.018	0.023	0.028	0.045	0.078	0.103
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840						246x840x840		288x840x840
Weight	Unit			kg	18			19	21		24		26
Casing	Material				Galvanised steel plate								
Decoration panel	Model				Standard panels: BYCQ140E2W1 - white with grey louvers / BYCQ140E2W1W - full white / BYCQ140E2W1B - black Auto cleaning panels: BYCQ140E2GFW1 - white / BYCQ140E2GFW1B - black Designer panels: BYCQ140E2P - white / BYCQ140E2PB - black								
	Dimensions	HeightxWidthxDepth		mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950								
	Weight			kg	Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5								
Fan	Air flow rate - 50Hz	Cooling	At high / medium high / medium / medium low / low fan speed	m^3/min	12.8/11.8/10.7/9.8/8.9			14.8/13.7/12.6/11.5/10.4	15.1/14.0/12.8/11.8/10.7	16.6/15.0/13.3/12.0/10.7	23.3/21.7/19.3/16.5/13.8	28.8/25.1/21.2/17.5/13.8	33.0/30.2/27.4/24.0/20.6
		Heating	At high / medium high / medium / medium low / low fan speed	m^3/min	12.8/11.8/10.7/9.8/8.9			14.8/13.7/12.6/11.5/10.4	15.1/14.0/12.8/11.8/10.7	16.6/15.0/13.3/12.0/10.7	23.3/21.7/19.3/16.5/13.8	29.0/25.1/21.2/17.5/13.8	33.0/30.2/27.4/24.0/20.6
Air filter	Type				Resinnet								
Sound power level	Cooling	At high fan speed		dBA	49.0			51.0		53.0	55.0	60.0	61.0
Sound pressure level	Cooling	At high / medium high / medium / medium low / low fan speed		dBA	31.0/30.0/29.0/29.5/28.0			33.0/32.0/31.0/30.0/29.0		35.0/34.0/33.0/32.0/30.0	38.0/36.0/34.0/32.0/30.0	43.0/41.0/37.0/34.0/30.0	45.0/43.0/41.0/39.0/36.0
	Heating	At high / medium high / medium / medium low / low fan speed		dBA	31.0/30.0/29.0/29.5/28.0			33.0/32.0/31.0/30.0/29.0		35.0/34.0/33.0/32.0/30.0	38.0/36.0/34.0/32.0/30.0	43.0/41.0/37.0/34.0/30.0	45.0/43.0/41.0/39.0/36.0
Refrigerant	Type/GWP				R-32/675.0								
Piping connections	Liquid	OD		mm	6.35							9.52	
	Gas	OD		mm	9.52			12.70				15.90	
	Drain				VP25 (O.D. 32 / I.D. 25)								
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current - 50Hz	Maximum fuse amps (MFA)			A	6								
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB								
	Wired remote control				BRC1H52W7/S7/K7								

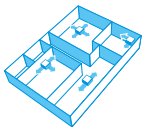
Contains fluorinated greenhouse gases

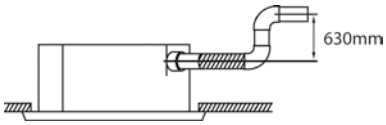
BLUEVOLUTION

Fully flat cassette

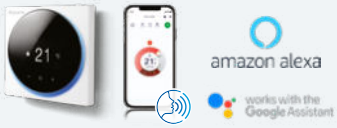
Unique design in the market that integrates fully flat into the ceiling

- Optimised design for R-32 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

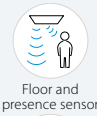




FXZA-A



BRC1H52W7, BRP069C51


Floor and presence sensor


Whisper quiet


Individual flap control


Multi tenant

FXZA-A

Indoor Unit				FXZA	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
	Heating	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575					
Weight	Unit			kg	15.5			16.5		18.5
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYFQ60C4W1W					
	Colour				White (N9.5)					
	Dimensions	HeightxWidthxDepth		mm	46x620x620					
	Weight			kg	2.8					
Decoration panel 2	Model				BYFQ60C4W1S					
	Colour				SILVER					
	Dimensions	HeightxWidthxDepth		mm	46x620x620					
	Weight			kg	2.8					
Decoration panel 3	Model				BYFQ60B3W1 + wire harness EKRS23					
	Colour				WHITE (RAL9010)					
	Dimensions	HeightxWidthxDepth		mm	55x700x700					
	Weight			kg	2.7					
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
		Heating	At high / medium / low fan speed	m^3/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
Air filter	Type				Resin net					
Sound power level	Cooling	At high fan speed		dBA	49		50	51	54	60
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
	Heating	At high / medium / low fan speed		dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Refrigerant	Type/GWP				R-32/675.0					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52				12.70	
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	6					
Control systems	Infrared remote control				BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530W (standard panel) (1)					
Control systems	Wired remote control				BRC1H52W7/S7/K7					

Dimensions do not include control box | (1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

Ceiling mounted corner cassette

1-way blow unit for corner installation

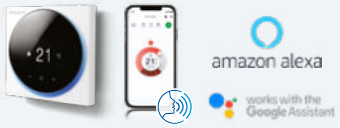
- Optimised design for R-32 refrigerant
- Compact dimensions enable installation in narrow ceiling voids (only 200mm high)
- NEW New modern decoration panel
- NEW The air is comfortably distributed upwards and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Optional fresh air intake
- Standard drain pump increases flexibility and installation speed

New design!

Vertical auto swing

Multi tenant

FXKA-A



BRC1H52W7, BRP069C51

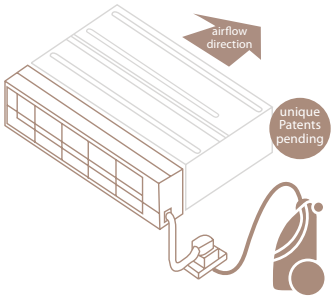
FXKA-A

Indoor Unit				FXKA	20	25	32	40	50	63
Cooling capacity	Total capacity	At high fan speed		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed		kW	2.5	3.2	4	5	6.3	8
Power input - 50Hz	Cooling	At high fan speed		kW	0.024	0.024	0.033	0.038	0.055	0.118
	Heating	At high fan speed		kW	0.024	0.024	0.033	0.038	0.055	0.118
Dimensions	Unit	HeightxWidthxDepth		mm	200x840x470			200x1,240x470		
Weight	Unit			kg	17	17	18	23	23	23
Casing	Material				Galvanised steel plate					
Decoration panel	Model				BYK32G			BYK63G		
	Dimensions	HeightxWidthxDepth		mm	80x950x550			80x1,350x550		
	Weight			kg						
Fan	Airflow rate	Cooling	At high / medium / low fan speed	m^3/min	7.1/6/5		8.5/7.3/6	12.9/11/9.1	15.5/13.2/11	21.5/17/14.1
Air filter	Type				Resin net					
Sound power level	Cooling	At high / medium / low fan speed		dBA	46.0/43.5/41.0		50.5/48.5/46.5	52.5/50.0/48.0	57.0/52.5/50.0	61.5/57.0/52.5
	Heating	At high / medium / low fan speed			50.0/46.0/41.5		52.5/49.5/47.0	53.0/50.5/48.0	58.0/53.0/50.5	63.5/58.0/53.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	32.0/27.5/22.5		37.0/34.0/31.5	38.5/34.5/31.5	42.0/38.0/34.5	48.5/43.5/38.5
	Heating	At high / medium / low fan speed		dBA	36.0/31.0/25.5		39.0/35.5/32.5	39.5/36.0/32.5	44.0/39.5/36.0	49.0/44.0/39.5
Refrigerant	Type/GWP				R-32/675					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.52				12.7	
	Drain				VP25 (O.D. 32/I.D. 25)					
Power supply				Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	6					

Contains fluorinated greenhouse gases

Auto cleaning filter for concealed ceiling units

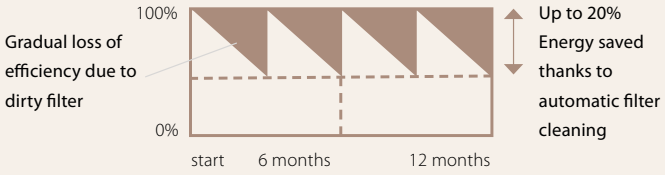
The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs



Reduce running costs

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

Efficiency profile change for duct indoor unit during operation



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

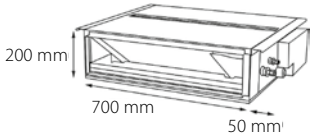
	BAE20A62	BAE20A82	BAE20A102
Height (mm)	210		
Width (mm)	830	1,030	1,230
Depth (mm)	188		

Slim concealed ceiling unit

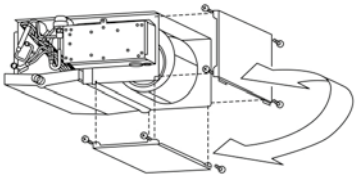
Slim design for flexible installation

- Optimised design for R-32 refrigerant
- 15 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

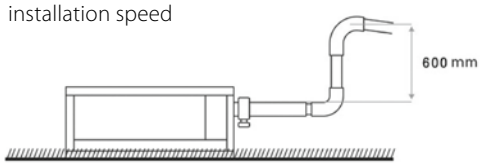
Serie A (15, 20, 25, 32)

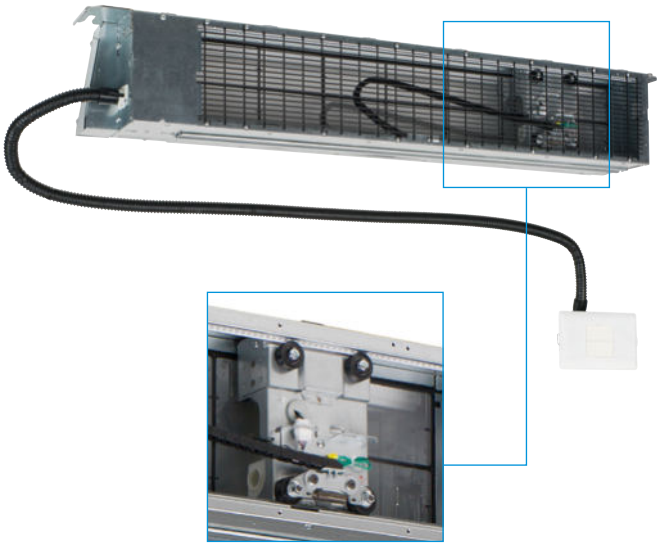


- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- Discreetly concealed in the wall: only the suction and discharge grilles are visible
- Optional auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter 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





Auto cleaning filter option

FXDA-A

Indoor Unit				FXDA	10A	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	1.10	1.70	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed		kW	1.30	1.90	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.026	0.035	0.030		0.035	0.038	0.049	0.058
	Heating	At high fan speed		kW	0.026	0.035	0.030		0.035	0.038	0.049	0.058
Required ceiling void >				mm	240							
Dimensions	Unit	HeightxWidthxDepth		mm	200x750x620					200x950x620		200x1,150x620
Weight	Unit			kg	22.0		23.0			26.5		30.5
Casing	Material				Galvanised steel							
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	5.2/4.9/4.7	6.5/6.2/5.8	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		Heating	At high / medium / low fan speed	m^3/min	5.2/4.9/4.7	6.5/6.2/5.8	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	External static pressure - 50Hz	Factory set / High		Pa	10/30					15/44		
Air filter	Type				Removable / washable							
Sound power level	Cooling	At high fan speed		dBA	48	50	51			52	53	54
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	29.0/28.0/26.0	32.0/31.0/27.0	33.0/31.0/27.0			34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
	Heating	At high / medium / low fan speed		dBA	29.0/28.0/26.0	32.0/31.0/27.0	33.0/31.0/27.0			34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
Refrigerant	Type/GWP				R-32/675.0							
Piping connections	Liquid	OD		mm	6							
	Gas	OD		mm	9.52					12.70		
	Drain				VP20 (I.D. 20/O.D. 26)							
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220							
Current - 50Hz	Maximum fuse amps (MFA)			A	6							
Control systems	Infrared remote control				BRC4C65 (1)							
	Wired remote control				BRC1H52W7/S7/K7							

(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

Concealed ceiling unit with medium ESP

Slimmest, most powerful medium static pressure unit on the market

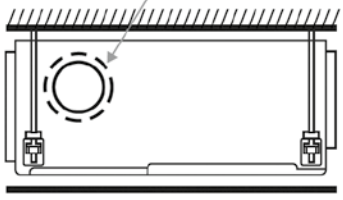
- Optimised design for R-32 refrigerant
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge

245 mm 

- 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
- Discreetly 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

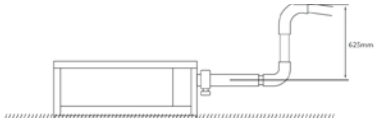
Fresh air intake opening in casing

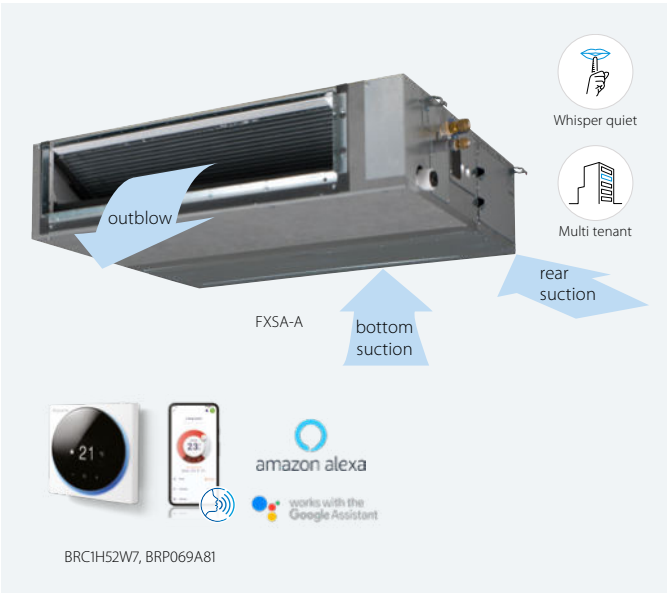
Fresh air intake position



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

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





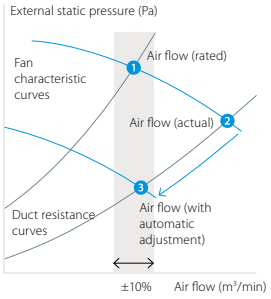
BRC1H52W7, BRP069A81

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



FXSA-A

Indoor Unit				FXSA	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00
Power input - 50Hz	Cooling	At high fan speed		kW		0.046		0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272
	Heating	At high fan speed		kW		0.046		0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272
Dimensions	Unit	HeightxWidthxDepth		mm		245x550x800			245x700x800		245x1,000x800		245x1,400x800		245x1,550x800
Weight	Unit			kg		23.5		24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material								Galvanised steel plate						
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	8.7/7.5/6.5	9.0/7.5/6.5		9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
		Heating	At high / medium / low fan speed	m^3/min	8.7/7.5/6.5	9.0/7.5/6.5		9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	42.5/34.0/28.0
	External static pressure - 50Hz	Factory set / High		Pa		30/150						40/150		50/150	
Air filter	Type								Resin net						
Sound power level	Cooling	At high fan speed		dBA		54		55	60		59	61		64	
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	29.5/28.0/25.0	30.0/28.0/25.0		31.0/29.0/26.0	35.0/32.0/29.0		33.0/30.0/27.0	35.0/32.0/29.0	36.0/34.0/31.0	39.0/36.0/33.0	41.5/38.0/34.0
	Heating	At high / medium / low fan speed		dBA	31.5/29.0/26.0	32.0/29.0/26.0		33.0/30.0/27.0	37.0/34.0/29.0		35.0/32.0/28.0	37.0/34.0/30.0	37.0/34.0/31.0	40.0/37.0/33.0	42.0/38.5/34.0
Refrigerant	Type/GWP								R-32/675.0						
Piping connections	Liquid	OD		mm					6.35					9.52	
	Gas	OD		mm			9.52			12.70				15.90	
	Drain								VP20 (I.D. 20/O.D. 26), drain height 625 mm						
Power supply	Phase/Frequency/Voltage			Hz/V					1~/50/60/220-240/220						
Current - 50Hz	Maximum fuse amps (MFA)			A					6						
Control systems	Infrared remote control								BRC4C65 / BRC4C66 (1)						
	Wired remote control								BRC1H52W7/S7/K7						

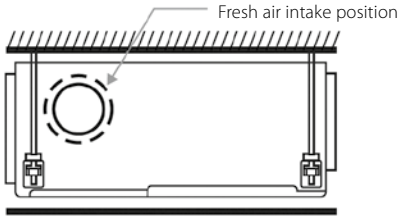
(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

Concealed ceiling unit with high ESP

Ideal for large sized spaces ESP up to 250 Pa

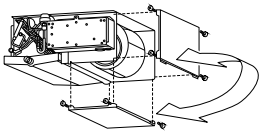
- Optimised design for R-32 refrigerant
- High external static pressure up to 250Pa facilitates extensive duct and grille network
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discreetly concealed in the wall: only the suction and discharge grilles 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

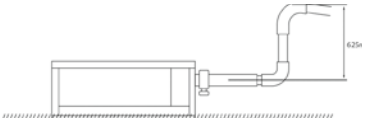


* Brings in up to 10% of fresh air into the room

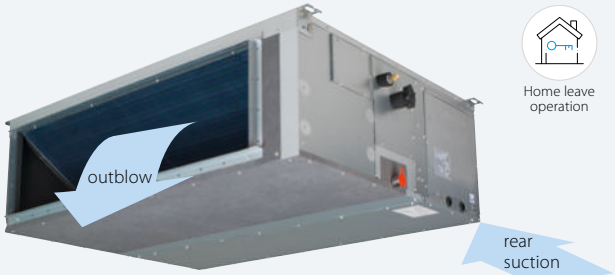
- Flexible installation, as the air suction direction can be altered from rear to bottom suction (50-125 class)



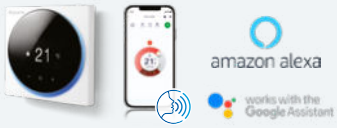
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



- Large capacity unit: up to 31.5 kW heating capacity



FXMA200-250A



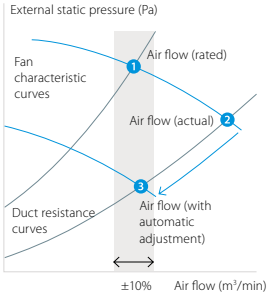
BRC1H52W7, BRP069C51

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



FXMA-A

Indoor Unit				FXMA	50A	63A	80A	100A	125A	200A	250A
Cooling capacity	Total capacity	At high fan speed		kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0
	Nom.			kW			-			22.4	28.0
Heating capacity	Total capacity	At high fan speed		kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5
	Nom.			kW			-			25.0	31.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.125	0.140	0.198	0.191	0.254	0.54	0.65
	Heating	At high fan speed		kW	0.125	0.140	0.198	0.191	0.254	0.54	0.65
Required ceiling void >				mm			350			-	
Dimensions	Unit	HeightxWidthxDepth		mm		300x1,000x700		300x1,400x700		470x1,490x1,100	
Weight	Unit			kg		35		46		105	115
Casing	Material						Galvanised steel plate				
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	18.0/16.5/15.0	19.5/17.5/16.0	25.0/22.5/20.0	32.0/27.0/23.0	36.0/30.0/26.0	62/48/41	74/64/52
		Heating	At high / medium / low fan speed	m^3/min	18.0/16.5/15.0	19.5/17.5/16.0	25.0/22.5/20.0	32.0/27.0/23.0	36.0/30.0/26.0	62/48/41	74/64/52
	External static pressure - 50Hz	Factory set / High / Low		Pa			100/200/-			150/250/50	
Air filter	Type						Resin net			-	
Sound power level	Cooling	At high / medium / low fan speed		dBA	61.0/60.0/58.0	64.0/61.0/59.0	67.0/64.0/62.0	65.0/61.0/56.0	70.0/66.0/62.0	75/74/72	76/75/73
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0	48/46.5/45	
	Heating	At high / medium / low fan speed		dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0	48/46.5/45	
Refrigerant	Type/GWP						R-32/675				
Piping connections	Liquid	OD		mm		6.35		9.52			
	Gas	OD		mm		12.70		15.90		19.1	
	Drain						VP25 (I.D. 25/O.D. 32)			BSP1	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/60/220-240/220			1~/50/60/220-240/220-230	
Current - 50Hz	Maximum fuse amps (MFA)			A			6				
Control systems	Infrared remote control						BRC4C65 / BRC4C66			BRC4C65	
	Wired remote control						BRC1H52W7/S7/K7				

Contains fluorinated greenhouse gases

BLUEVOLUTION

Wall mounted unit

For rooms without false ceilings or free floor space

- Optimised design for R-32 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 distributed upwards 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

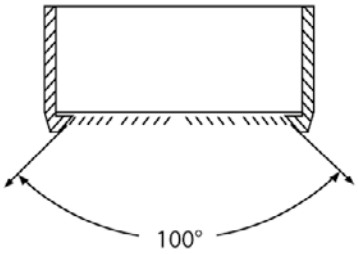
Indoor Unit					FXAA	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed			kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fan speed			kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input – 50Hz	Cooling	At high fan speed			kW	0.017	0.019	0.028	0.030	0.025	0.033	0.050
	Heating	At high fan speed			kW	0.025	0.029	0.034	0.035	0.030	0.039	0.060
Dimensions	Unit	HeightxWidthxDepth			mm	290x795x266				290x1,050x269		
Weight	Unit				kg	12				15		
Fan	Air flow rate – 50Hz	Cooling	At high/medium/ low fan speed		m^3/min	7.1/6.8/6.5	7.9/7.2/6.5	8.3/7.4/6.5	9.4/8.0/6.5	12.2/11.0/9.8	14.2/12.6/10.9	18.2/15.5/12.9
		Heating	At high/medium/ low fan speed		m^3/min	7.8/7.1/6.5	8.6/7.5/6.5	9.0/7.7/6.5	9.9/8.2/6.5	12.2/11.0/9.8	15.2/13.7/12.1	18.7/16.4/14.1
Air filter	Type					Removable / washable						
Sound power level	Cooling	At high fan speed			dBA	51.0	52.0	53.0	55.0		58.0	63.0
Sound pressure level	Cooling	At high/medium/low fan speed			dBA	32.0/30.5/28.5	33.0/31.0/28.5	35.0/32.0/28.5	37.5/33.0/28.5	37.0/35.5/33.5	41.0/38.5/35.5	46.5/42.5/38.5
	Heating	At high/medium/low fan speed			dBA	33.0/31.0/28.5	34.0/31.5/28.5	36.0/32.5/28.5	38.5/33.5/28.5	38.0/36.0/33.5	42.0/39.0/35.5	47.0/43.0/38.5
Refrigerant	Type/GWP					R-32/675.0						
Piping connections	Liquid	OD			mm	6.35						
	Gas	OD			mm	9.52				12.70		
	Drain					VP13 (I.D. 15/O.D. 18)						
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/220-240						
Current – 50Hz	Maximum fuse amps (MFA)				A	6						
Control systems	Infrared remote control					BRC7EA630 (1)						
	Wired remote control					BRC1H52W7/S7/K7						

(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

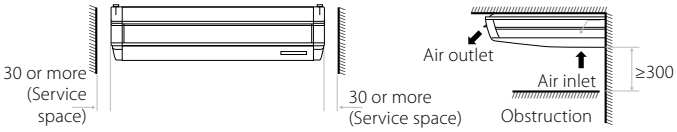
Ceiling suspended unit

For wide rooms without false ceilings or free floor space

- Optimised design for R-32 refrigerant
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle

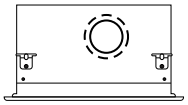


- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



- 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.

FXHA-A

Indoor Unit				FXHA	32A	50A	63A	100A
Cooling capacity	Total capacity	At high fan speed		kW	3.6	5.6	7.1	11.2
	Nom.			kW	3.6	5.6	7.1	11.2
Heating capacity	Total capacity	At high fan speed		kW	4.0	6.3	8.0	12.5
	Nom.			kW	4.0	6.3	8.0	12.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.033	0.037	0.051	0.086
	Heating	At high fan speed		kW	0.033	0.037	0.051	0.086
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690	235x1,270x690		235x1,590x690
Weight	Unit			kg	28	36		43
Casing	Material				Resin, sheet metal			
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
		Heating	At high / medium / low fan speed	m^3/min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
Air filter	Type				Resinnet			
Sound power level	Cooling	At high / medium / low fan speed		dBA	54.0/52.0/49.0	54.0/52.0/50.0	55.0/53.0/52.0	62.0/55.0/52.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0
	Heating	At high / medium / low fan speed		dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0
Refrigerant	Type/GWP				R-32/675			
Piping connections	Liquid	OD		mm	6.35			9.52
	Gas	OD		mm	9.52	12.7		15.9
	Drain				VP20			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)			A	6			
Control systems	Infrared remote control				BRC7GA56 / BRC7GA53-9			
	Wired remote control				BRC1H52W7/S7/K7			

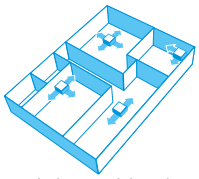
Contains fluorinated greenhouse gases

BLUEVOLUTION

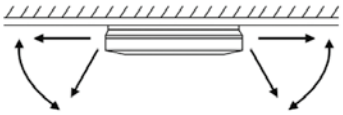
4-way blow ceiling suspended unit

Unique Daikin unit for high rooms without false ceilings or free floor space

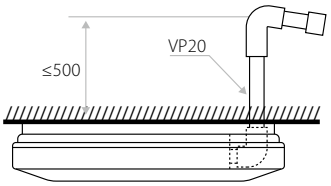
- Optimised design for R-32 refrigerant
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!

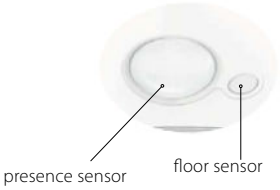


- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating.
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60° can be programmed via the remote control



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





FXUA-A

Indoor Unit				FXUA	50A	71A	100A
Cooling capacity	Total capacity	At high fan speed		kW	5.6	8.0	11.2
	Nom.			kW	5.6	8.0	11.2
Heating capacity	Total capacity	At high fan speed		kW	6.3	9.0	12.5
	Nom.			kW	6.3	9.0	12.5
Power input - 50Hz	Cooling	At high fan speed		kW	0.029	0.055	0.117
	Heating	At high fan speed		kW	0.029	0.055	0.117
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950		
Weight	Unit			kg	27		28
Casing	Material				Resin		
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	17.0/14.5/13.0	22.5/18.5/16.0	31.0/25.5/21.0
		Heating	At high / medium / low fan speed	m^3/min	17.0/14.5/13.0	22.5/18.5/16.0	31.0/25.5/21.0
Air filter	Type				Resin net		
Sound power level	Cooling	At high / medium / low fan speed		dBA	55.0/53.0/51.0	58.0/56.0/54.0	65.0/62.0/58.0
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	37.0/35.0/33.0	40.0/38.0/36.0	47.0/44.0/40.0
	Heating	At high / medium / low fan speed		dBA	37.0/35.0/33.0	40.0/38.0/36.0	47.0/44.0/40.0
Refrigerant	Type/GWP				R-32/675		
Piping connections	Liquid	OD		mm	6.35		9.52
	Gas	OD		mm	12.7		15.9
	Drain				VP20		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220		
Current - 50Hz	Maximum fuse amps (MFA)			A	6		
Control systems	Infrared remote control				BRC7CB58 / BRC7CB59		
	Wired remote control				BRC1H52W7/S7/K7		

Contains fluorinated greenhouse gases

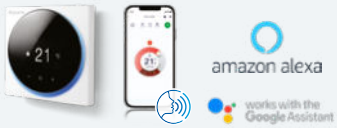
Concealed floor standing unit

Designed to be concealed in walls

- Optimised design for R-32 refrigerant
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Requires very little installation space as the depth is only 200mm

- Its low height (620 mm) enables the unit to fit perfectly beneath a window
- High ESP allows flexible installation

FXNA-A



BRC1H52W7, BRP069C51

Most versatile R-32 VRF floor standing unit in the market

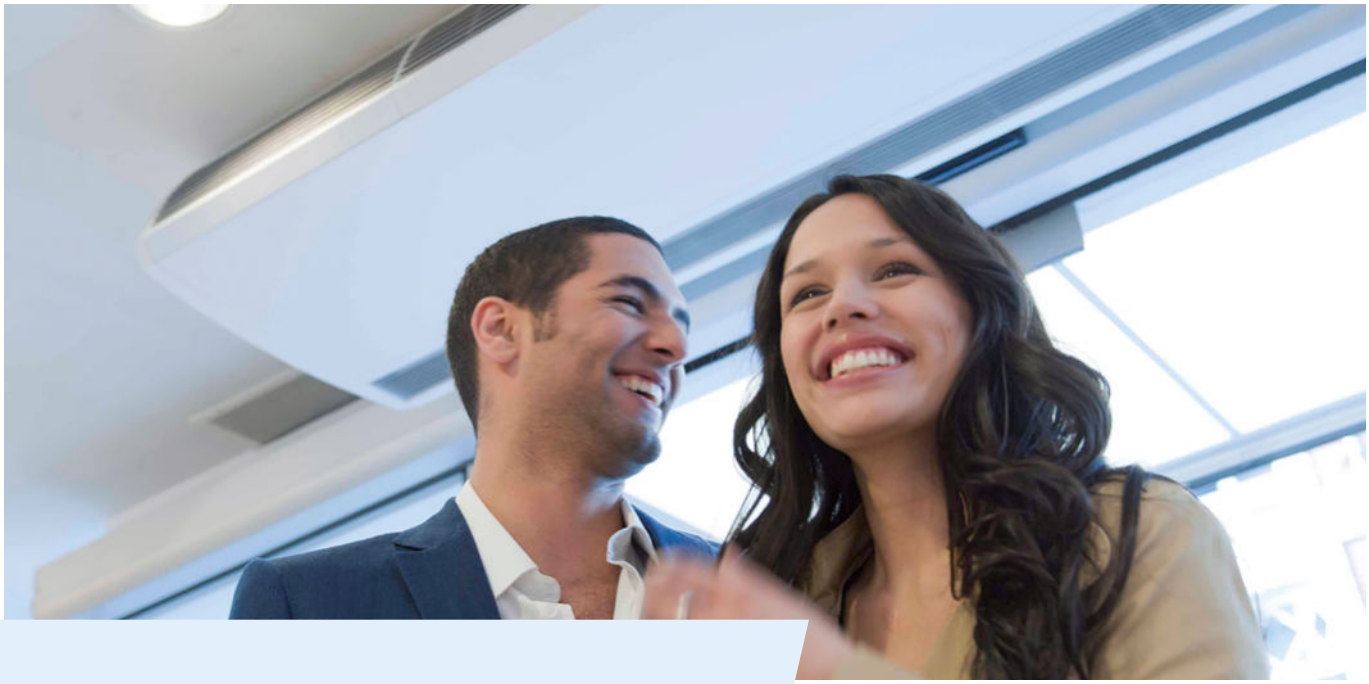
Typically, R-32 floor standing models have more stringent room size requirements than wall mounted or ceiling installed units to comply with the IEC60335-2-40 product standard.

However, with Daikin, this is no longer a limitation. By uniquely integrating the integral circulation airflow principle into our advanced Shîrudo technology, our floor standing models offer the same installation flexibility as wall mounted and cassette units.

FXNA-A

Indoor Unit				FXNA-A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.051			0.069	0.087	0.108
	Heating	At high fan speed		kW	0.051			0.069	0.087	0.108
Dimensions	Unit	HeightxWidthxDepth		mm	620/720x790x200			620/720x990x200		620/720x1,190x200
Weight	Unit			kg	23.5			27.5		32.0
Casing	Material				Galvanised steel plate					
Fan	Air flow rate - 50Hz	Cooling	At high / medium / low fan speed	m^3/min	7.4/6.4/5.4	8.4/7.4/6.4		10.2/9/7.9	12.9/11.5/10.6	16.4/14.4/12.9
		Heating	At high / medium / low fan speed	m^3/min	7.4/6.4/5.4	8.4/7.4/6.4		10.2/9/7.9	12.9/11.5/10.6	16.4/14.4/12.9
	External static pressure - 50Hz	Factory set / High		Pa	10/41.0		10/42.0	15/52.0	15/59.0	15/55.0
Air filter	Type				Resin net					
Sound power level	Cooling	At high fan speed		dBA	49	51	52.5	51.5	55.5	54.5
Sound pressure level	Cooling	At high / medium / low fan speed		dBA	28/26.5/25	30/28.5/27	31.5/30/28.5	31/29/27	35/33/31	34.5/32.5/30.5
	Heating	At high / medium / low fan speed		dBA	29.5/28/26.5	31/29.5/28	33/31.5/30	32/30/28	36/34/32	35.5/33.5/31.5
Refrigerant	Type/GWP				R-32/675					
Piping connections	Liquid	OD		mm	6.35					9.52
	Gas	OD		mm	12.7					15.9
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current - 50Hz	Maximum fuse amps (MFA)			A	16					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H52W7/S7/K7					

Contains fluorinated greenhouse gases

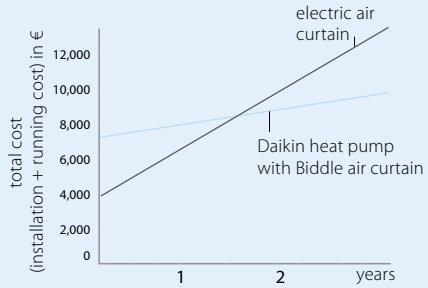


Biddle air curtains

Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

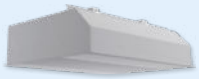
Benefits of Biddle air curtains

- Connectable to ERQ and VRV units
- Unified range for R-32 and R-410A refrigerant
- Payback period of less then 1.5 years compared to installing an electric air curtain

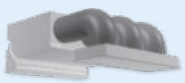


3 different models to choose from:

Free-hanging model (F):
easy wall mounted installation

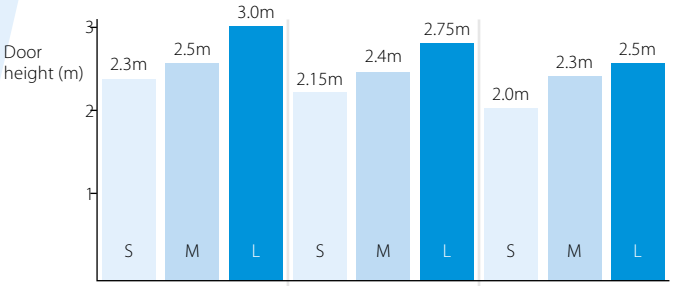


Cassette model (C):
mounted into a false ceiling leaving only the decoration panel visible



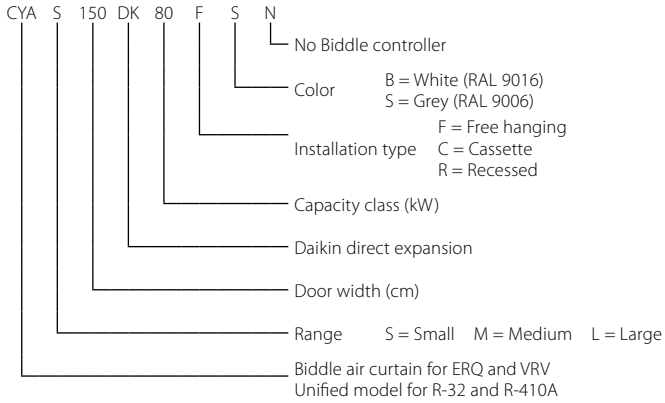
Recessed model (R):
neatly concealed in the ceiling

Select your Biddle air curtain range



Installation condition	Favourable	Normal	Unfavourable
	ex: covered shopping mall or revolving door entrance	ex: little direct wind, no opposite open doors, building with ground floor only	ex: location at a corner or square, multiple floors and / or open stairwell

Biddle air curtain nomenclature



New
R-32 range

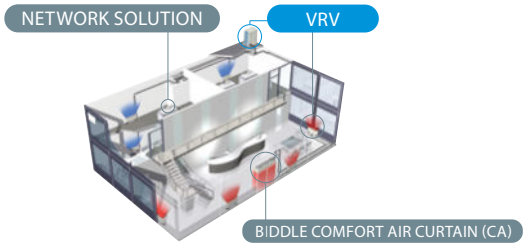
Biddle air curtain

- Connectable to ERQ and VRV DX outdoor units
- Unified model for R-32 and R-410A refrigerant
- Free-hanging model (F): easy wall mounted installation
- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- Recessed model (R): neatly concealed in the ceiling
- A payback period of less then 1.5 years compared to installing an electric air curtain
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode (in case of VRV heat recovery)
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required

CYA150DK80FSC

CYA150DK80CSC

CYA150DK80RSC



CYA

				Small				Medium			
				CYAS100DK80*	CYAS150DK80*	CYAS200DK100*	CYAS250DK140*	CYAM100DK80*	CYAM150DK80*	CYAM200DK100*	CYAM250DK140*
Heating capacity	Speed 3		kW	6.94	8.6	10.9	15.2	8.65	10.5	12.5	18.6
Power input	Fan only	Nom.	kW	0.14	0.21	0.28	0.36	0.27	0.40	0.53	0.67
	Heating	Nom.	kW	0.14	0.21	0.28	0.36	0.27	0.40	0.53	0.67
Delta T	Speed 3		K	17.7	14.6	13.9	15.5	16	12.9	12.7	13.8
Casing	Colour			B: RAL9016 / S: RAL9006				B: RAL9016 / S: RAL9006			
Dimensions	Unit	Height F/C/R	mm	270/270/270				270/270/270			
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	590/821/561				590/821/561			
Required ceiling void >	mm		mm	420				420			
Door height	Max.		m	2.3				2.5			
Door width	Max.		m	1	1.5	2	2.5	1	1.5	2	2.5
Weight	Unit		kg	56/59/61	66/83/88	83/102/108	107/129/137	57/68/66	73/88/93	94/111/117	108/136/144
Fan		Speed 3	m^3/h	1,164	1,746	2,328	2,910	1,605	2,408	2,910	4,013
Sound pressure level	Heating	Speed 3	dBA	47	49	50	51	50	51	53	54
Refrigerant	GWP			675/2,087.5				675/2,087.5			
	Type			R32/R410A				R32/R410A			
Piping connections	Liquid	OD	mm	6.35		9.52		6.35		9.52	
	Gas	OD	mm	12.7		15.9		12.7		15.9	
Air filter	Type			Vacuum cleanable filter G1							
Power supply	Frequency		Hz	50Hz				50Hz			
	Voltage		V	230V				230V			
	Maximum fuse amps (MFA)		A	16				16			

				Large			
				CYAL100DK125*	CYAL150DK200*	CYAL200DK250*	CYAL250DK250*
Heating capacity	Speed 3		kW	14.4	21.5	27.6	29.7
Power input	Fan only	Nom.	kW	0.48	0.72	0.96	1.20
	Heating	Nom.	kW	0.48	0.72	0.96	1.20
Delta T	Speed 3		K	13.8	13.7	13.2	11.4
Casing	Colour			B: RAL9016 / S: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	774/1,105/745			
Required ceiling void >	mm		mm	520			
Door height	Max.		m	3			
Door width	Max.		m	1	1.5	2	2.5
Weight	Unit		kg	76/81/83	100/118/141	126/151/155	157/190/196
Fan		Speed 3	m^3/h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	GWP			675/2,087.5			
	Type			R32/R410A			
Piping connections	Liquid	OD	mm	9,522			
	Gas	OD	mm	15.9	19.1	19.1	
Air filter	Type			Vacuum cleanable filter G1			
Power supply	Frequency		Hz	50Hz			
	Voltage		V	230V			
Current	Maximum fuse amps (MFA)		A	16			

Ventilation

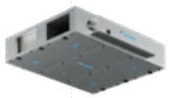
Product overview

150 | 500 | 1,000 | 2,000 | 2,500 | 3,000 | 3,500 | 4,000 | 15,000 | 25,000 | 140,000 [m³/h]

Decentralised systems

- Superior IAQ level: up to three stage filtration on supply side
- DX coil integration for a unique Daikin fresh air package
- Plug&Play control solution, for a quick and easy start-up

Compact T 200 m³/h up to 4,200 m³/h



- High efficiency counterflow heat exchanger
- VDI 6022 Compliant
- Compact design for false ceiling installation

Compact L 150 m³/h up to 4,000 m³/h

- Compact size
- High energy efficient paper recovering sensible and latent heat
- EC fan motors
- Filter clogging alarm based on pressure

VAM-FC9 / VAM-J 150 m³/h up to 2,000 m³/h

- DX coil for post-treatment of fresh air
- Split up concept increases application flexibility
- Integrates both in R-32 and R-410A VRV systems

VAM + DX coil 500 m³/h up to 2,000 m³/h

- With DX coil for post-treated fresh air
- Increased comfort
- Humidifier option

VKM-GBM 500 m³/h up to 1,000 m³/h

Centralised systems

- Fully customizable
- Daikin Digital Plug & Play Control as option
- With DX or water coil option

D-AHU PROFESSIONAL 750 m³/h up to 144,000 m³/h

- High efficiency aluminium plate heat exchanger
- Pre-configured sizes
- Plug & Play controls
- With DX or water coil option

D-AHU Modular P 500 m³/h up to 25,000 m³/h

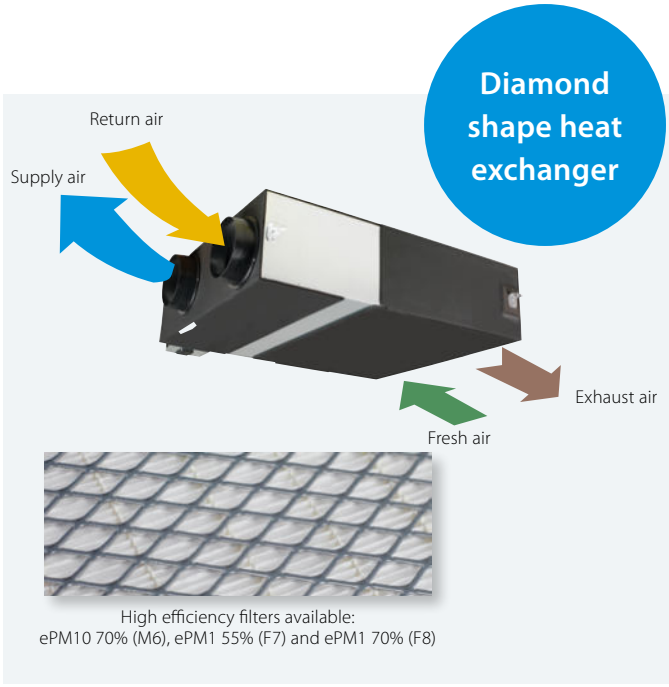
- Rotary heat exchanger (sorption and sensible technology)
- Pre-configured sizes
- Plug & Play controls
- With DX or water coil option

D-AHU Modular R 500 m³/h up to 25,000 m³/h

Energy recovery ventilation

Ventilation with heat recovery as standard

- Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO_2 sensor (J-series)
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
- Can be used as stand alone or integrated in the Sky Air or VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m^3/h
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- No drain piping needed
- Can create under/over-pressure conditions in the served room
- Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters
- VAM-J8 series are connectable to EKVDX DX coil for air processing
- Possibility of visualising CO_2 concentration when combining VAM-J8 with optional BRYMA CO_2 sensor and Madoka remote controller (with or without EKVDX)



High efficiency filters available:
ePM10 70% (M6), ePM1 55% (F7) and ePM1 70% (F8)

ErP COMPLIANT

VAM-FC9 VAM-J8

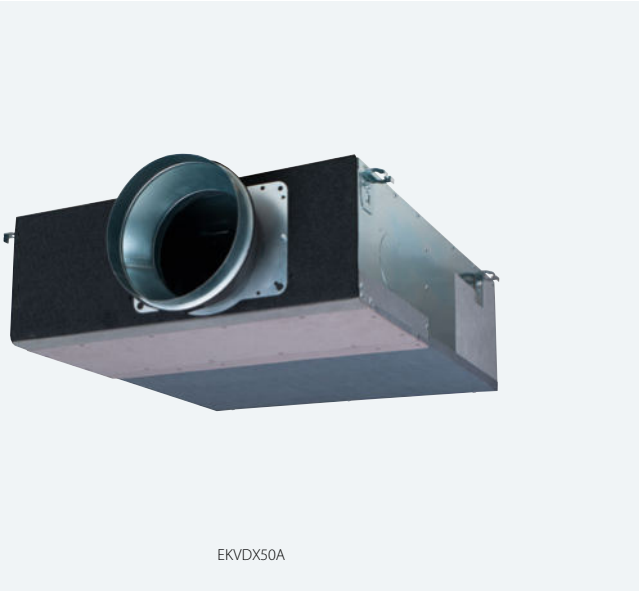
Ventilation				VAM/VAM	150FC9	250FC9	350J8	500J8	650J8	800J8	1000J8	1500J8	2000J8
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.097/0.070/0.039	0.164/0.113/0.054	0.247/0.173/0.081	0.303/0.212/0.103	0.416/0.307/0.137	0.548/0.384/0.191	0.833/0.614/0.273
	Bypass mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.085/0.061/0.031	0.148/0.100/0.045	0.195/0.131/0.059	0.289/0.194/0.086	0.417/0.300/0.119	0.525/0.350/0.156	0.835/0.600/0.239
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	77.0(1)/72.0(2)/78.3(1)/72.3(2)/82.8(1)/73.2(2)	74.9(1)/69.5(2)/76.0(1)/70.0(2)/80.1(1)/72.0(2)	85.1/86.7/90.1	80.0/82.5/87.6	84.3/86.4/90.5	82.5/84.2/87.7	79.6/81.8/86.1	83.2/84.8/88.1	79.6/81.8/86.1
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	60.3(1)/61.9(1)/67.3(1)	60.3(1)/61.2(1)/64.5(1)	65.2/67.9/74.6	59.2/61.8/69.5	59.2/63.8/73.1	67.7/70.7/76.8	62.6/66.4/74.0	68.9/71.8/77.5	62.6/66.4/74.0
	Heating	Ultra high/High/Low		%	66.6(1)/67.9(1)/72.4(1)	66.6(1)/67.4(1)/70.7(1)	75.5/77.6/82.0	69.0/72.2/78.7	73.1/76.3/82.7	72.8/75.3/80.2	68.6/71.7/77.9	73.8/76.1/80.8	68.6/71.7/77.9
Operation mode					Heat exchange mode, bypass mode, fresh-up mode								
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange								
Heat exchange element					Specially processed non-flammable paper								
Dimensions	Unit	HeightxWidthxDepth		mm	285x776x525		301x1,113x886		368x1,354x920	368x1,354x1,172		731x1,354x1,172	
Weight	Unit			kg	24.0		46.5		61.5	79.0		157	
Casing	Material				Galvanised steel plate								
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low	m^3/h	150/140/105	250/230/155	350(1)/300(1)/200(1)	500(1)/425(1)/275(1)	650(1)/550(1)/350(1)	800(1)/680(1)/440(1)	1,000(1)/850(1)/550(1)	1,500(1)/1,275(1)/825(1)	2,000(1)/1,700(1)/1,100(1)
		Bypass mode	Ultra high/High/Low	m^3/h	150/140/105	250/230/155	350(1)/300(1)/200(1)	500(1)/425(1)/275(1)	650(1)/550(1)/350(1)	800(1)/680(1)/440(1)	1,000(1)/850(1)/550(1)	1,500(1)/1,275(1)/825(1)	2,000(1)/1,700(1)/1,100(1)
	External static pressure - 50Hz	Ultra high/High/Low		Pa	90/87/40	70/63/25	90(1)/70.0/50.0(1)						
Air filter	Type				Multidirectional fibrous fleeces		Multidirectional fibrous fleeces (G3)						
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	27.0/26.0/20.5	28.0/26.0/21.0	34.5(1)/32.0(1)/29.0(1)	37.5(1)/35.0(1)/30.5(1)	39.0(1)/36.0(1)/31.0(1)	39.0(1)/36.0(1)/30.5(1)	42.0(1)/38.5(1)/32.5(1)	42.0(1)/39.0(1)/33.5(1)	45.0(1)/41.5(1)/36.0(1)
	Bypass mode	Ultra high/High/Low		dBA	27.0/26.5/20.5	28.0/27.0/21.0	34.5(1)/32.0(1)/28.0(1)	38.0(1)/35.0(1)/29.5(1)	38.0(1)/34.5(1)/30.5(1)	40.0(1)/36.5(1)/30.5(1)	42.5(1)/40.0(1)/32.5(1)	42.0(1)/39.0(1)/32.5(1)	45.0(1)/41.0(1)/35.0(1)
Operation range	Around unit			°CDB	-		0°C~40°CDB, 80% RH or less						
Connection duct diameter				mm	100	150	200		250			2x250	
Power supply	Phase/Frequency/Voltage			Hz/V	1~; 50/60; 220-240/220								
Current	Maximum fuse amps (MFA)			A	15.0		16.0						
Specific energy consumption (SEC)	Cold climate			kWh/(m^2.a)	-56.0(5)	-60.5(5)	-						
	Average climate			kWh/(m^2.a)	-22.1(5)	-27.0(5)	-						
	Warm climate			kWh/(m^2.a)	-0.100(5)	-5.30(5)	-						
SEC class					D / See note 5	B / See note 5	-						
Maximum flow rate at 100 Pa ESP	Flow rate			m^3/h	130	207	-						
	Electric power input			W	129	160	-						
Sound power level (Lwa)				dB	40	43	51	54	58		61	62	65
Annual electricity consumption				kWh/a	18.9(5)	13.6(5)	-						
Annual heating saved	Cold climate			kWh/a	41.0(5)	40.6(5)	-						
	Average climate			kWh/a	80.2(5)	79.4(5)	-						
	Warm climate			kWh/a	18.5(5)	18.4(5)	-						

(1)Measured according to JIS B 8628 | (2)Measured at reference flow rate according to EN13141-7 | (5) At reference flow rate in accordance with commission regulation (EU) No 1254/2014

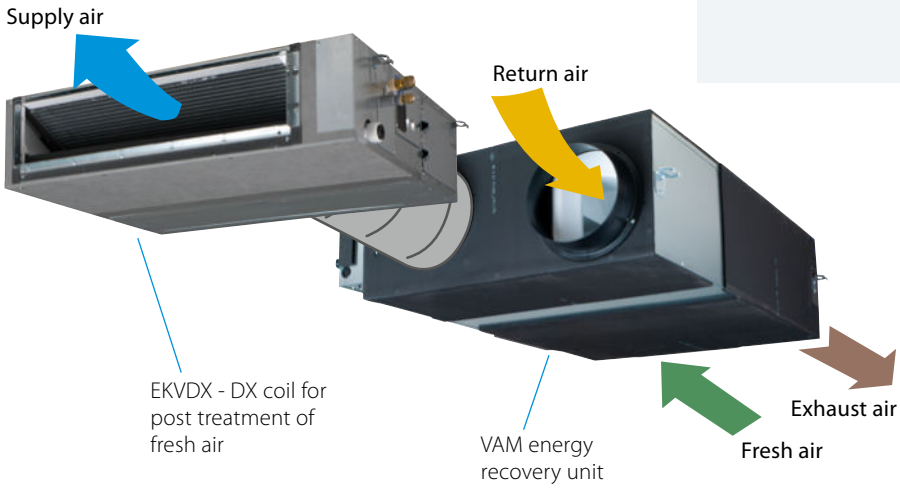
DX coil for air processing

Post heating or cooling of fresh air to lower the load on the air conditioning system

- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Maximum installation flexibility thanks to separate DX coil
- Wide range of units covering fresh air flows of 500 up to 2,000 m^3/h
- High ESP up to 150 Pa
- Can be integrated in both R-32/R-410A VRV systems



EKVDX50A



EKVDX-A

					EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A
Power input - 50Hz	Cooling	Nom.		kW	0.035	0.035	0.035	0.035
	Heating	Nom.		kW	0.035	0.035	0.035	0.035
Casing	Material				Galvanised steel plate			
Insulation material					Opcell and anti-sweat material			
Dimensions	Unit	Height		mm	250			
		Width		mm	550	700	1,000	1,400
		Depth		mm	809			
Weight	Unit			kg	19	23.4	30.1	37.7
Operation range	Around unit			°CDB	10°C~40°CDB, 80% RH or less			
	On coil temperature	Cooling	Max.	°CDB	35			
		Heating	Min.	°CDB	11			
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	12.7			
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm			
Refrigerant	Type				R410A/R32			
	GWP				2,087.5/675			
Heat exchange system					Direct expansion			
Power supply	Phase				single phase			
	Frequency			Hz	50/60			
	Voltage			V	220-240/220			

Possible Combination VAMJ8 + EKDVX					EKVDX32A + VAM500J8	EKVDX50A + VAM650J8	EKVDX50A + VAM800J8	EKVDX80A + VAM1000J8	EKVDX100A + VAM1500J8	EKVDX100A + VAM2000J8
Cooling capacity	Total (VAM+DX coil)		At ultra high fan speed	kW	5.1	7.1	8.6	9.3	15.4	18.4
	DX coil		At ultra high fan speed	kW	3.4	4.8	5.5	5.7	9.5	11.2
			At high fan speed	kW	2.7	4.1	4.4	4.5	8.8	9.2
Heating capacity	Total (VAM+DX coil)		At ultra high fan speed	kW	6.7	8.5	11	11.9	18.7	22.9
	DX coil		At ultra high fan speed	kW	4.2	5.1	6.9	7	10.8	13
			At high fan speed	kW	3.6	4.6	5.8	6.3	9.6	11.7
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high	m^3/h	500	650	800	1,000	1,500	2,000
			High	m^3/h	425	550	680	850	1,275	1,700
		Bypass mode	Ultra high	m^3/h	500	650	800	1,000	1,500	2,000
			High	m^3/h	425	550	680	850	1,275	1,700
	External static pressure - 50Hz	Maximum		Pa	81.9	73.0	133.7	106.0	153.6	92.1
		Ultra high		Pa	51.9	43.0	23.7	26.0	43.6	12.1
		High		Pa	39.0	33.9	19.4	21.4	35.1	11.9
Sound pressure level - 50Hz	Cooling		Ultra high	dBA	32	34	35.5	40.5	38.5	43.5
			High	dBA	30.5	32	34	38	37	40
	Heating		Ultra high	dBA	32.5	34.5	36	40.5	39	44
			High	dBA	31.5	32	34	38.5	37	40.5
Current	Maximum fuse amps (MFA)			A	6	6	6	6	16	16

The heat reclaim ventilation unit and the EKVDX indoor unit MUST share the same electrical safety devices and power supply

Energy recovery ventilation, humidification and air processing

VKM80-100GBM

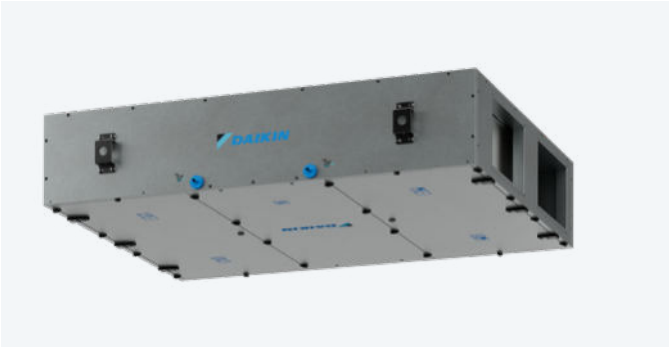
Post heating or cooling of fresh air for lower load on the air conditioning system

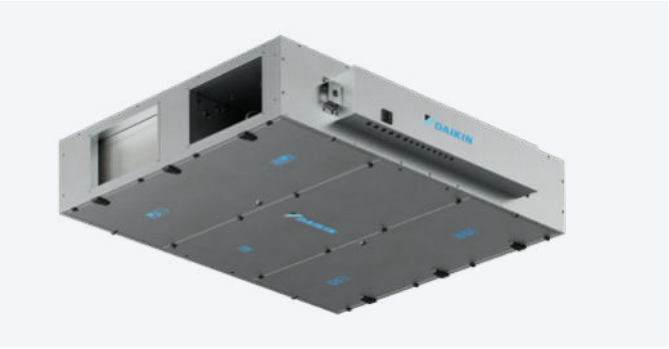
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Low energy consumption thanks to DC fan motor
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO_2 sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- Specially developed heat exchange element with High Efficiency Paper (HEP)
- Can operate in over- and under pressure

VKM-GBM

Ventilation				VKM-GBM	50GBM	80GBM	100GBM
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
Fresh air conditioning load	Cooling			kW	4.71/1.91/3.5	7.46/2.96/5.6	9.12/3.52/7.0
	Heating			kW	5.58/2.38/3.5	8.79/3.79/5.6	10.69/4.39/7.0
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	64/64/67	66/66/68	62/62/66
	Heating	Ultra high/High/Low		%	67/67/69	71/71/73	65/65/69
Operation mode					Heat exchange mode / Bypass mode / Fresh-up mode		
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange		
Heat exchange element					Specially processed non-flammable paper		
Humidifier	System				Natural evaporating type		
Dimensions	Unit	HeightxWidthxDepth		mm	387x1,764x832	387x1,764x1,214	
Weight	Unit			kg	100	119	123
Casing	Material				Galvanised steel plate		
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820
	Bypass mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820
Fan-External static pressure - 50Hz	Ultra high/High/Low			Pa	200/150/120	205/155/105	110/70/60
Air filter	Type				Multidirectional fibrous fleeces		
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	38/36/34	40/37.5/35.5	40/38/35.5
	Bypass mode	Ultra high/High/Low		dBA	39/36/34.5	41/38/36	41/39/35.5
Operation range	Around unit			°CDB	0°C~40°CDB, 80% RH or less		
	Supply air			°CDB	-15°C~40°CDB, 80% RH or less		
	Return air			°CDB	0°C~40°CDB, 80% RH or less		
	On coil temperature	Cooling/Max./Heating/Min.		°CDB	-15/43		
Refrigerant	Control				Electronic expansion valve		
	Type				R-410A		
	GWP				2,087.5		
Connection duct diameter				mm	200	250	
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	12.7		
	Water supply			mm	6.4		
	Drain				PT3/4 external thread		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current	Maximum fuse amps (MFA)			A	15		

Compact L Smart





Premium efficiency heat recovery unit

Highlights

- Connects Plug&Play into the Sky Air and VRV control network
- Easy installation and commissioning
- Internal pre-filter stage (up to ePM1 50% (F7) + ePM1 80% (F9)) making the unit reach highest indoor air quality requirements.
- Wide air flow coverage from 150m³/h to 4,000m³/h
- Exceeding ErP 2018 requirements
- Best choice when compactness is needed (only 280 mm height up to 550 m³/h)
- 50 mm double skin panel for a maximum sound and thermal insulation

EC centrifugal fan

- Maximum ESP available 600 Pa (depending on model sizes and airflow)
- Inverter driven with IE4 premium efficiency motor
- High-efficient blade profiling
- Reduced energy consumption
- Optimised SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger

- Premium quality counter flow plate heat exchanger
- Up to 91% of the thermal energy recovered
- High grade aluminum allowing optimum corrosion protection

For integration with Applied systems,
please refer to the Compact L, in the AHU chapter

D-AHU Compact L Smart			ALB02*C* (1)	ALB03*C*	ALB04*C*	ALB05*C*	ALB06*C*	ALB07*C*
Airflow	Nominal	m³/h	300	600	1,200	1,500	2,500	3,000
Electrical supply	Phase	ph	1					
	Frequency	Hz	50/60					
	Voltage	V	220/240					
	Ampere	A	16					
Main unit dimensions	Width	mm	920	1,100	1,600		2,000	
	Height	mm	280	350	415		500	
	Length	mm	1,660	1,800	2,000			
Weight unit	Net weight	kg	115	170	255	265	310	320
	Gross weight	kg	125	180	270	280	325	335
Duct dimensions		mm	250	400	500	500	700	700
		mm	150	200	300	300	400	400

(1) ALB02*C* refers to all configuration available for Compact L size 02 (Smart or Pro version and right or left handing)

Please refer to Databook or Astra selection software for more details.

Compact T Smart

Top connected Air Handling Unit

Highlights

- Duct connections are located at the top, reducing the unit's footprint
- Low power consumption and low SFP (Specific Fan Power) for a very efficient unit operation
- Superior IAQ level: up to three stage filtration on supply side (more than the 90% of PM1 is removed from outdoor air)
- Plug&Play control solution, for a quick and easy start-up
- Very compact unit, starting from 550 mm width, for an air flow up to 1,100 m^3/h

IAQ matters

An excellent IAQ improves people's performance and well-being, and decreases risk factors for various diseases. Compact T satisfies the ventilation and filtration needs of the indoor environment, guaranteeing an outstanding level of IAQ.

The future of ventilation

With its unique innovations, the Modular T is Daikin's latest solution for fresh air treatment and beyond. Thanks to its optimised design, it offers easy transport and installation in both new projects and existing buildings.

ATB-S

D-AHU Compact T Smart			ATB03*B* (1)	ATB04*B*	ATB05*B*	ATB06*B*	ATB07*B*
Airflow	Nominal	m^3/h	800	1,650	2,300	2,700	3,900
Electrical supply	Phase	ph	1				
	Frequency	Hz	50				
	Voltage	V	230				
	Max internal fuse	A	16				
Main unit dimensions	Width	mm	550	790			890
	Height	mm	1,600		1,900	1,850	2,050
	Length (2)	mm	1,580	1,650	2,170	2,620	2,950
Duct dimensions		mm	250	315	355	400	500
Weight unit	Net weight	kg	185	230	370	475	580
	Gross weight	kg	195	240	390	505	610

(1) ATB03*B* refers to all configuration available for Compact T size 03 (Smart or Pro version and right or left handing)
(2) Size 05 is provided in two sections while Size 06 and 07 are provided in three sections.

Please refer to Databook or Astra selection software for more details.

Why use DX outdoor units with Air Handling Units?

High comfort levels

- Rapid response of supply air temperature to changing loads, results in a steady indoor temperature
- VRV provides ultimate comfort with continuous heating, even during defrost

Low carbon footprint and operating costs

- DX heat pumps are highly efficient inverter units using a lower GWP refrigerant
- By integrating a VRV heat recovery system, excess heat from rooms in cooling can be reused to heat up incoming fresh air

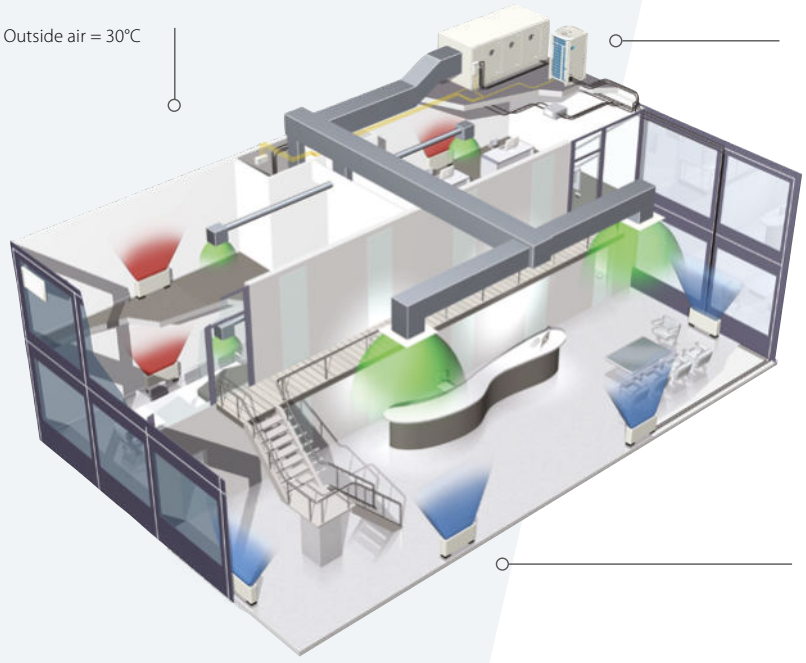
Easy design, all components integrated

- A DX system is an all-in-one system, no boilers, tanks or pumps are needed reducing the total investment cost

One-stop shop: Daikin's fresh air package

- A plug & play package with a Daikin DX outdoor unit and Daikin Air Handling Unit
- One point of contact for the design, installation and commissioning, streamlining the process

Example: total solution operation



Daikin Air Handling Unit kits for connection to DX outdoor units

R-32

NEW Expansion valve kits

- **3 new capacities** (300, 350, 400) offer a complete range of expansion valve kits **from 5 to 69.3kW**
- **Improved flexibility** thanks to combination ratio from 65% up to 110%
- Unified range connectable both to **R-32 and R-410A** systems
- Can be used in the most **extreme outdoor conditions**, down to -20°C
- F**ully compliant to IEC60335-2-40**, thanks to Shîrudo Technology

Extended operation range
-20°CWB > 52°CDB

NEW Control box

- Complete offer of **5 control possibilities**
- Daikin **integrated** or **third-party controller**
- Control of return air or fresh air supply temperature
- All **control methods** unified in **one box**
- Hinged door for **easy servicing**

Expansion valve set (EKEXVA*)

- Controls the refrigerant flow in the AHU DX coil
- Fully brazed and wired in case of a Daikin AHU

Control box (EKEACB)

- Controls the expansion valve set and outdoor unit(s) capacity
- Mounted and wired in case of a Daikin AHU

Specifications

EKEXVA – Expansion valve kit

Ventilation	EKEXVA				50	63	80	100	120	140	200	250	300	350	400	450	500
Dimensions	Unit			mm	404x217x80.5												
Weight	Unit			kg	2.9												
Operation range	On coil temperature	Heating	Min.	°CDB	10.0												
		Cooling	Max.	°CDB	35.0												
Ambient installation conditions	Min.			°CDB	-20.0												
	Max			°CDB	52.0												
Sound pressure level	Cooling	Nom.		dBA	36.5	37.5	38.6	39.5	40.5	41.1	42.5	43.5	44.3	45.1	45.6	46.1	46.5
	Nom.			dBA	24.8	25.8	26.8	27.8	28.8	29.4	30.8	31.8	32.5	33.3	33.8	34.3	34.8
Refrigerant	Type / GWP				R-32 / 675 R-410A / 2,087.5												
Piping connections	Liquid	Type		mm	Braze connection (only liquid line connected)												
		OD		mm	6.35			9.52					12.7				

EKEACB – Control box

			EKEACB
Layout			Pair | Multi | Mix
Dimensions	Unit	mm	300x400x150
Weight	Unit	kg	5.1
Ambient installation conditions	Min	°CDB	-20
	Max	°CDB	52
Power supply	Phase		1~
	Frequency	Hz	50/60
	Voltage	V	220-240/220

Click for more information on **EKEACB** or **EKEXVA** outdoor units

Air Handling Unit kits

Layout possibilities

With our extensive capacity range and various control options, we offer versatile layout possibilities to suit your application:

- **Pair layout:** one or more outdoor units combined with 1 air handling unit
- **Multi layout:** one outdoor unit combined with multiple air handling units
- **Mix layout:** one outdoor unit combined with an air handling unit AND indoor units

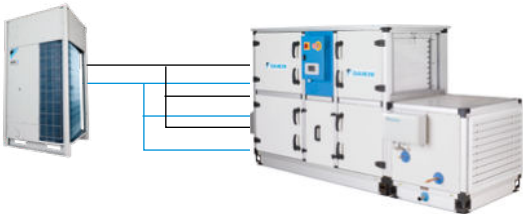
Pair layout

One ERA or VRV heat pump (system) connected to one AHU through one refrigerant circuit

- with W, X, Y, Z, Z' control
- not allowed for VRV H/R

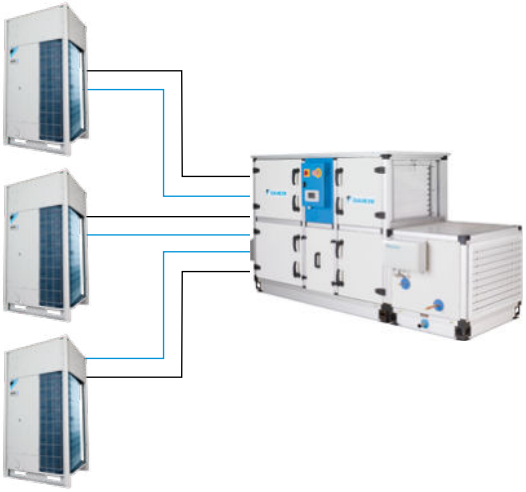
One VRV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits

- with W, X, Y control
- not allowed for VRV H/R and VRV-i



Several ERA or VRV heat pumps connected to the interlaced coil of one AHU through several refrigerant circuits

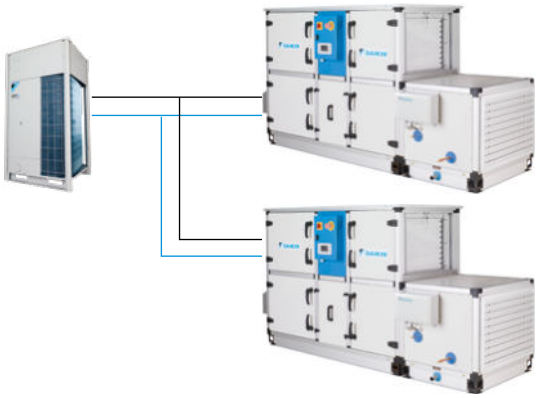
- with W, X, Y control
- not allowed for VRV H/R and VRV-i



Multi layout

One VRV heat pump connected to several AHUs

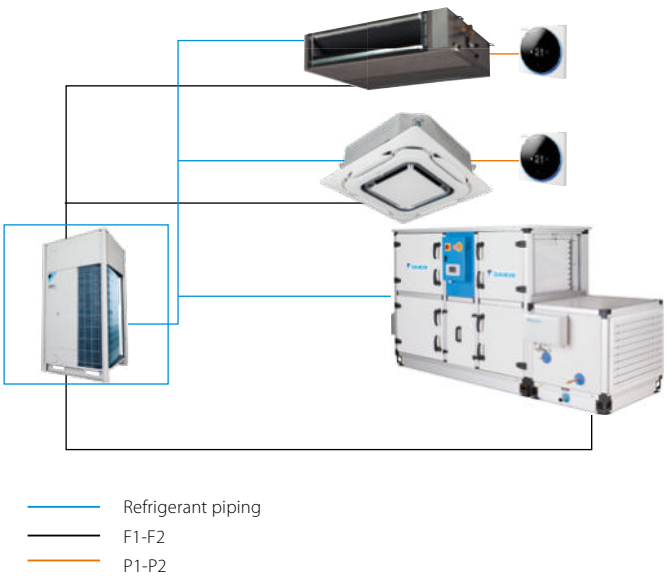
- with Z, Z' control and field supplied controls on AHU side.
- not allowed for VRV H/R
- no interlaced coil possible



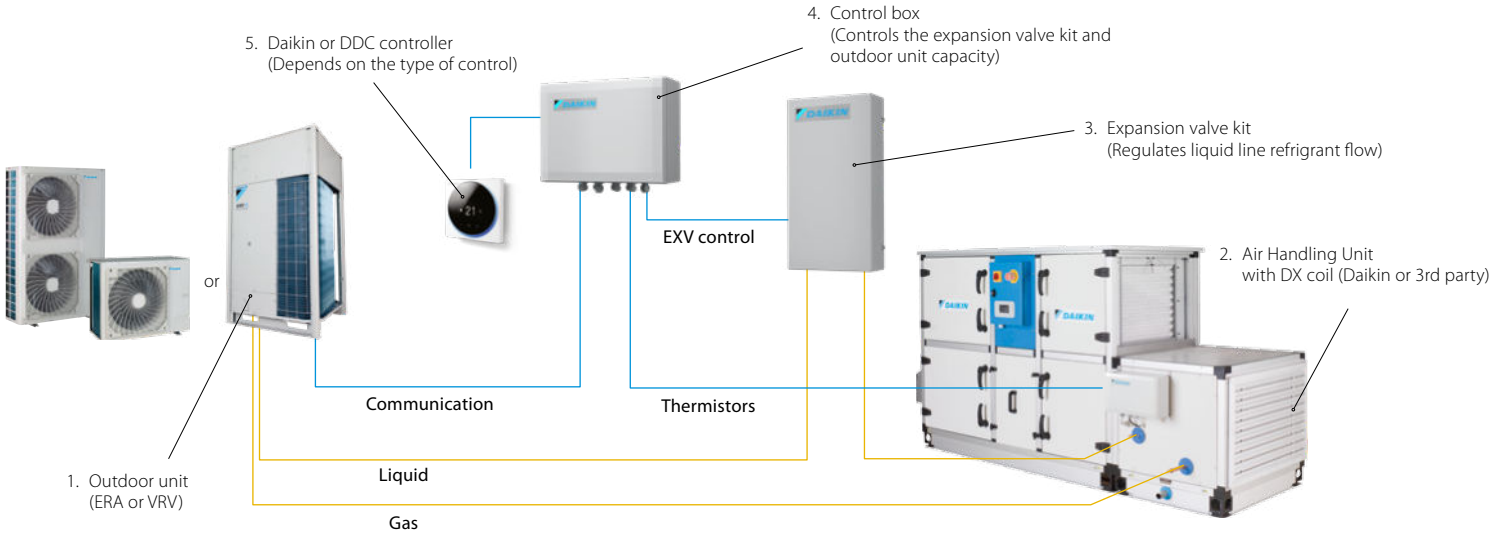
Mix layout

VRV indoor units and AHU(s) mixed in the same VRV heat pump or heat recovery system

- with Z, Z' control and field supplied controls on AHU side
- no interlaced coil possible
- hydrobox not possible



Main components with detailed piping and wiring principle



Detailed combination table

Range	Outdoor Unit	Control box	Expansion valve kits EKEXVA											
		EKEACBVE	50	63	80	100	125	140	200	250	300	350	400	450	500
ERA	ERA100A7V1B	P	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-		
	ERA125A7V1B	P	-	-	-	P(b)	P(b)	-	-	-	-	-	-		
	ERA140A7V1B	P	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-		
	ERA100A7Y1B	P	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-	-	-
	ERA125A7Y1B	P	-	-	-	P(b)	P(b)	-	-	-	-	-	-	-	-
	ERA140A7Y1B	P	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-
	ERA200AMYFB	P	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-	-
	ERA250AMYFB	P	-	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-
	ERA250AMYFB	P	-	-	-	-	-	-	P(a)	P(b)	P(b)	-	-	-	-

DX coil volume limitations when combined with ERA:
Please follow the AHU HEX volume limitations according to the table below:

Capacity class	Minimum heat exchanger volume [dm³]		Maximum heat exchanger volume [dm³]
	Pair combination (a)	Pair combination (b)	Pair combination
63	1.18	1.02	2.08
80	1.64	1.42	2.64
100	1.74	1.51	3.30
125	2.29	1.98	4.12
140	2.94	2.54	4.62
200	3.49	3.02	6.60
250	4.58	3.97	8.25
300	5.23	4.53	9.90

VRV IV & VRV IV+	H/P (RYYQ, RXYQ, RXYSQ, RXYTQ, RXYLQ, RXYS(C)Q, RWEYQ (H/P))	P/M	Pair and multi: 65% (1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	VRV-i (RKXYQ)	P(2)/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	H/R (REYQ, RWEYQ (H/R))	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
VRV 5	H/P (RXYSA, RXYA)	P/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	H/R REYA	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%

P: Pair layout - One or more outdoor units connected to an (interlaced) coil of one AHU
M: Mix or multi layout - Combination of (multiple) AHU(s) with (mix combination) or without (multi combination) VRV DX indoor(s). Only Z or Z' control possible (no interlaced coils)
(1): For 65%<CR<75% please refer to the specifically required coil size
(2): Only Z or Z' control possible (no interlaced coils)
(3): Technically is possible to connect H/R in pair combination, but there's no benefit to do it

Control systems

Connect with Daikin

Whether you're a user or installer, it's essential to interact with our systems effortlessly, from anywhere. Our interfaces provide peace of mind, ensuring your system runs at its best

White

Silver

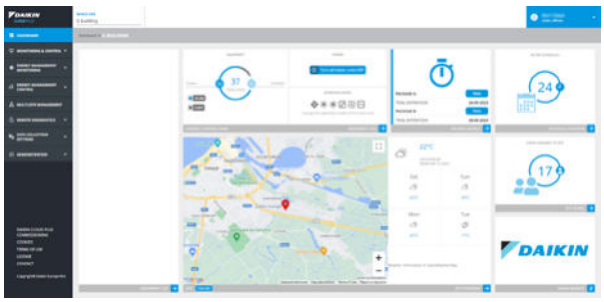
Black

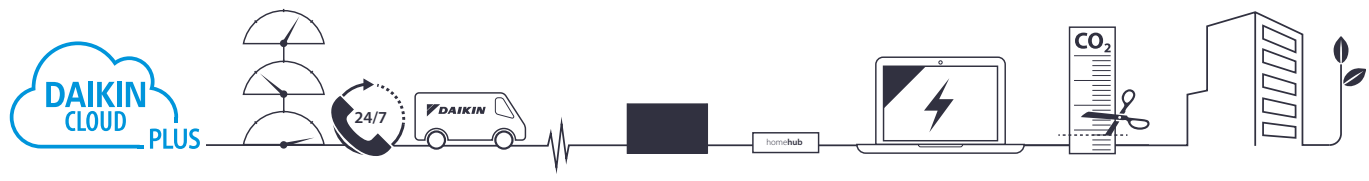
Depending on the type of user and application, Daikin develops controls and cloud services to ensure the best experience.

- For home owners, it means **app and voice control** of their home comfort.
- For hotel owners, it means easy and stylish **personal control for guests**, with an integration in hotel booking software for central control
- For facility managers, it means **cloud access** to all sites, with the possibility to benchmark and optimise performance
- For installers, it means **easy transfer of settings during commissioning**, remote retrieval of errors and preventive alerts to save time on maintenance or interventions

Our controls enable you to **connect with your customer**, save time, improve your comfort intelligently and reduce energy bills.

Remote monitoring



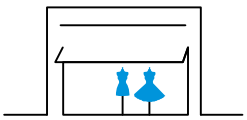


Control solutions summary

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

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

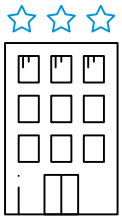
Shop

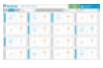


	Unit control		Integrating control				Advanced control			
										
	BRP069*	BRC1H52 W7/S7/K7	RTD-20	EKMBPP1A	KLIC DI V2	EKMBDXB	DCC601A51	DCM601B51	DGE601A51	DGE602A51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s)	1 iTM for 64 indoor unit(s) (groups) (1)	Up to 512 units with extension modules via Daikin Cloud Plus	Max 64 units via Daikin Cloud Plus
Automatic control of A/C	•	•	•	•	•	•	•	•	•	•
Limit control possibilities for shop staff	•	•	•	•	•	•	•	•	•	•
Create zones within the shop			•				•	•	•	•
Interlock with eg. Alarm, PIR sensor			•				• (limited)	•	•	•
Integration into smart home systems	• (5)									
Integrate Daikin units into existing BMS via Modbus			•	•		•				
Integrate Daikin units into existing BMS via KNX					•					
Integrate Daikin units into existing BMS via HTTP								•		
Monitor energy consumption	• (3)							•	•	•
Advanced energy management								•	•	•
Allows free cooling								•		
Voice control	• (4)									
Integrate Daikin products cross pillars into Daikin mini- BMS								•	•	
Integrate third party products into Daikin mini-BMS								•	•	•
Online control	•							• (2)	•	•
Manage multiple sites									•	•

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Through own IT set-up (not Daikin cloud server) | (3) Not available on all indoors | (4) Only for BRP069C51, connection to Google Assistant and Amazon Alexa | (5) Only for BRP069C51, contact your local sales representative for an overview of available services.

Hotel

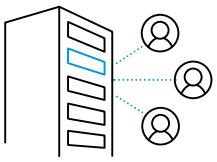


	Unit control	Integrating control		Advanced control			
							
	BRC1H52 W7/S7/K7	RTD-20	KLIC DI V2	DCM010A51	DCM601B51	DGE601A51	DGE602A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	1 interface for up to 2,500 indoor units	1 iTM for 64 indoor unit(s) (groups) (1)	Up to 512 units with extension modules via Daikin Cloud Plus	Max 64 units via Daikin Cloud Plus
Hotel guest can control & monitor basic functionalities from his room	•						
Limit control possibilities for hotel guests	•	•	•	•	•	•	•
Interlock with window contact		•			•	•	•
Interlock with key-card		•			•	•	•
Integrate Daikin units into existing BMS via Modbus		•					
Integrate Daikin units into existing BMS via KNX			•				
Integrate Daikin units into existing BMS via HTTP				•			
Integrate Daikin unit control in hotel booking software				•			
Oracle Opera PMS				•			
Monitor energy consumption					•	•	•
Advanced energy management					•	•	•
Integrate Daikin products cross pillars into Daikin mini- BMS					•	•	
Integrate third party products into Daikin mini-BMS					•	•	•
Online control					•	•	•

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems)

For more information how to apply our controllers in different applications, consult our controls application catalogue via our consulting sales corner.

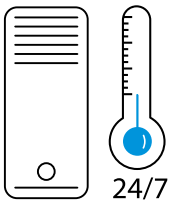
Office



	Unit control	Integrating control			Advanced control			
			 LonWorks Interface	 BACnet Interface				
	BRC1H52 W7/S7/K7	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601B51	DGE601A51	DGE602A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 unit for 32 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)	Up to 512 units with extension modules via Daikin Cloud Plus	Max 64 units via Daikin Cloud Plus
Automatic control of A/C	•	•	•	•	•	•	•	•
Centralised control for management		•	•	•	•	•	•	•
Local control for office staff	•				•	• Through web	•	•
Limit control possibilities for office staff	•	•	•	•	•	•	•	•
Integrate Daikin units into existing BMS via Modbus		•						
Integrate Daikin units into existing BMS via HTTP						•		
Integrate Daikin units into existing BMS via LonTalk			•					
Integrate Daikin units into existing BMS via BACnet				•				
Energy consumption read out	• (3)					•	•	•
Monitor energy consumption						•	•	•
Advanced energy management						• (5)	•	•
PPD software to distribute used kWh/indoor unit				• (4)		•	•	•
Integrate Daikin products cross pillars into Daikin mini- BMS						•	•	
Integrate third party products into Daikin mini-BMS						•	•	•
Online control							•	•
Manage multiple sites							•	•

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Extension (DAM411B51) needed to have up to 256 indoor unit(s) (groups), 40 outdoors | (3) Not available on all indoor units | (4) via DAM412B51 option | (5) via DCM002A51 option

Infrastructure cooling



	Unit	Integrating	Advanced
			
	BRC1H52W7/S7/K7	RTD-10	DCM601B51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•
Back-up operation	•	•	•
Duty rotation	•	•	•
Limit control possibilities in the technical cooling room	•	•	•
If room temperature above max., then show alarm & start standby unit.		•	•
If an error occurs, an alarm will be shown.	•	•	•
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	•	Via WAGO I/O

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG*/RZAG* outdoor units. | (3) See option list of indoor unit

Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their Daikin system from their smartphone.

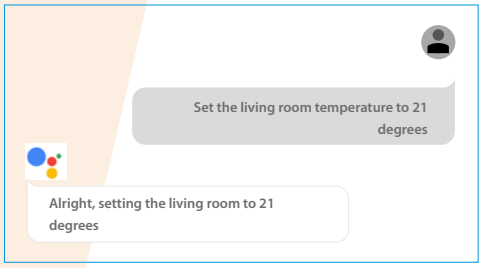
onecta

Voice control

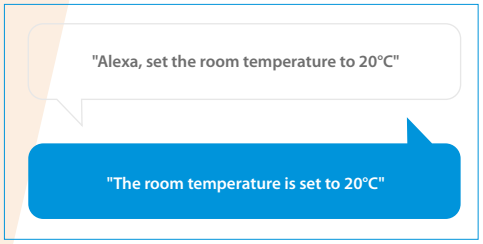
To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

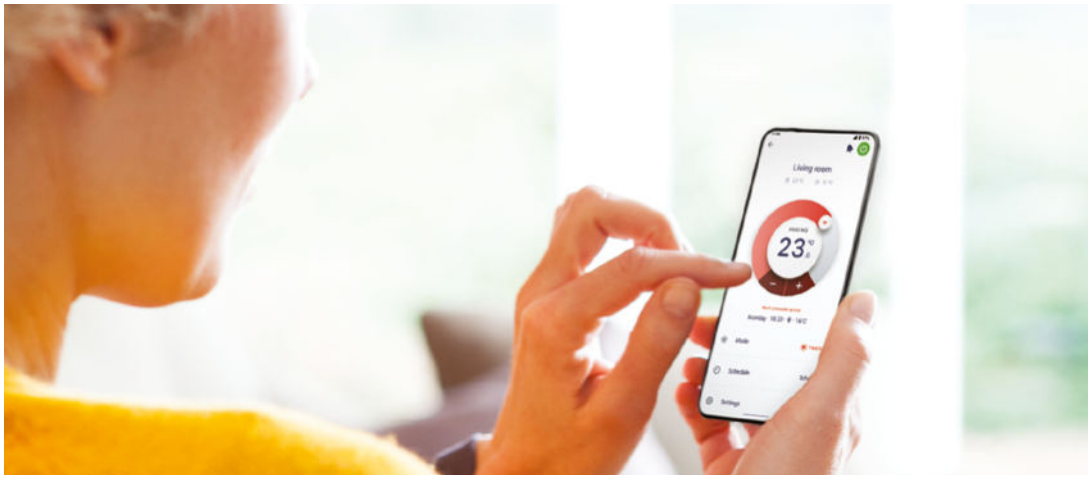
amazon alexa



Example of using the voice control via Google Assistant



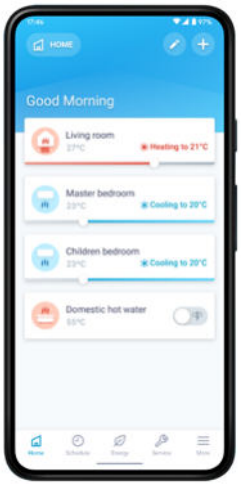
Scan the QR code to download the app now



Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- ☑ Schedule room temperature and operation mode
- ☑ Enable holiday mode to save costs



Control

Customise the system to fit your lifestyle and year-round comfort levels.

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production

Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- ☑ Check the status of the heating system
- ☑ Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.

For VRV

	Model #	WLAN
VRV 5 indoor units	FXFA-A	Optional BRP069C51 (1)
	FXZA-A	
	FXKA-A	
	FXDA-A	
	FXSA-A	
	FXMA-A	
	FXHA-A	
	FXUA-A	
	FXAA-A	
	FXNA-A	

(1) MMust be combined with BRC1H52W/S/K

For Sky Air

	Model #	WLAN
Sky Air	FDXM-F9	Optional BRP069C81 (1)
	FFA-A9	
	FBA-A(9)	
	FDA125A	
	ADEA-A	
	FAA-B	
	FHA-A(9)	
	FUA-A	
	FVA-A	
	FNA-A9	
	FCAG-B	Optional BRP069C82 (2)
	FCAHG-H	
	FDA200-250A	Optional BRP069C82 (3)

(1) Only possible in combination with wired or wireless remote control | (2) EWHAR1 is required if autocleaning panel & Onecta is connected; Cannot be combined with KRP4A53; Only possible in combination with wired or wireless remote control | (3) Cannot be combined with KRP4A51 and KRP2A51

Madoka wired remote controller

The beauty of simplicity

Madoka

Silver
RAL 9006 (metallic)
BRC1H52S7

Black
RAL 9005 (matte)
BRC1H52K7

White
RAL9003 (glossy)
BRC1H52W7

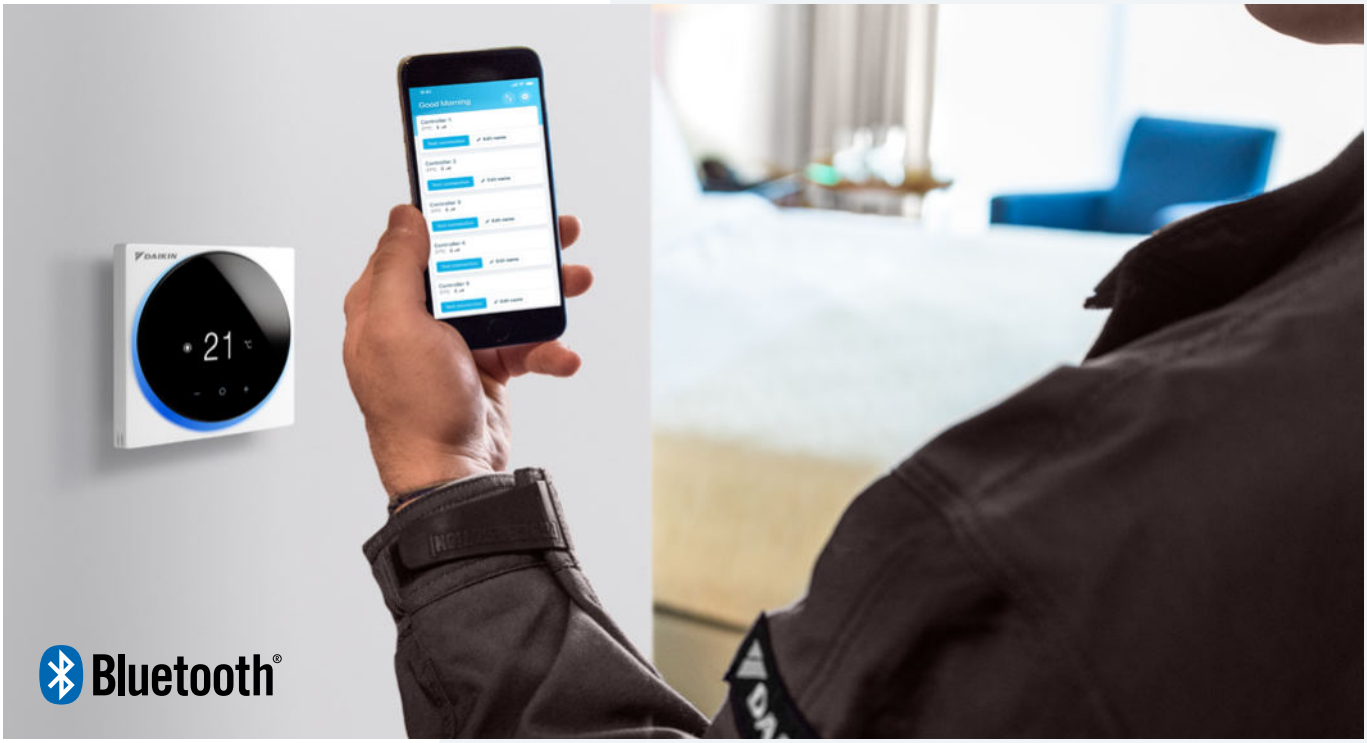
User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- Sleek and elegant design
- Intuitive touch-button control
- Three display options: standard, detailed and **new symbolic view**
- Three colours to match any interior
- Compact, measures only 85 x 85 mm
- Advanced settings **copy function** and commissioning via smartphone
- CO_2 concentration visualisation

reddot award 2018
winner

DESIGN AWARD 2018



Madoka Assistant

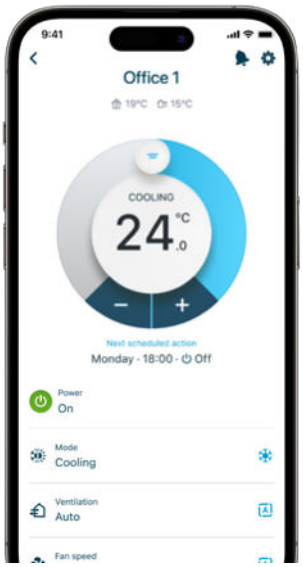
Simplifies the advanced settings such as schedule or set point limitation

- Visual interface simplifies advanced settings such as schedule setting,energy saving activation, setting restrictions, etc.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- Easy and quick commissioning
- Featuring Bluetooth® low energy technology

Available on the App Store

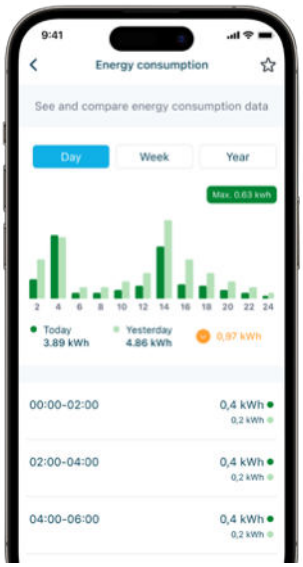
GET IT ON Google Play

Control your devices

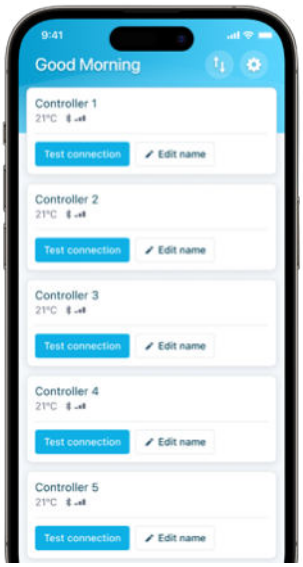


Set schedules

Gain insights



Installer mode



BRC1H52W7 / BRC1H52S7 / BRC1H52K7

Madoka wired remote controller for Sky Air and VRV

BRC1H52W7
Symbollic view

BRC1H52S7
Standard view

BRC1H52K7
CO_2 visualisation

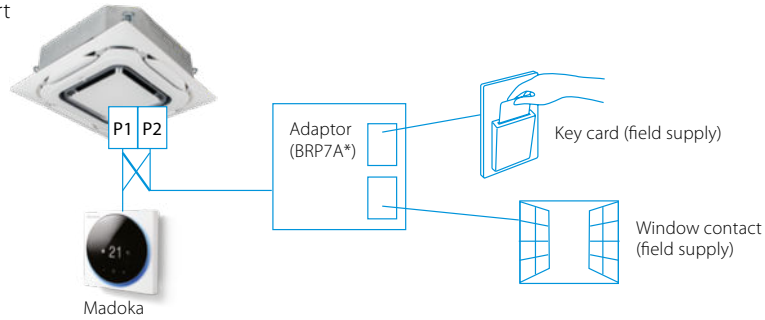
A completely redesigned controller focused on enhancing the user experience

- Sleek and elegant design
- Intuitive touch-button control
- Three display options: standard, detailed and **symbolic view**
- Direct access to basic functions
  (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset, error & code)
- Three colours to match any interior
- Compact, measures only 85 x 85 mm
- Real time clock with auto update to daylight saving time

Hotel application features

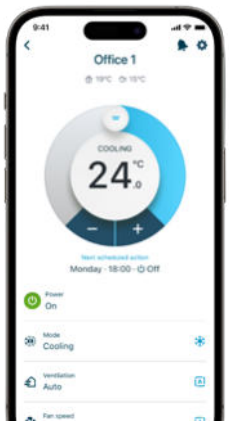
- Energy saving through key card, window contact integration and set point limitation (BRP7A*)
- Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort

Key card and window contact integration



Madoka Assistant: Advanced settings can be easily managed via your smartphone

Control your devices



A range of energy-saving functions that can be selected individually

- Temperature range restriction:
  Save on energy by setting the low temperature limit in cooling mode and the high temperature limit in heating mode (1)
- Setback function
- Adjustable presence detector and floor sensor (available on the Round Flow and Fully Flat Cassettes)
- Automatic temperature reset
- Auto off timer

Kilowatt-hour consumption tracking (2)
The kWh indicator displays indicative power consumption for the last day/month/year.

Other functions

- Three user access levels: Basic user, Advanced and Installer to match user requirements and prevent improper use.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- Mark frequently used menu's as favourites for direct access
- Up to three independent schedules can be programmed, allowing you to switch easily between them throughout the year (e.g. summer/winter/mid-season)
- Menu settings can be individually locked or restricted
- The outdoor unit can be set to quiet mode and power consumption limit control by schedule (3)
- Real-time clock that updates automatically for daylight saving

Cost-effective solution for infrastructure cooling applications

- Only in combination with RZAG* / RZQG*
- Duty rotation
  After a certain period of time, the operating unit will go into standby and the standby unit will take over, extending the system lifetime.Rotation interval can be set for 6, 12, 24, 72 or 96 hours, as well as weekly.
- Back-up operation: if one unit fails, the other unit will start automatically

(1) Also available in auto cooling/heating changeover mode
(2) For Sky Air FBA, FCAG and FCAHG pair combinations only
(3) Only available on RZAG*, RZASG*, RZQG*, RZQSG*

BRC1E53A

User friendly remote control for Sky Air and VRV

Graphical display of indicative electricity consumption (Function available in combination with FBA-A, FCAG and FCAHG)

A series of energy saving functions that can be individually selected

- Demand control (1)
- Temperature range limit
- Setback function
- Presence & floor sensor connection (available on round flow and fully flat cassette)
- kWh indication (2)
- Set temperature auto reset
- Off timer

Other functions

- Up to 3 independent schedules
- Possibility to individually restrict menu functions
- Choice of display between symbol or text
- Real time clock with auto update to daylight saving time
- Built-in backup power for clock (up to 48 hours). Settings are always kept in case of power loss.
- Supports multiple languages: BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portuguese

Cost-effective solution for infrastructure cooling applications

- Only in combination with RZAG* / RZQG*

DUTY ROTATION

(1) Only available on RZAG*, RZASG*, RZQG*, RZQSG*
(2) For Sky Air FBA, FCAG and FCAHG pair combinations only

BRC1D52

Wired remote control for Sky Air and VRV

BRC1D52

- Schedule timer: Five day actions can be set
- Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- Immediate display of fault location and condition
- Reduction of maintenance time and costs

BRC4*/BRC7*

Infrared remote control

BRC4*/BRC7*

Operation buttons: ON / OFF, timer mode start / stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/ test indication (2)
Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection / test operation (2)

1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXM, FBA
2. For FX** units only
3. For all features of the remote control, refer to the operation manual

DCC601A51

intelligent Tablet Controller

Advanced centralised controller

- Intuitive and user-friendly interface
- Flexible concept for stand alone applications
- Total solution thanks to integration of 3rd party equipment

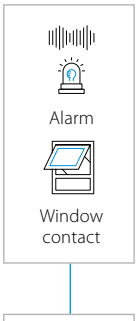
Local solution

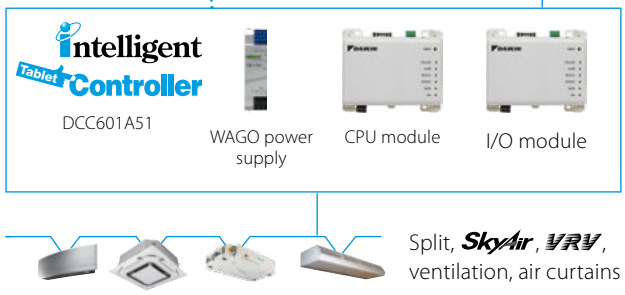
- Offline centralised control
- Stylish optional screen fits any interior

System layout

Local solution

AL-CCD07-VESA-1





Split, SkyAir, VRV, ventilation, air curtains

Total solution

- Total solution thanks to a large integration of Daikin products and 3rd party equipment
- Connect a wide range of units (Split, Sky Air, VRV, Ventilation, Biddle air curtains)
- Simply control your entire building centrally
- Increased customer shopping experience by better management of your shop comfort level

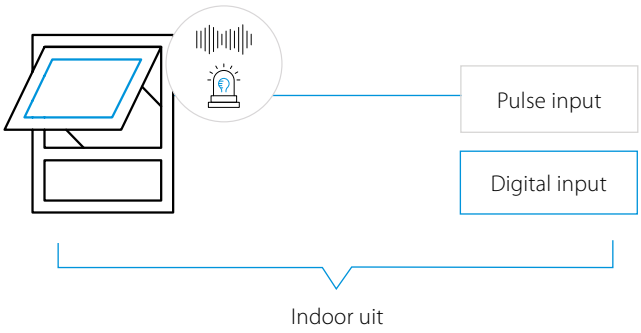
User friendly touch control

- Stylish Daikin supplied optional screen for local control fits any interior
- Intuitive and user-friendly interface
- Full solution with simple control
- Easy commissioning

Flexible

- Pulse/digital inputs for 3rd party equipment such as kWh meters, emergency input, window contact, …
- Control up to 32 indoor units per controller and 320 units per site

(1) only available in combination with certain indoor units



Functions overview

		Local solution
Languages		Depends on local device
System layout	N° of connectable indoor units	32
	Multiple sites control	
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, …)	•
	Remote control prohibition	•
	All devices ON/OFF	•
	Zone control	
	Group control	•
	Weekly schedule	•
	Yearly schedule	
	Interlock control	•
	Set point limitation	
	Visualisation of energy use per operation mode	
Connectable to	DX split, Sky Air, VRV	•
	Modular L Smart, VAM, VKM ventilation	•
	Air curtains	•

For available Daikin Cloud Service options refer to the option list

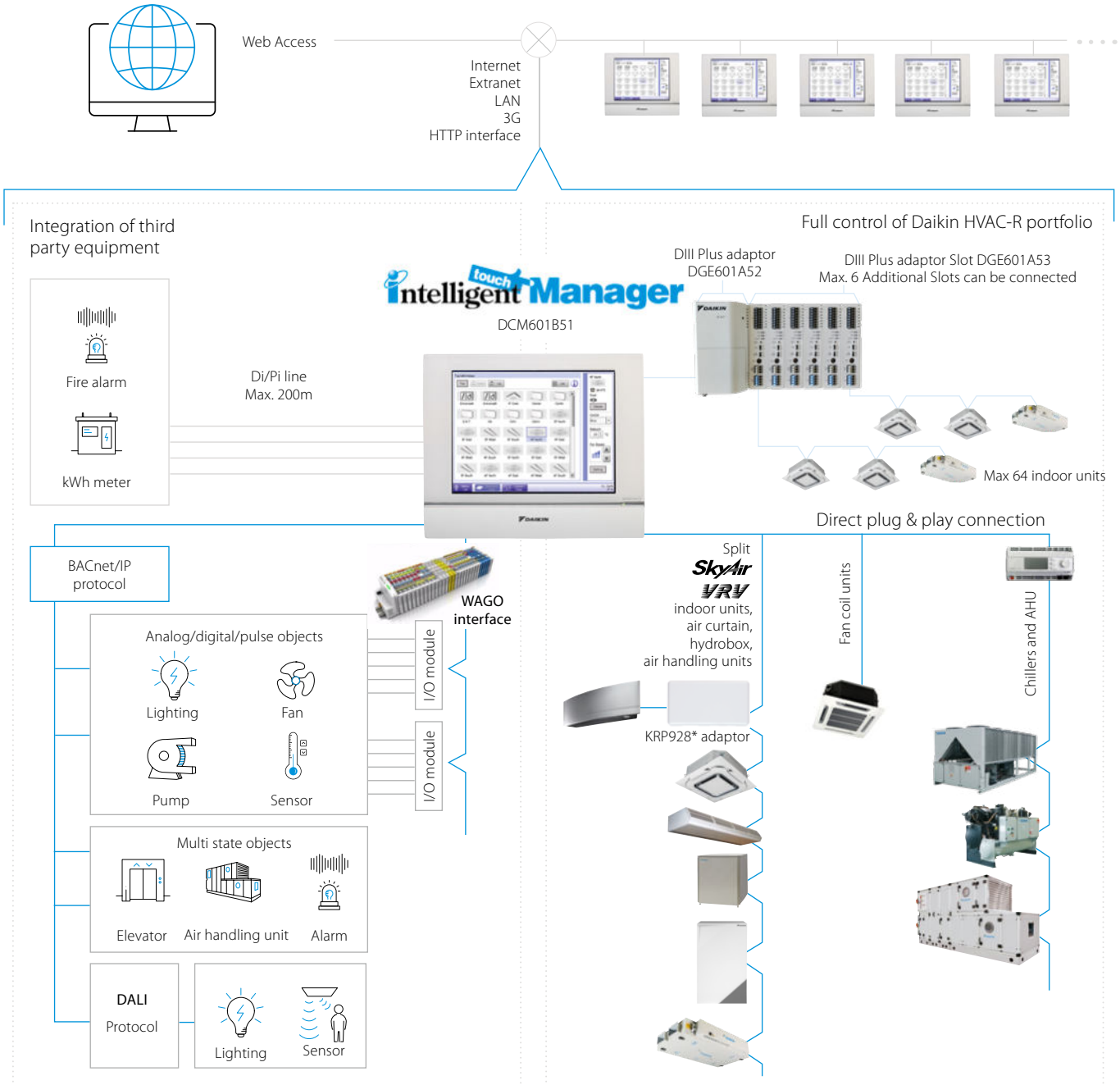
DCM601B51

Mini BMS with full integration across all product pillars

touch intelligent Manager

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

System overview

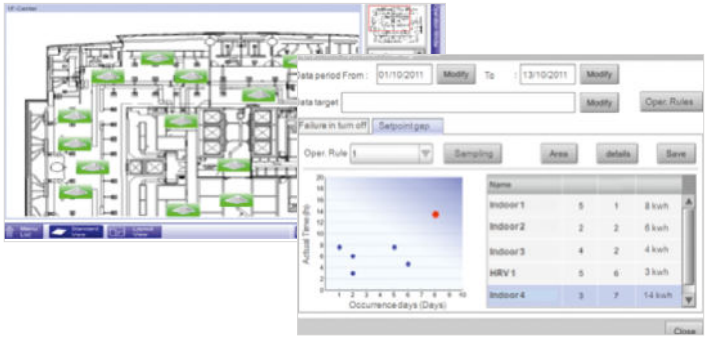


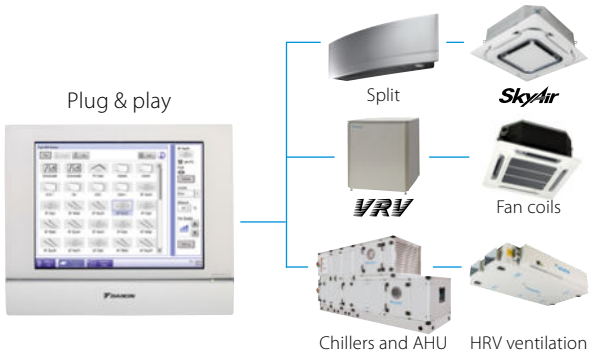
User friendliness
- Intuitive user interface
- Visual lay out view and direct access to indoor unit main functions
- All functions direct accessible via touch screen or via web interface
- Simplified electrical wiring, only one power supply & one connection wiring required

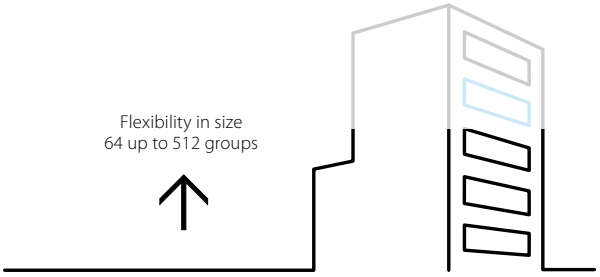
Smart energy management
- Monitoring if energy use is according to plan
- Helps to detect origins of energy waste
- Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equipment such as heating
- Peak Power Cut off Control: Activating this feature in schedule function allows users to operate the outdoor unit in 4 settings i.e. 100%,70%, 40% and 0%

Flexibility
- Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- BACnet protocol for 3rd party products integration
- I/O for integration of equipment such as lights, pumps… on WAGO modules
- Modular concept for small to large applications
- Manage multiple sites

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







Functions overview

Languages
- English
- French
- German
- Italian
- Spanish
- Dutch
- Portuguese

Control
- Group monitoring and control
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- Interlock control
- Setpoint limitation
- Temperature limit
- Schedule function to activate quiet operation mode on outdoor unit
- Air purification control & Air quality level display (CO_2 level display possible with BRYMA sensor)
- Duty rotation and backup operation
- Remote control prohibition
- Demand control

Management
- Multi site management
- Web access via html 5
- Power Proportional Distribution (option)
- Operational history (malfunctions, …)
- Smart energy management
- monitor if energy use is according to plan
- detect origins of energy waste
- Setback function
- Sliding temperature
- E-mail notification
- Icon and Floor map view

System layout
- Up to 512 indoor unit groups can be controlled (ITM + 7 iTM Plus adapters)
- Up to 56 connectable outdoor units
- Up to 650 connectable management points (with I/O module)

WAGO Interface
- Modular integration of 3rd party equipment
- Large variety of input and outputs available. For more details refer to the options list

DALI integration
- Control and monitor the lights
- Easier facility management: receive error signal when light or light controller has a malfunction
- Flexible approach and less wiring needed, compared to classic light scheme
- Easier to make groups and control scenes
- Connection between intelligent Touch Manager and DALI through WAGO BACnet / IP interface

Open http interface
- Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

Connectable to
- DX Split, Sky Air, VRV
- HRV
- Chillers (via MT3-EKCMBACIP controller)
- Daikin AHU (via MT3-EKCMBACIP controller)
- Fan coils
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51)

Daikin Cloud Plus

Daikin Cloud Plus is a cloud-based remote control and monitoring solution for Daikin commercial HVAC installations. Using enhanced control, monitoring and predictive logic, Daikin Cloud Plus provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Benefits

Easy control of multiple sites
- Remote control and manage sites remotely
- Floor plan control per site
- Multi-site access
- Permission based access

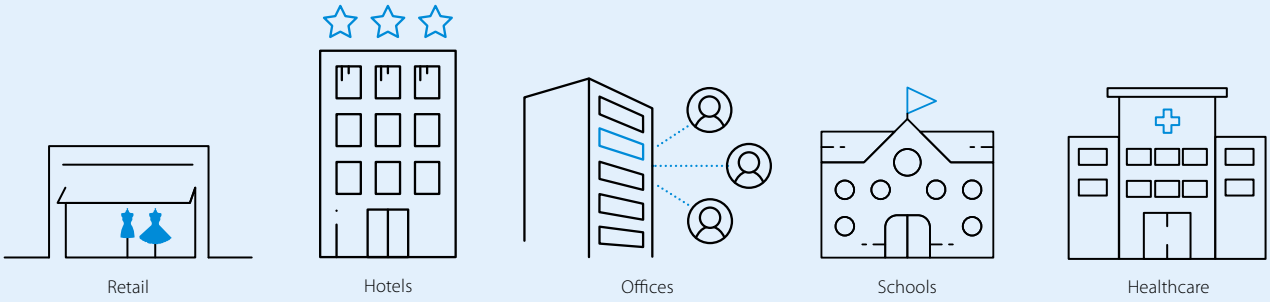
Connectivity and integration possibilities
- Simple to advanced edge controllers
- Various interfaces
- Advanced security

Save energy & meet sustainability goals
- Monitor energy consumption trends
- Smart control of systems to save energy
- Insights to improve HVAC system performance
- Reduced costs
- Contribute to carbon neutrality

Manage, monitor and control indoor climate from anywhere
- Limits the necessity for on-site control
- Minimises downtime and engineer call outs
- Optimised maintenance
- Monitoring of indoor air quality

Main applications

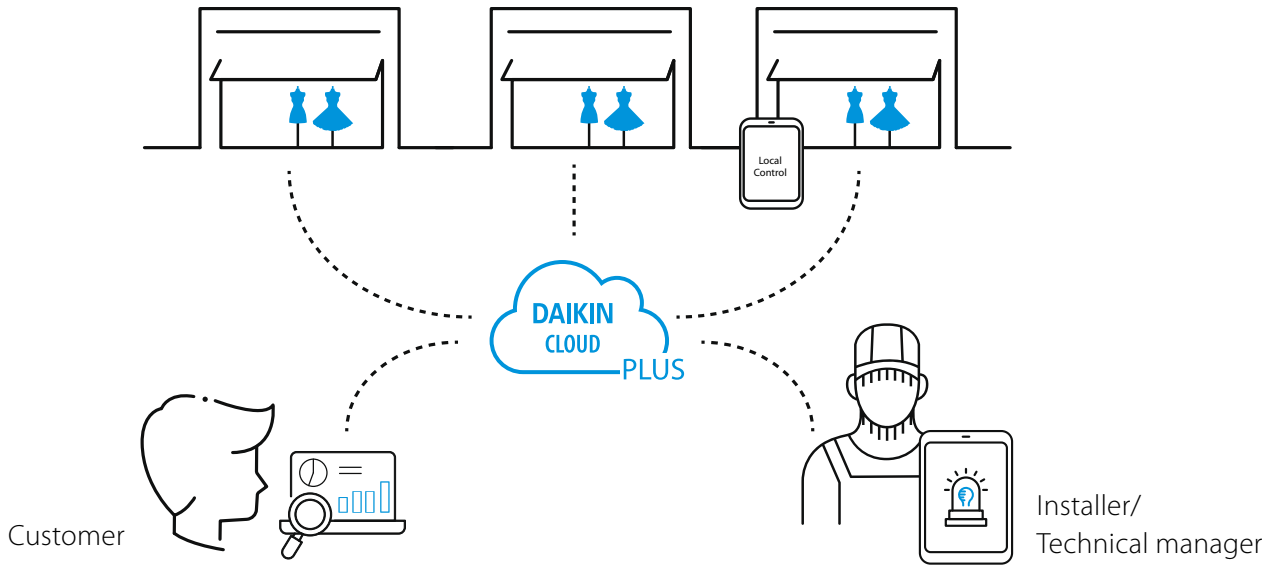
Light commercial and commercial systems



The ultimate control over your indoor climate and air quality
- Save energy & reduce costs
- Enhance comfort & satisfaction
- Smart control from anywhere
- Ensure healthy indoor environment
- Maximise uptime (remote prediction, monitor & diagnose)
- Integrates easily with building systems

Supporting your business and helping you succeed
- Maximise comfort and satisfaction of your staff, customers, tenants, …
- Save energy & reduce costs
- Facilitate your sustainability goals
- Cost effective control and energy monitoring of HVAC and other facility systems such as lighting
- Limits the necessity for on-site interventions
- Minimise downtime and engineer call outs

From one to ∞ sites



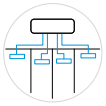
Interfaces

- Daikin Cloud Plus connects with Daikin units for commercial applications: Daikin VRV and Skyair range, Ventilation, Air curtains
- Connection over BACnet with Air handling units, Chillers and 3rd party systems possible
- Daikin AIQ sensor integration
- Connection with other facilities in the building f.ex. lights through I/O and Wago interfaces possible
- Connection with energy meters possible
- Compatible to co-exist with other gateways and interfaces in the system
- Integration via other gateways, Daikin Cloud Plus as part of the system

What needs do we solve?

Are you aware that HVAC systems account for as much as 40% of the total energy consumption in buildings?

- Daikin Cloud Plus logs historical data and allows you to monitor, compare HVAC consumption
- Daikin Cloud Plus allows you to integrate with energy meters so you can monitor not only HVAC but also other energy consumers (facility, gas, water, …)
- Daikin Cloud Plus allows you to configure and control the system smarter to save energy with restrictions, "if this than that" rules, schedules, etc.



How to manage and remotely control single or multi-site buildings while delivering uniform climate control across the estate?

- Daikin Cloud Plus allows you to monitor, manage and control multiple sites from anywhere
- Daikin Cloud Plus allows to compare multiple sites

Are you interested in tracking the progress of sustainability goals or the sustainability policies you put into action?

- Daikin Cloud Plus allows you to monitor, analyse and compare HVAC energy consumption
- Daikin Cloud Plus allows you to remote control and manage new cooling or heating related policies (e.g. heating setpoint of 1° lower)

How to ensure peace of mind regarding indoor air quality?

- Daikin Cloud Plus integrates with IAQ sensors and can take automated actions or provide warnings where needed
- Daikin Cloud Plus allows to monitor and analyse the indoor air quality in order to take necessary actions

How do you ensure maximum comfort and minimal interruptions of cooling and heating?

- Daikin Cloud Plus can predict failures to anticipate and prevent unplanned downtime of the heating or cooling
- Daikin Cloud Plus real-time system error notifications to ensure a direct response in case something goes wrong
- Daikin Cloud Plus logs all events in the system and visualises the temperature evolutions
- Daikin Cloud Plus remote system access to indoor and outdoor unit operational data reduces engineering visits on site

How to control my other systems at the facility?

- Daikin Cloud Plus provides possibilities to integrate with other facility systems as a stand-alone system, such as integration with lighting system
- Daikin Cloud Plus provides possibilities to integrate with other facility management systems like BMS or BEMS

Main features

Remote Control, Demand Control and Scheduling
Control and monitor the climate of your buildings at any time, from anywhere. From a web browser, it is possible to adjust your units' parameters, including temperature setpoints, fan speeds, heating or cooling operation modes and much more. All these parameters can be scheduled for maximum convenience during weekdays, weekends, holidays, office hours, opening hours, etc. Schedules are stored on the controller so the units are functioned as scheduled despite the internet connection. Additionally, units can be positioned in a visual floor plan to make it easier to locate an unit and change the setpoints remotely. Demand control reduces the peak consumption with minimal impact on comfort by predicting future needs and adjusting the operational capacity of the units accordingly.

Energy Monitoring
Get detailed visualisation and export energy data of your buildings. Powerful graphs, comparisons and visualisations are available to help you assess the performance and potential improvements to reduce excessive energy and lower your energy costs. Alongside to detailed energy data of HVAC systems, it is possible to add external meters to measure consumption of lighting and water systems.

Interlocking
Smart rules can be integrated to optimise the operation of your units by setting specific triggers and scheduling necessary actions when these conditions happen. Through "if this, then that" principle, both the comfort of users and the efficiency of units can be optimised. For example, a rule can be: "If a window is open, then after 5 minutes, turn off the air-conditioner". Furthermore, the system enables setting restrictions remotely. For example, a user can only change the temperature between certain limits, which gives users control over their comfort while restricting extreme settings.

Multi-site Management
Get a map view of all your sites with status alerts, benchmark and compare sites to one another. From the map view, you can get direct access to each site to monitor and control the site remotely. This helps to reduce site visits and get insights that lead to opportunities for reducing operational costs while maintaining great comfort levels.

Building Integration
Not only HVAC but other facilities in the buildings can be controlled from the central platform. For example, the lighting system can be included in schedules and integrated with interlocking to have one single point of control and optimise energy efficiency for your buildings.

Use cases

For offices

- Set temperature ranges for office areas to avoid extreme settings by staff
- Detailed energy monitoring and export of data per tenant of different office areas
- Estimation of energy consumption and setting the right pricing for each tenant
- Schedule and restrict controls to avoid energy waste and save energy costs

Alarm Email Notification

Receive alarm notifications for your sites and stay updated on alarm statuses. View active alarms in the platform and receive email notification containing information about the alarms on the Daikin Cloud Plus platform.

Power Consumption Distribution

Proportional distribution of power consumption allows you to calculate the consumption for specific areas in your buildings. For example, you can calculate how much power is used by a tenant on a certain floor. For this function, energy meters are required.

Remote Field Settings

Field settings of outdoor units can be adjusted remotely. This allows technicians and building operators to adjust, configure and monitor outdoor units from a distance, reducing the need to be at the location, save time and costs associated with travel, labour and maintenance, increase efficiency and overall performance.

Site and Alarm History

Trace schedule trigger units or manual actions that were undertaken on the units and sites. Past events, changes, and adjustments, enabling you to identify trends, gauge performance improvements, and strategise for the future. By drawing from historical data, you'll make informed decisions, adapt strategies, and drive continuous enhancements, revolutionising your HVAC management approach. Get detailed overview of alarms relating to your sites and real-time status of the alarms.

Prediction & Email Notification

Early fault predictive algorithms help to prevent major failures. Based on the alarm and operational data, unit-specific prediction logic allows you to preventively, see whether a unit could run into issues. Prediction logic alarms will be generated in this case, allowing early warnings and ensuring smooth operation.

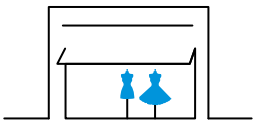
Operational Data Access

Effortlessly monitor, analyse, and fine-tune HVAC parameters remotely, enabling you to make informed decisions on the go. Real-time access to operational data, performance metrics, and energy usage empowers you to adjust settings, troubleshoot anomalies, and maintain peak efficiency, all while minimising the need for physical intervention. Operational data can be downloaded for further analysis and periodical reporting.

Indoor & Outdoor Unit Analysis

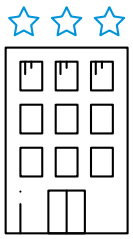
Dive into comprehensive insights into each unit's performance, energy consumption, and environmental impact. Seamlessly compare data across units, pinpointing inefficiencies and optimising your system's overall effectiveness. With a holistic view of indoor and outdoor units, you'll achieve unprecedented levels of operational performance and energy savings.

* Features depend on unit compatibility and region.
Images are indicative and might change if the product evolves.



For retailers

- Remote control and monitoring of all units in different shops from a centralised platform
- Testing and validating parameters and standardising settings for shops
- Energy visualisations and exports
- Remote control over lightings



For hotels

- Set temperature ranges for rooms to avoid extreme settings by guests
- Energy monitoring
- Scalability made easier thanks to standardised system settings

Controllers & accessories

Controllers and their connections

Composition

DAIKIN CLOUD PLUS

Internet Connection

User interface

Remote control and monitoring

Maintenance and diagnostics

Energy control, monitoring and insights

IAQ control and monitoring

Multi-site management

Demand Control

Building

Limited local app (optional)
Local fallback function in case of internet disconnection

Other connections
WAGO, BACnet, Di/Pi

Edge controller and adapters

1.

DC+ Edge (DGE601A51)

DGPF DIII Plus ADP (DGE601A52)

+

DGPF DIII Plus ADP SLOT (DGE601A53)

2.

DC+ Edge lite (DGE602A51)

Controller Features

				DGE601A51 (Edge)	DGE602A51 (Edge lite)
Controller specification	I/F	DIII	port	2	1
			(Indoor unit connection / port)	64	64
		Ethernet	Internet	1	1
			2nd LAN port (BACnet)	1(N.A. yet)	0
		RS485	WAGO	1	0
		ADP	For DIII NET Plus ADP	1	0
			(Maximum expansion)	6	
		Contact	Di/Pi	8	4
			Do	3	2
	Number of connection	DIII management points	Standard	128	64
			Maximum with ADP	512	-
		Total management points	Including AC and other facilities	1,000	76

Individual Modbus interfaces

RTD-RA
- Modbus interface for monitoring and control of residential indoor units

DAIKIN MODBUS ADAPTOR SIMPLE (EKMBPP1A) NEW
- Modbus interface for monitoring & control of Sky air, VRV & ventilation units.
- Smart grid control for Sky air indoor units.

RTD-10
- Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
  - Modbus
  - Voltage (0-10V)
  - Resistance
- Duty/standby function for server rooms

RTD-20
- Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- Clone or independent zone control
- Increased comfort with integration of CO_2 sensor for fresh air volume control
- Save on running costs via
  - pre/post and trade mode
  - set point limitation
  - overall shut down
  - PIR sensor for adaptive deadband

RTD-HO
- Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
- Intelligent hotel room controller

RTD-W
- Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

Daikin HomeHub EKRHH NEW
- Modbus RTU connectivity
- Configuration, control and feedback through the MMI of the Daikin Altherma or Multi+ (DHW) tank

DCOM-LT/MB
- Modbus interface of Daikin Altherma air-to-water heat pumps, hybrid heat pumps and ground source heat pumps

DCOM/LT-IO
- Voltage & resistance control in addition to Modbus

Overview functions





Main functions			RTD-RA	EKMBPP1A	RTD-10	RTD-20	RTD-HO
Dimensions	HxWxD	mm	80x80x37.5	100x100x20		100x100x22	
Key card + window contact							✓
Set back function			✓				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)			✓	✓	✓	✓**	✓
Modbus (RS485)			✓	✓	✓	✓	✓
Group control			✓(1)	✓	✓	✓	✓
0 - 10 V control					✓	✓	
Resistance control					✓	✓	
IT application			✓		✓		
Heating interlock					✓	✓	
Output signal (on/defrost, error)					✓	✓****	✓
Retail application						✓	
Partitioned room control						✓	
Air curtain				✓***	✓***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-RA	EKMBPP1A	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
Fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control		M	M,V,R	M	
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				
Smart Grid Control		M			

Monitoring functions	RTD-RA	EKMBPP1A	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
Fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
N° of units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average/Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Termo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M


Main functions			RTD-W
Dimensions	HxWxD	mm	100x100x22
On/off prohibition			✓
Modbus RS485			✓
Dry contact control			✓
Output signal (operation error)			✓
Space heating / cooling operation			✓
Domestic hot water control			✓
Smart Grid control			
Control functions			
On/Off Space heating/cooling			M,C
Set point leaving water temperature (heating / cooling)			M,V
Room temperature setpoint			M
Operation mode			M
Domestic Hot water ON			
Domestic Hot Water reheat			M,C
Domestic Hot Water reheat setpoint			
Domestic Hot Water storage			M
Domestic Hot Water Booster setpoint			
Quiet mode			M,C
Weather dependent setpoint enable			M
Weather dependent curve shift			M
Fault/pump info relay choice			
Control source prohibition			M
Smart grid mode control			
Prohibit Space heating/cooling			
Prohibit DHW			
Prohibit Electric heaters			
Prohibit All operation			
PV available for storage			
Powerful boost			
Monitoring functions			
• On/Off Space heating/cooling			M,C
• Set point leaving water temperature (H/C)			M
• Room temperature setpoint			M
• Operation mode			M
• Domestic Hot Water reheat			M
• Domestic Hot Water storage			M
• Number of units in the group			M
• Average leaving water temperature			M
• Remocon room temperature			M
• Fault			M,C
• Fault code			M
• Circulation pump operation			M
• Flow rate			
• Solar pump operation			
• Compressor status			M
• Desinfection operation			M
• Setback operation			M
• Defrost/ start up			M
• Hot start			
• Booster Heater operation			
• 3-Way valve status			
• Pump running hours accumulated			M
• Compressor running hours accumulated			
• Actual leaving water temperature			M
• Actual return water temperature			M
• Actual DHW tank temperature (*)			M
• Actual refrigerant temperature			
• Actual outdoor temperature			M

Control functions	EKRHH
Leaving water main heating or cooling setpoint	✓
Operation mode	✓
Space heating/cooling ON/OFF	✓
Room thermostat control heating or cooling setpoint	✓
Room thermostat ON/OFF	✓
Quiet mode ON/OFF	✓
DHW reheat set point	✓
DHW reheat ON/OFF	✓
DHW powerful mode ON/OFF	✓
Weather dependent mode and offset	✓
SG operation mode	✓
Power limit during recommended on / buffering	✓
General power limit	✓
Monitoring functions	
Error code	✓
Circulation pump running	✓
Compressor running	✓
Backup heater running	✓
Disinfection operation	✓
Defrost/startup/hot start	✓
Operation mode	✓
Leaving water temperature PHE/BUH	✓
Return water temperature	✓
Domestic hot water temperature	✓
Ambient temperature	✓
Liquid refrigerant temperature	✓
Flowrate	✓
Room temperature	✓
Heat pump power consumption	✓
DHW operation / space heating operation	✓
Leaving water temperature lower and upper limit	✓

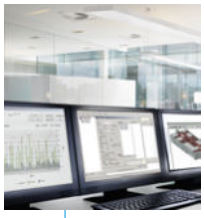
M: Modbus / R: Resistance / V: Voltage / C: control | *: only when room is occupied / **: setpoint limitation / (*) if available | ***: no fan speed control on the CYV air curtain / ****: run & fault

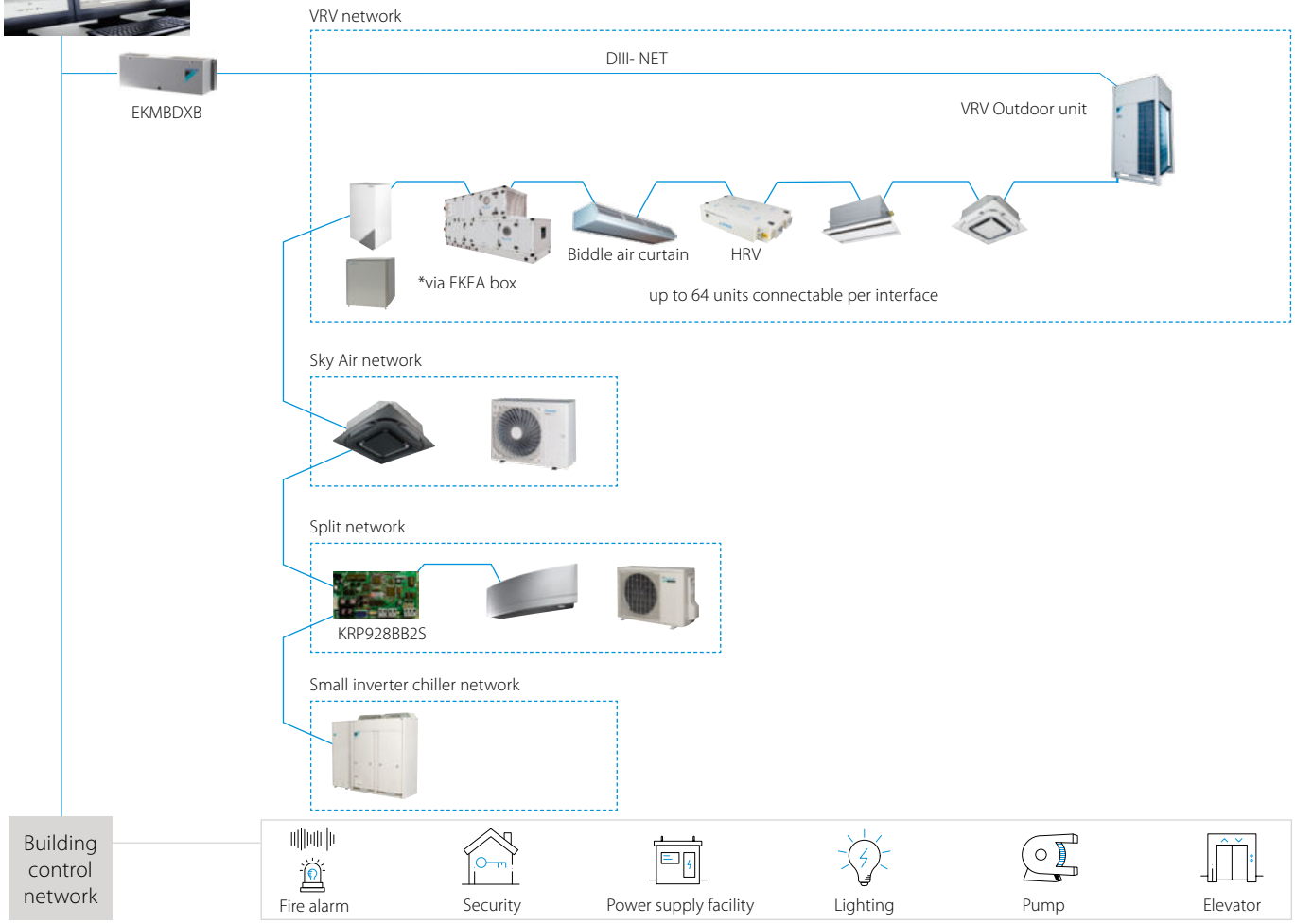
EKMBDXB

DIII-net Modbus interface

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

- Communication via Modbus RS485 protocol
- Detailed monitoring and control of the VRV total solution
- Easy and fast installation via DIII-net protocol
- As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).





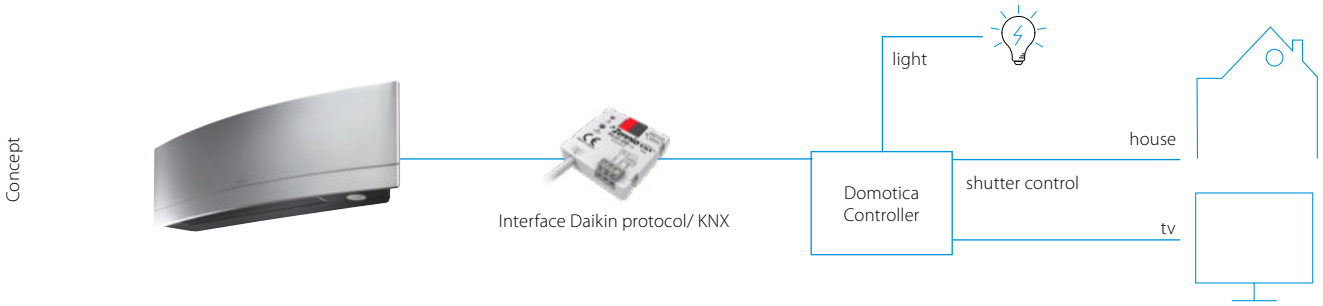
			EKMBDXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9,600 bps or 19,200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KLIC-DDV3
KLIC-DI_V2

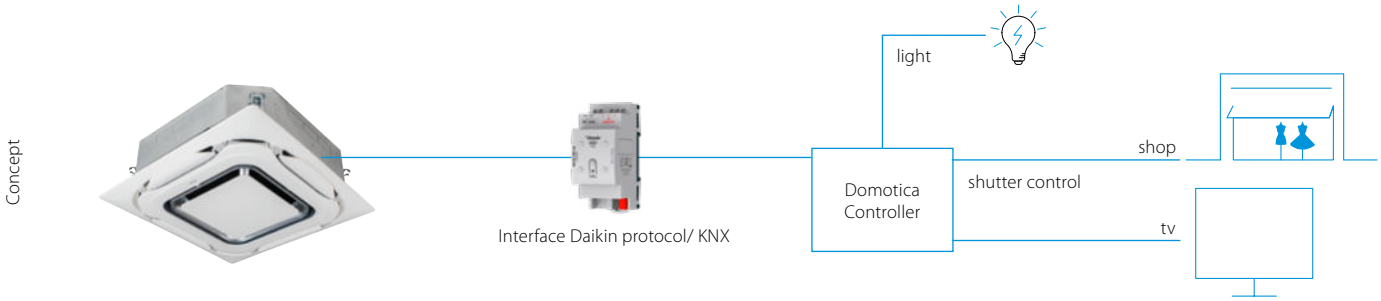
KNX interface

Integration of Split, Sky Air and VRV in HA/BMS systems

Connect split indoor units to KNX interface for Home Automation system



Connect Sky Air / VRV indoor units to KNX interface for BMS integration



KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scene' - such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

KNX interface

	 KLIC-DDV3 size 45x45x15mm	 KLIC-DI_V2 size 90x60x35mm	
	Split	**Sky Air**	**VRV**
Basic control			
On/Off	•	•	•
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	•	•	•
Fan speed levels	3 or 5 + auto	2 or 3	2 or 3
Swing	Stop or movement	Stop or movement	Swing or fixed positions (5)
Advanced functionalities			
Error management	Communication errors, Daikin unit errors		
Scenes	•	•	•
Auto switch off	•	•	•
Temperature limitation	•	•	•
Initial configuration	•	•	•
Master and slave configuration		•	•

DCM010A51

PMS Interface

Hotel interface connecting Daikin HVAC Property Management Systems

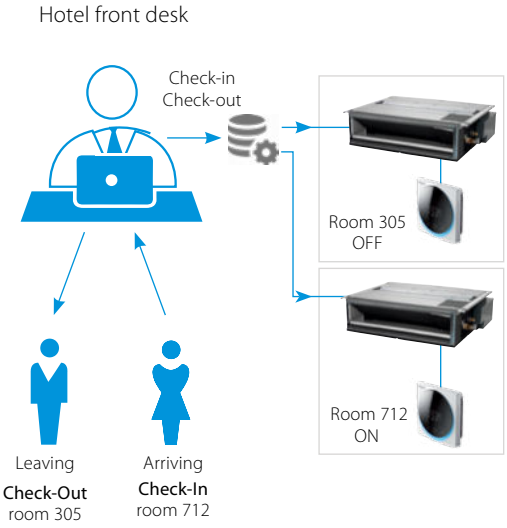
Room view showing room status: check-in, check-out, pre-heating / cooling status, room temperature and A/C status

HVAC settings can be easily observed and changed by the reception desk

Multiple room types (bed-room, meeting room, …) can be defined with customised A/C settings for each type

Hotel case example:

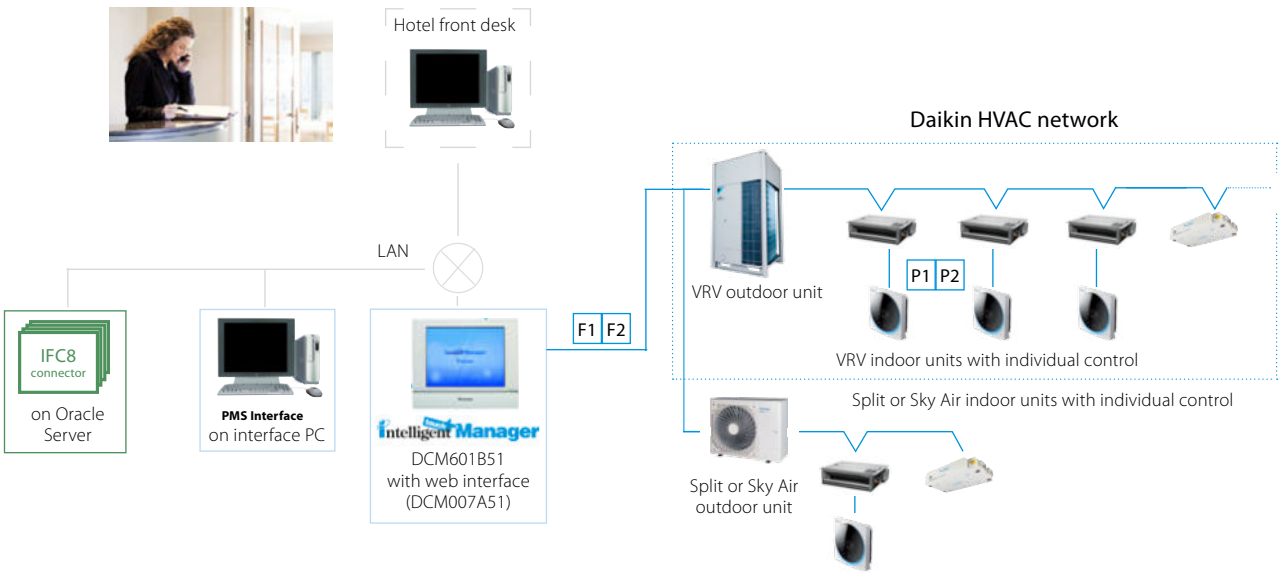
- On check-in the HVAC for the room is automatically switched on
- On check-out the HVAC for the room is automatically switched off.
- Increased hotel customer experience by pre-heating / cooling of booked rooms



Features

- User-friendly interface for easy front desk support in hotels, conference centres etc.
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- Energy saving thanks to the possibility to limit temperature setpoint
- Up to 5 customised operation profiles based on weather conditions
- Available in 23 languages
- Up to 2,500 units / rooms can be managed
- The Daikin PMS is using the FIAS protocol, designed by Oracle, to interface with the Property Management System.

Simplified configuration of Daikin PMS interface

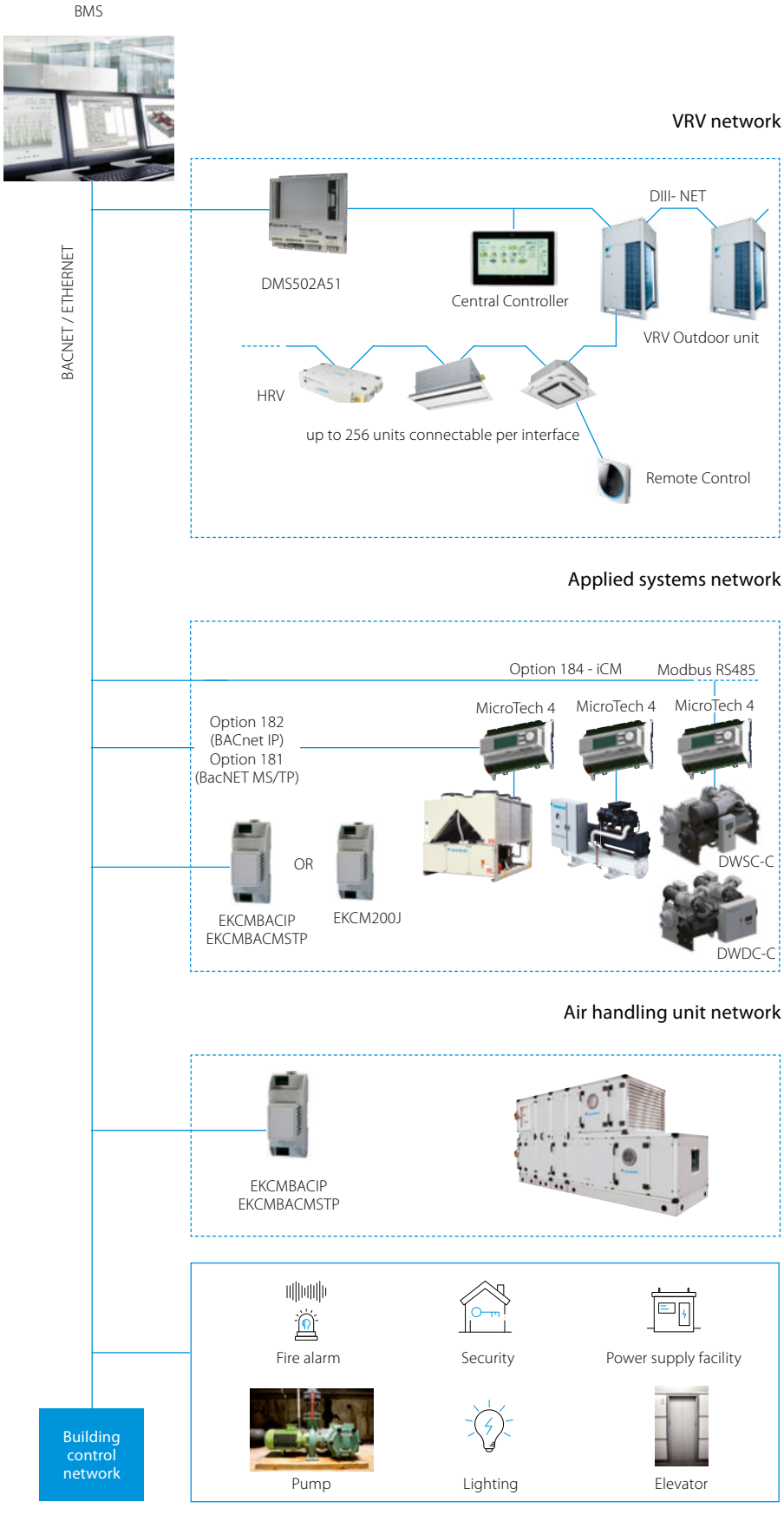


DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- Unlimited site size
- Easy and fast installation
- PPD data is available on BMS system (only for VRV)

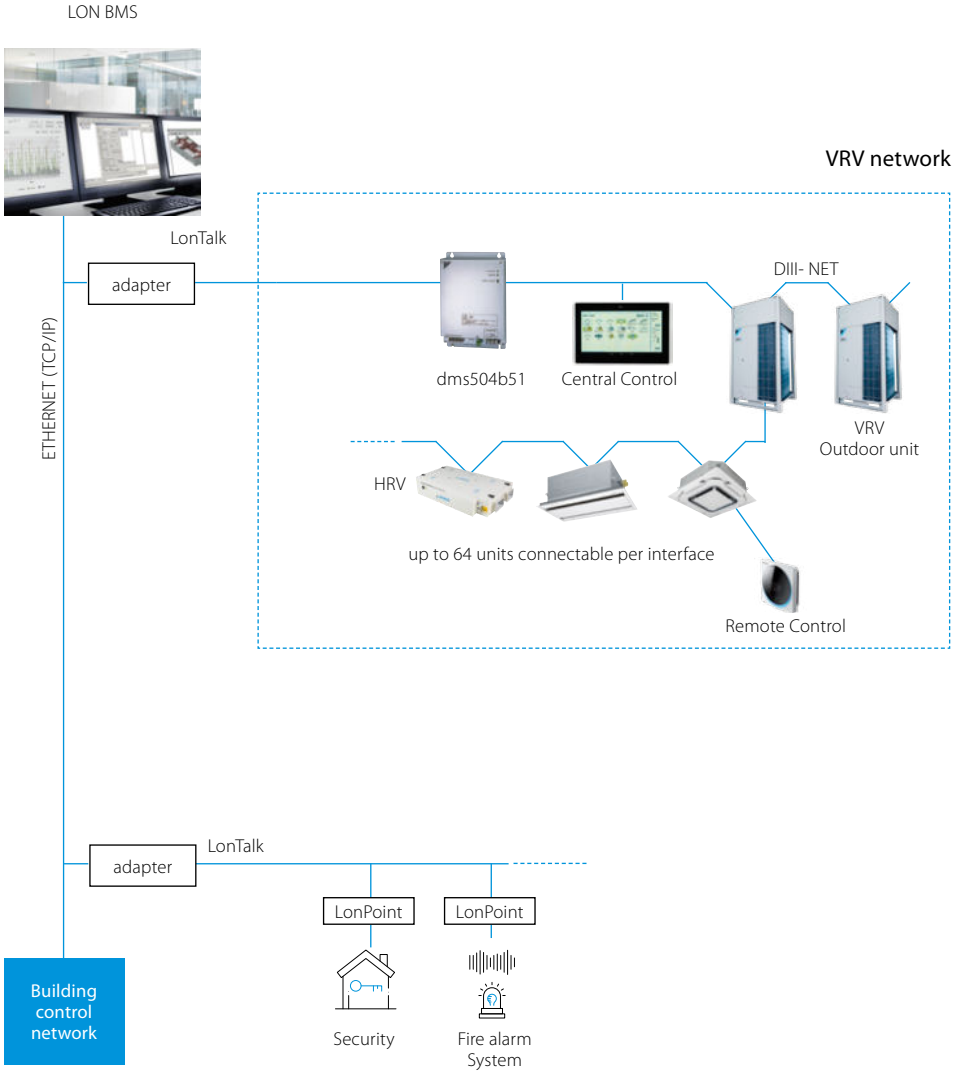


DMS504B51

LonWorks Interface

Open network integration of VRV monitoring and control functions into LonWorks networks

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- Unlimited site size
- Quick and easy installation



EKPCCAB4

Daikin Configurator Tool + Software

Simplified commissioning: graphical interface to configure, commission and upload system settings

Simplified commissioning

The Daikin configurator for VRV is an advanced software solution that allows for easy system configuration and commissioning:

- Less time is required on the roof configuring the outdoor unit
- Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- Initial settings on the outdoor unit can be easily retrieved

Simplified commissioning

Retrieve initial system settings

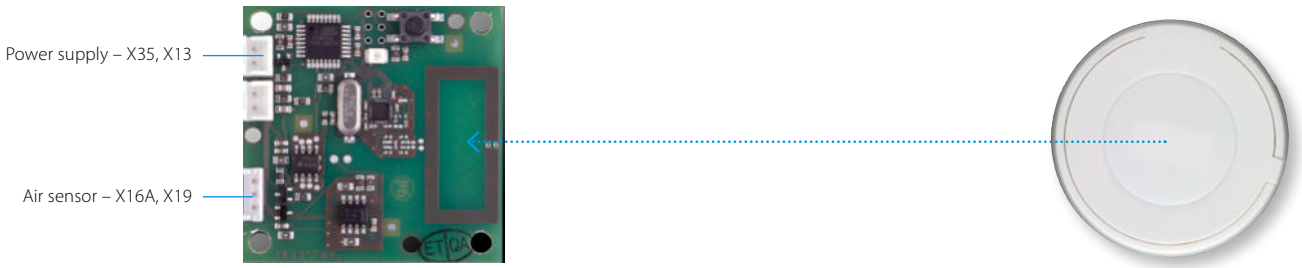
K.RSS

Wireless room temperature sensor for Sky Air and VRV

Flexible and easy installation

- Accurate temperature measurement thanks to flexible placement of the sensor
- No need for wiring
- No need to drill holes
- Ideal for refurbishment

Connection diagram Daikin indoor unit PCB (FXSQ example)



RF receiver

RF sensor (transmitter)

Specifications

			Wireless room temperature sensor kit (K.RSS)	
			Wireless room temperature receiver	Wireless room temperature sensor
Dimensions		mm	50x50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	
Operation range		°C	0~50	
Communication	Type		RF	
	Frequency	MHz	868.3	

- Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

KRCS*

Wired room temperature sensor for Sky Air and VRV

- Accurate temperature measurement, thanks to flexible placement of the sensor
- Specific model code for each indoor unit can be found in the option tables

Specifications

Dimensions (HxW)	mm	60x50
Weight	g	300
Length of branch wiring	m	12

Adapter PCBs

Simple solutions for unique requirements
Concept and benefits

- Low cost option to satisfy simple control requirements
- Deployed on single or multiple units

			Connectable to:		
			Split	Sky Air	VRV
	**(E)KRP1B*** adapter for wiring	• Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper • Powered by and installed at the indoor unit		•	•
	**KRP2A*/KRP4A*** Wiring adapter for electrical appendices	• Remotely start and stop up to 16 indoor units (1 group) (KRP4A* via F1 F2) • Remotely start and stop up to 128 indoor units (64 groups) (KRP2A* via P1 P2) • Alarm indication/ fire shut down • Remote temperature setpoint adjustment • Cannot be used in combination with a central controller		•	•
	**SB.KRP58M2**	• Low noise and demand control option for RZAG-N* and RZASG-M* series. • Obligatory mounted plate EKMKSA2 needs to be ordered separately		•	
	**KRP58M51**	• Low noise and demand control option for RZA-D series. • Includes obligatory mounted plate EKMKSA3 • Obligatory mounting plate EKMKSA3 needs to be ordered separately		•	
	**DTA104A*** Outdoor Unit External Control Adapter	• Individual or simultaneous control of VRV system operating mode • Demand control of individual or multiple systems • Low noise option for individual or multiple systems			•
	**DCS302A52-9** Unification adapter for computerized control	• Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system • Must be used together with Intelligent Touch Controller or intelligent Touch Manager • Cannot be combined with KRP2/4* • Can be used for all VRV indoor models			•
	**KRP928*** Interface adapter for DIII-net	• Allows integration of split units to Daikin central controls	•		
	**KRP980*** Adapter for split units without an S21 port	• Connect a wired remote control • Connect to Daikin central controls • Allow external contact	•		
	**KRP413*** Wiring adapter normal open contact / normal open pulse contact	• Switch off auto restart after power failure • Indication of operation mode / error • Remotely start / stop • Remotely change operation mode • Remotely change fan speed	•		

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO		• External ON/OFF or forced off • Example: door or window contact
EKRORO 3		• External ON/OFF or forced off • F1/F2 contact • Example: door or window contact
KRC19-26A		• Mechanical cool/heat selector • Allows switching over an entire system between cooling/heating/fan only • Connects to the A/B/C terminals of the unit
BRP2A81		• Cool/heat selector PCB • Required to connect KRC19-26A to a VRV IV outdoor unit

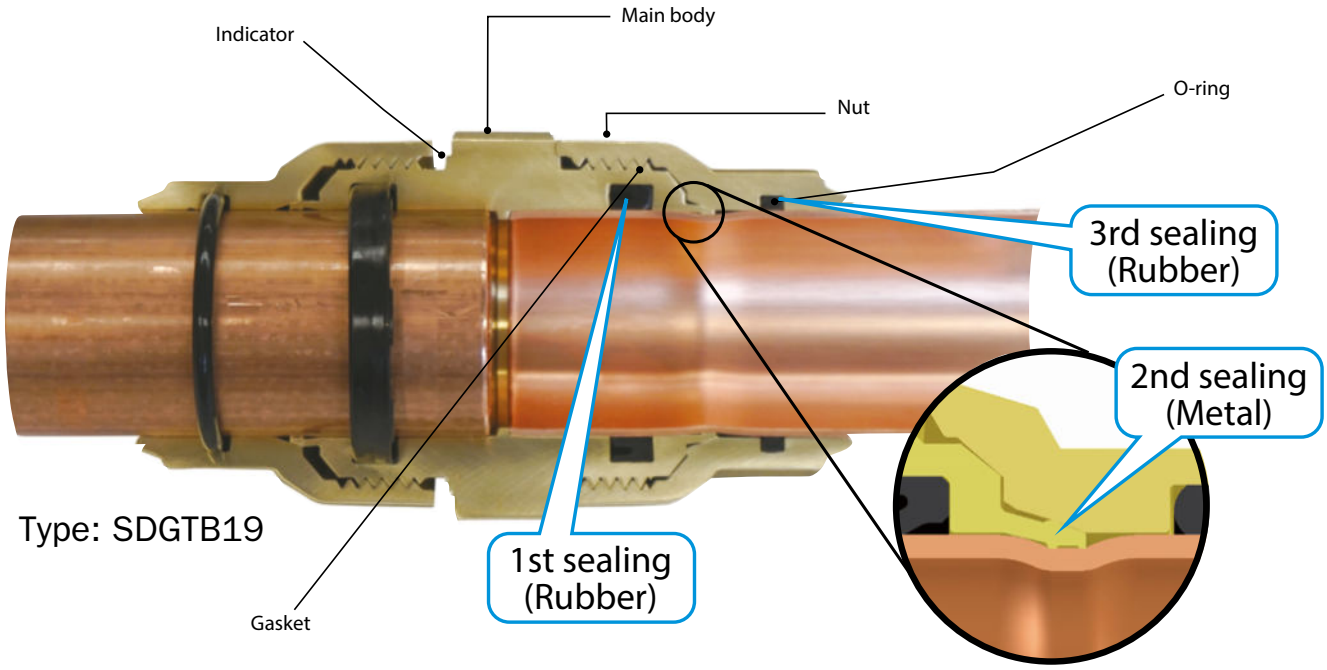
Options & accessories

Tightfit

Daikin Tightfit is a non-brazed connection suitable for refrigerant piping. **Pipes can be joined easily and quickly without brazing or using any special tools**. It meets stringent safety requirements and provides leak-free tightness.

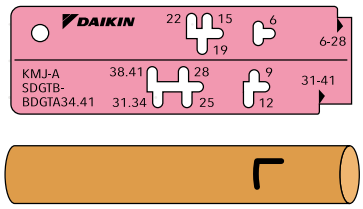
- Double edged claw catches the pipe to form tight, **mechanical sealing ISO 14903 certified**
- Specially developed REFNET allows direct connection to Tightfit joints
- Unique mechanical and resin sealing prevents any leak
- Extremely durable: can withstand up to 4 times the maximum operting pressure of R-32 refrigerant (17.2 Mpa)

Tightfit Mechanism



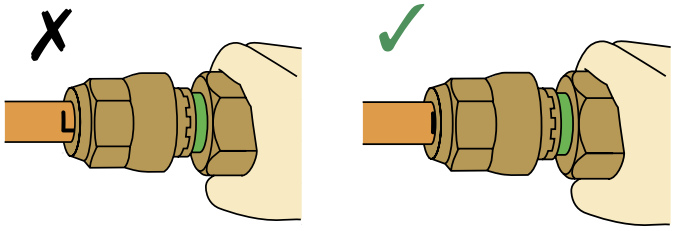
Daikin Tightfit is awarded 3 Ticks Excellent Rating by Singapore Green Building Product (SGBP) scheme. SGBP is a certification for green building products and materials, ensuring that sustainability is integrated throughout the design and manufacturing process of green building products.

Installation in 4 easy steps



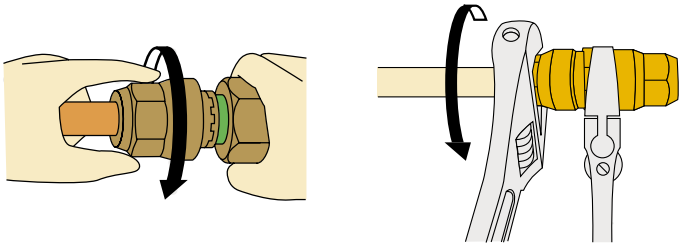
1 Mark the insertion line

Mark the insertion 'T' or 'L' standard line with the marking gauge and marker pen at the proper position of each pipe size.



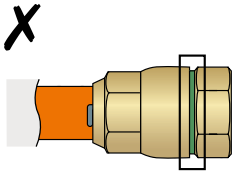
2 Insert the pipe

1. Insert firmly by hand until the pipe stops.
2. Make sure that the insertion standard line is no longer visible.

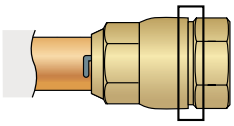


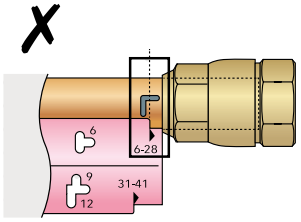
3 Tighten the nut

1. Hold the main body and tighten the nut by hand
2. Hold the main body and tighten the nut with a monkey wrench, until the green indicator disappears and the nut comes into contact with the flat face of the body.

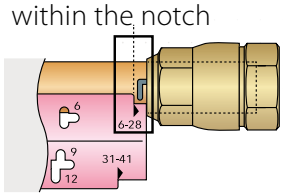


✓ Green indicator is hidden





✓ 'L' shaped mark falls within the notch



4 Check

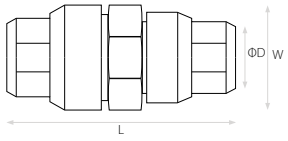
1. Green indicator should be hidden.
2. Place the marking gauge on the end face of the nut and make sure that the 'T' or 'L' shaped mark falls completely within the notch in the marking gauge.

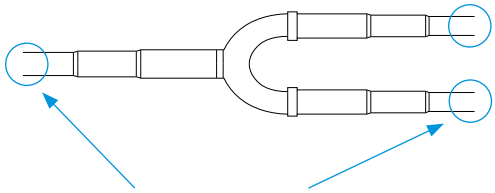
View our installation video!

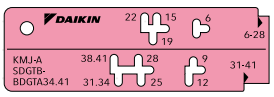
Tightfit joint

Tightfit Refnet

Standard joints (same size piping on each side)						
	Box Model Name	No. of joints/box	Dimensions			
			Diameter	L (mm)	W (mm)	Single Weight (g)
	NEW SDGTC06_B	100	1/4" (6.35mm)	50.4	15	43
	NEW SDGTC09_B	90	3/8" (9.52mm)	55	19.9	79
	NEW SDGTC12_B	70	1/2" (12.7mm)	59	23.5	113
	NEW SDGTC15_B	50	5/8" (15.9mm)	74	30	210
	SDGTB19_B	45	3/4" (19.1mm)	76.8	34.6	273
	SDGTB22_B	30	7/8" (22.2mm)	83.4	40.2	292
	SDGTB28_B	24	1 1/8" (28.6mm)	88	46.7	515
	BDGTA34_B	20	1 3/8" (34.9mm)	101.5	51.1	686
	BDGTA41_B	16	1 5/8" (41.3mm)	103.5	58.3	881

Asymmetric joints (different size piping on each side)						
	Box Model Name	No. of joints/box	Dimensions			
			Diameter	L (mm)	W (mm)	Single Weight (g)
	NEW SDGTC0906_B	90	1/4"-3/8" (6.35-9.52mm)	52.7	19.9	67
	NEW SDGTC1209_B	70	3/8"-1/2" (9.42-12.7mm)	57.5	23.5	101
	NEW SDGTC1512_B	60	1/2"-5/8" (12.7-15.9mm)	65	30	164
	NEW SDGTC1915_B	45	5/8"-3/4" (15.9-19.1mm)	76.8	34.6	244
	SDGTB2219_B	30	3/4"-7/8" (19.1-22.2mm)	81.5	40.2	358
	SDGTB2522_B	30	7/8"-1" (22.2-25.4mm)	85.8	43.5	444
	SDGTB2825_B	24	1"-1 1/8" (25.4-28.6mm)	88.1	46.7	505
	SDGTB3428_B	20	1 1/8"-1 3/8" (28.6-34.9mm)	101.5	51.1	645

Refnets compatible with Tightfit joints				
	Capacity index		Tightfit REFNET	Standard Refnet (for reference only)
	X<290	2-pipe	BHRG26A33T	KHRQ22M20TA
				KHRQ22M20T
				KHRQ22M29T9
	290<= X <= 640		BHRG26A72T	KHRQ22M64T
	640 <= X		BHRG26A73T	KHRQ22M75T
	X<290	3-pipe	BHRG25A33T	KHRQ23M20T
				KHRQ23M29T9
	290<= X <= 640		BHRG25A72T	KHRQ23M64T
	640 <= X		BHRG25A73T	KHRQ23M75T

Accessories	
	New Measuring Tool
	SDGT_GAUGE

Options & accessories

VRV 5 outdoor

		R-32		R-32		R-32	
		VRV 5 heat recovery		VRV 5 heat pump		VRV S-series	
		REYA8-20 REMA5	2 module systems	RXYA 8~20 RYMA5	2-module systems	RXYSA4-6AV1/AY1	RXYSA8-12AAY1
Kits	**Multi-module connection kit (obligatory)** - Connects multiple modules into a single refrigerant system		2 modules: BHFQ23P907A		2 modules: BHFA22P1007		
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units						
	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.						
	Bottom plate heater - To keep drain holes ice-free in extreme weather conditions (one per outdoor unit needed)	5/8-12: EKBPH012TA 14-20: EKBPH020TA	1 kit per system	5/8-12: EKBPH012TA 14-20: EKBPH020TA	1 kit per system	EKBPH250D	
Adapters	**External control adapter for outdoor unit** - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required (2). See Options & Accessories of indoor units				DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units	
	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.			• (3)		• (3)	Standard on unit
	Cool/heat selector PCB (required to connect KRC19-26)			EKBRP2A81		Standard on unit	Standard on unit
Others	**EKCHSC** - Cool/heat selector cable						
	EKPCCAB4 VRV configurator					•	
	DTA109A51 DIII-net expander adapter	• (2) (4)		• (2) (4)			
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)						
	EKDK04 Drain plug kit						
	EKLN140A Sound enclosure					•	

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFQ1 and EKHBFQ2. The kits contain insulation material that complies with EN13501-1:B-S3,dO and BS476-7 (class 1)
(2) Requires mounting plate EKSB26B2* for 14~20HP
(3) Requires installation box KJB111A
(4) Only possible to install 1 adapter PCB

Refnets

		Refnet Joints				Refnet Headers		
		Capacity index	**Capacity index**	**Capacity index**	**Capacity index**	**Capacity index**	**Capacity index**	**Capacity index**
		< 200	**200 ≤ x < 290**	**290 ≤ x < 640**	**> 640**	**< 290**	**290 ≤ x < 640**	**> 640**
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	For all R-410A VRV: KHRQ22M20T For all R-410A+R-32 VRV: KHRQ22M20TA	KHRQ22M29T9	For all R-410A VRV: KHRQ22M64T For all R-32 VRV: KHRA22M65T	KHRQ22M75T	KHRQ22M29H	For all R-410A VRV: KHRQ22M64H For all R-32 VRV: KHRA22M65H	KHRQ22M75H
	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T	KHRQ23M64T	KHRQ23M75T	KHRQ23M29H	KHRQ23M64H	KHRQ23M75H

(1) For metric size connections, contact your local sales responsible

Branch selector boxes

R-32

		VRV 5 Heat Recovery Branch Selector (BSSV) boxes	VRV 5 Heat Pump optional Shut off valve (SV) boxes
		Multi port	**Single & multi port**
		BS-A14AV1B9	**SV-A**
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	Closed pipe kit		Accessories in the box
	Joint kit	EKBSJK	EKBSJK (2)
	Duct connection: To connect extraction of BSSV boxes in serial	EKBSDCK	EKBSDCK
	Drain pump kit	K-KDU303KVE	K-KDU303KVE

(2) not applicable for SV1A25A

Options & accessories - VRV indoor R-32 BLUEVOLUTION

			Ceiling mounted cassette units		
			Round flow (800x800)	Fully flat (600x600)	Corner (1-way)
			FXFA-A	FXZA-A	FXKA-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)	BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)	20-32: BYK32G 40-63: BYK63G
	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)	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 **BRC1H52W7** (White) / **BRC1H52S7** (Silver) / **BRC1H52K7** (Black) User-friendly wired remote controller with premium design		• (mandatory)	• (mandatory)	• (mandatory)
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light				
	BRC1D52 (4) - Standard wired remote control with weekly timer				
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	**EKMBPP1A** - Modbus interface for monitoring and control (check compatibility)		•	•	•
	RTD-10 - Modbus interface for infrastructure cooling		•	•	•
	RTD-20 - Modbus interface for retail		•	•	•
	RTD-HO - Modbus interface for hotel		•	•	•
	KLIC-DI_V2 - KNX Interface		•	•	•
Building Management System & Standard protocol interfaces – for central control	**DCM601B51** - intelligent Touch Manager		•	•	•
	DGE601A51 - Edge adapter for connection to Daikin Cloud Plus		•	•	•
	DGE602A51 - Edge lite adapter for connection to Daikin Cloud Plus		•	•	•
	EKMBDXB - Modbus interface		•	•	•
	DCM010A51 - Daikin PMS interface		•	•	•
	DMS502A51 - BACnet Interface		•	•	•
	DMS504B51 - LonWorks Interface		•	•	•
Filters	Auto cleaning filter		see decoration panel		
	UV Streamer kit (purifies the air of pollutants such as virusses, bacteria, fine dust, odours, allergens, etc ensuring a healthy indoor environment)	UV Streamer kit	BAEF125AWB (22)		
		Replacement filter	BAF55A125		
	High efficiency filter		ePM10 60% BAF552AA160 (23) (BAF552AA160-5: box of 5 filters) (BAF552AA160-10: box of 10 filters)		
	Replacement long life filter, non-woven type		KAF5511D160	KAF441C60	
	Pre-filter				
	Filter chamber				
Wiring and sensors	**KRCS** - External wired temperature sensor		KRCS01-5B	KRCS01-6B	KRCS01-6B
	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)
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)		KRP1BA58 (2)(7)	ERP02A50 (2)	ERP02A50 (2)
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)		EKRP1C12 (2)(7)	EKRP1C14 (2)	EKRP1C14 (2)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω (for dedicated indoor)		KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A53 (2)
	Adapter for external central monitoring/control (controls 1 entire system)			KRP2A52	KRP2A52
	Adapter for keycard and/or window contact connection (2)(11)		BRP7A53	BRP7A53 (2)	BRP7A51 (2)
	Adapter for multi-tenant applications (24VAC PCB power supply interface)		DTA114A61	DTA114A61	DTA114A61
	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	KRP1BC101	KRP1BC101 / KRP4B93
	Wiring kit for Remote ON/OFF or Forced OFF		Standard	Standard	Standard
	Relay PCB for output signal of refrigerant sensor		ERP01A51 (2)	ERP01A50 (2)	ERP01A50 (2)
Others	Drain pump kit		Standard	Standard	Standard
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)				
	Fresh air intake kit (direct installation type)		KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60	
	Air discharge adapter for round duct				
	L-type piping kit				
	Insulation kit for high humidity				

(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
(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

Concealed ceiling units (duct units)			Ceiling suspended units		Wall mounted units	Floor standing units
Slim	Medium ESP	High ESP	1-way blow	4-way blow		Concealed
FXDA-A	FXSA-A	FXMA-A	FXHA-A	FXUA-A	FXAA-A	FXNA-A
				KDBHP49B140 + KDBTP49B140		
				BRE49B2F		
BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA630	BRC4C65
•	•	•	•	•	•	•
• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)
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15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102						
		Replacement filters for 200~250: BAFM503A250 (65%) (21) BAFH504A250 (90%) (21)				
		200~250: BAFL502A250 (21)	32: KAF501B56 50~63: KAF501B80 71~100: KAF501B160	KAFP551K160		
		200~250: BAFL501A250				
		200~250: BDD500B250				
KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRCS01-6B	KRSC01-6B
SB.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)	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)	ERP02A50 (2)
KRP4A54-9 (2)	KRP4A52(2)	50~125: KRP4A52 200~250: KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)	KRP4A54-9 (2)
KRP2A53 (2)	KRP2A51(2)	KRP2A51	KRP2A62		KRP2A61(2)	KRP2A53 (2)
BRP7A54	BRP7A51	BRP7A51	BRP7A52 (2)	BRP7A53	BRP7A51 (2)	BRP7A54 (2)
DTA114A61	DTA114A61	DTA114A61	DTA114A61-9	DTA114A61-9	DTA114A61	
DTA104A53	DTA104A61 (2)	DTA104A61 (2)	DTA104A61	DTA104A61	DTA104A51(2) / DTA104A61(2)	DTA104A53 (2)
KRP1BC101	KRP1BC101	KRP1BC101	KRP1D93A/KRP4B93	KRP1B97 / KRP1C97	KRP4A93	KRP1BC101
	Standard	Standard	standard	standard	Standard	Standard
ERP01A51 (2)	ERP01A50 (2)	ERP01A50	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)
Standard	Standard	200~250: BDU510B250VM	32-50-63: KDU50R63 100: KDU50R160		K-KDU572KVE	
	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 71~100: KHFP5N160			
KDT25N32 / KDT25N50 / KDT25N63						

(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 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
(21) Filter chamber needed (BDD500B250)
(22) Only possible in combination with BYCQ140E and BYCQ140EW. Cannot be combined with other filters, chambers, fresh air intake kits or air discharge outlet sealing member kit
(23) Only possible in combination with BYCQ140E/EW/EB. Cannot be combined with other filters, chambers, fresh air intake kits or discharge outlet sealing member kit

Options - Ventilation

		Energy recovery ventilation - VAM								
		VAM 150FC9	**VAM 250FC9**	**VAM 350J8**	**VAM 500J8**	**VAM 650J8**	**VAM 800J8**	**VAM 1000J8**	**VAM 1500J8**	**VAM 2000J8**
Individual control systems	**BRC301B61** VAM wired remote control	•	•	•	•	•	•	•	•	•
	Madoka **BRC1H52W7** (White) / **BRC1H52S7** (Silver) / **BRC1H52K7** (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•	•	•
	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•	•	•
Centralised control systems	**DCC601A51** intelligent Tablet Controller	•	•	•	•	•	•	•	•	•
	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•	•	•
	DCS302C51 Central remote control	•	•	•	•	•	•	•	•	•
	DCS301B51 Unified ON/OFF control	•	•	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	**DCM601A51** intelligent Touch Manager	•	•	•	•	•	•	•	•	•
	DGE601A51 Edge adapter for connection to Daikin Cloud Plus	•	•	•	•	•	•	•	•	•
	DGE602A51 Edge lite adapter for connection to Daikin Cloud Plus	•	•	•	•	•	•	•	•	•
	EKMBDXB Modbus interface	•	•	•	•	•	•	•	•	•
	DMS502A51 BACnet Interface	•	•	•	•	•	•	•	•	•
	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•	•	•
Filters	Coarse 55% (G4)									
	ePM10 75% (M5)									
	ePM10 70% (M6)			EKAFVJ50F6	EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6 x2
	ePM1 50% (F7)									
	ePM1 60% (F7)			EKAFVJ50F7	EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7 x2	EKAFVJ100F7 x2
	ePM1 70% (F8)			EKAFVJ50F8	EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2
	ePM1 80% (F9)									
	High efficiency filter									
	Replacement air filter									
Mechanical accessories	Rail									
	Rectangular to round duct transition									
	Separate plenum								EKPLEN200 (5)	EKPLEN200 (5)
CO_2 sensor				BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200
Electrical heater for pre treatment of fresh air		GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030	GSIEKA35530 (6)	
DX coil for post treatment of fresh air					EKVDX32A	EKVDX50A	EKVDX50A	EKVDX80A	EKVDX100A	EKVDX100A
Silencer (900mm depth)										
Electrical accessories	Wiring adapter for external monitoring/ control (controls 1 entire system)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)
	Adapter PCB for humidifier									
	Adapter PCB for third party heater	BRP4A50A	BRP4A50A	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (3/4)
	External wired temperature sensor									
	Adapter PCB Mounting plate	EKMP25VAM	EKMP25VAM			EKMP65VAM			EKMPVAM	
	Installation box for adaptor PCB	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101

Notes

(1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, …; (intelligent Touch Manager, EKMBDXA are allowed)

(2) Installation box needed

(3) Adapter PCB mounting plate needed, applicable model can be found in the table above

(4) 3rd party heater and 3rd party humidifier cannot be combined

(5) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)

(6) Available only with optional plenum

(7) To be combined with option BRP4A50A using external 230VAC with local supplied circuit breaker (max. 3A)

Energy recovery ventilation VKM			Air handling unit applications
VKM 50GBM	**VKM 80GBM**	**VKM 100GBM**	**EKEACB (1)**
•	•	•	•
•	•	•	
•	•	•	
•	•	•	
•	•	•	
•	•	•	
•	•	•	
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	
•	•	•	
KAF242H80M	KAF242H100M	KAF242H100M	
KAF241H80M	KAF241H100M	KAF241H100M	
BRYMA65	BRYMA100	BRYMA100	
GSIEKA20024 (7)	GSIEKA20024 (7)	GSIEKA20024 (7)	
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)	
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)	
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)	
			KRCS01-1

Options - Ventilation

Accessories	Compact L Pro						Compact T Pro				
	ALB02LCM ALB02RCM	ALB03LCM ALB03RCM	ALB04LCM ALB04RCM	ALB05LCM ALB05RCM	ALB06LCM ALB06RCM	ALB07LCM ALB07RCM	ATB03RBM ATB03LBM	ATB04RBM ATB04LBM	ATB05RBM ATB05LBM	ATB06RBM ATB06LBM	ATB07RBM ATB07LBM
Iso Coarse 55% (G4) Filter	ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A		ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
ePM10 75% (M5) Filter	ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
ePM1 50% (F7) Filter	ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
ePM1 80% (F9) Filter	ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
Sound attenuator	ALS0290A	ALS0390A	ALS0590A		ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
Rails for door	ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA						
Duct transition	ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA						
Flexible joints	ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB						
Mixing damper									ATA05MDA	ATA06MDA	ATA07MDA
External damper	ALA02EDA	ALA03EDA	ALA05EDA		ALA07EDA		ATA03EDA	ATA04EDA	ATA05EDA	ATA06EDA	ATA07EDA
Electric pre heater [1]	ALD02HEFA	ALD03HEFA	ALD05HEFA		ALD07HEFA		ATD03HEFAU	ATD04HEFAU	ATD05HEFAU	ATD06HEFAU	ATD07HEFAU
Electric post heater [1]	ALD02HESA	ALD03HESA	ALD05HESA		ALD07HESA		ATD03HESAU	ATD04HESAU	ATD05HESAU	ATD06HESAU	ATD07HESAU
DX coil [2]			ALD05CDSA		ALD07CDSA		ATD03UDSAR	ATD04UDSAR	ATD05UDSAR	ATD06UDSAR	ATD07UDSAR
							ATD03UDSAL	ATD04UDSAL	ATD05UDSAL	ATD06UDSAL	ATD07UDSAL
								ATD04UDSBL	ATD05UDSBL	ATD06UDSBL	ATD07UDSBL
								ATD04UDSBR	ATD05UDSBR	ATD06UDSBR	ATD07UDSBR
WATER coil [2]	ALD02CWSA	ALD03CWSA	ALD05CWSA		ALD07CWSA		ATD03UWSAR	ATD04UWSAR	ATD05UWSAR	ATD06UWSAR	ATD07UWSAR
							ATD03UWSAL	ATD04UWSAL	ATD05UWSAL	ATD06UWSAL	ATD07UWSAL
Water pre heating coil	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWFAU	ATD04HWFAU	ATD05HWFAU	ATD06HWFAU	ATD07HWFAU
Water post heating coil [2]	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWSAR	ATD04HWSAR	ATD05HWSAR	ATD06HWSAR	ATD07HWSAR
							ATD03HWSAL	ATD04HWSAL	ATD05HWSAL	ATD06HWSAL	ATD07HWSAL
Droplet Eliminator	ALA02DEA	ALA03DEA	ALA05DEA		ALA07DEA						
Water valve 2 way cooling/heating	ALV02CW2A	ALV03CW2A	ALV05CW2A		ALV07CW2A		ATV03CW2A	ATV04CW2A	ATV05CW2A	ATV06CW2A	ATV07CW2A
Water valve 3 way cooling/heating	ALV02CW3A	ALV03CW3A	ALV05CW3A		ALV07CW3A		ATV03CW3A	ATV04CW3A	ATV05CW3A	ATV06CW3A	ATV07CW3A
Valve modulating actuator	ATE00AMVA										
Damper modulating actuator	ATE00AMDA										
Digital PCB							ATE00DPUA				
Spring return modulating actuator	AUE00ASUA										
Frost switch	ALE00FSUA						ATE00FSUA				
CO_2 sensor	ALP00COA										
Humidity sensor	ALP00HUA										
Temperature probe	ALP00TEA										
Pressure transducer	AUE00PTUA										
Room Interface	ALC00822A (POL 822)										
Commissioning module	ALC00895A (POL 895)										
Modbus RTU module	ALC00902A (POL 902)										
Bacnet IP module	ALC00908A (POL 908)										
Expansion module	ALC00955A										
LonWorks Interface											
Intelligent Touch Manager											
Intelligent Tablet Controller											
Intelligent Touch Controller											
Central remote control											
Unified ON/OFF control											

Notes

(1) For Compact T pro only, both electric heater can be used as pre and post heater

(2) For Compact T pro only, sixth digit on main unit material name has to be aligned with last digit of the coil material name (with the exception of the electric heater and water pre heating coil)
ATB0**R**BM --> ATB0*UDSA**R**
ATB0**R**BM --> ATB0*UDSB**R**
ATB0**R**BM --> ATB0*UWSA**R**
ATB0**R**BM --> ATB0*HWSA**R**
ATB0**L**BM --> ATB0*UDSA**L**
ATB0**L**BM --> ATB0*UDSB**L**
ATB0**L**BM --> ATB0*UWSA**L**
ATB0**L**BM --> ATB0*HWSA**L**

(3) Please refer to the selection software for more details on accessories and their incompatibilities.

Compact L Smart						Compact T Smart				
ALB02LCS ALB02RCS	**ALB03LCS ALB03RCS**	**ALB04LCS ALB04RCS**	**ALB05LCS ALB05RCS**	**ALB06LCS ALB06RCS**	**ALB07LCS ALB07RCS**	**ATB03RBS ATB03LBS**	**ATB04RBS ATB04LBS**	**ATB05RBS ATB05LBS**	**ATB06RBS ATB06LBS**	**ATB07RBS ATB07LBS**
ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A		ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
ALS0290A	ALS0390A	ALS0590A		ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA						
ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA						
ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB						
ALD02HEFB	ALD03HEFB	ALD05HEFB		ALD07HEFB		ATD03HEFBU	ATD04HEFBU	ATD05HEFBU	ATD06HEFBU	ATD07HEFBU
BRYMA200										
BRC301B61 / BRC1H52W7 / BRC1H52S7 / BRC1H52K7 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52										
EKMBDXB										
DMS502A51										
DMS504B51										
DCM601A51										
DCC6011A51										
DCC6011C51										
DCS302C51										
DCS301B51										

Options - Control systems

Individual and centralised controls

	BRC1D*	BRC1E*	BRC1H*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			•				
Electrical box KJB111A	•	•	•				
Electrical box KJB212A(A) (1)	•	•		•	•		
Electrical box KJB311A(A)						•	
Electrical box KJB411AA							•

(1) recommended as wider (more stable mounting)

Intelligent Tablet Controller - DCC601A51

		Intelligent Tablet Controller
		Options for local control
Wired screen for local control	AL-CCD07-VESA-1	•
Commissioning tool		•
Software update tool		•

Standard protocol interfaces - DMS502A51

		BACnet Interface
DIII-net expansion board (2 ports), connects up to 128 additional indoor units	DAM411B51	•
Digital pulse inputs (12) for PPD functionality	DAM412B51	•

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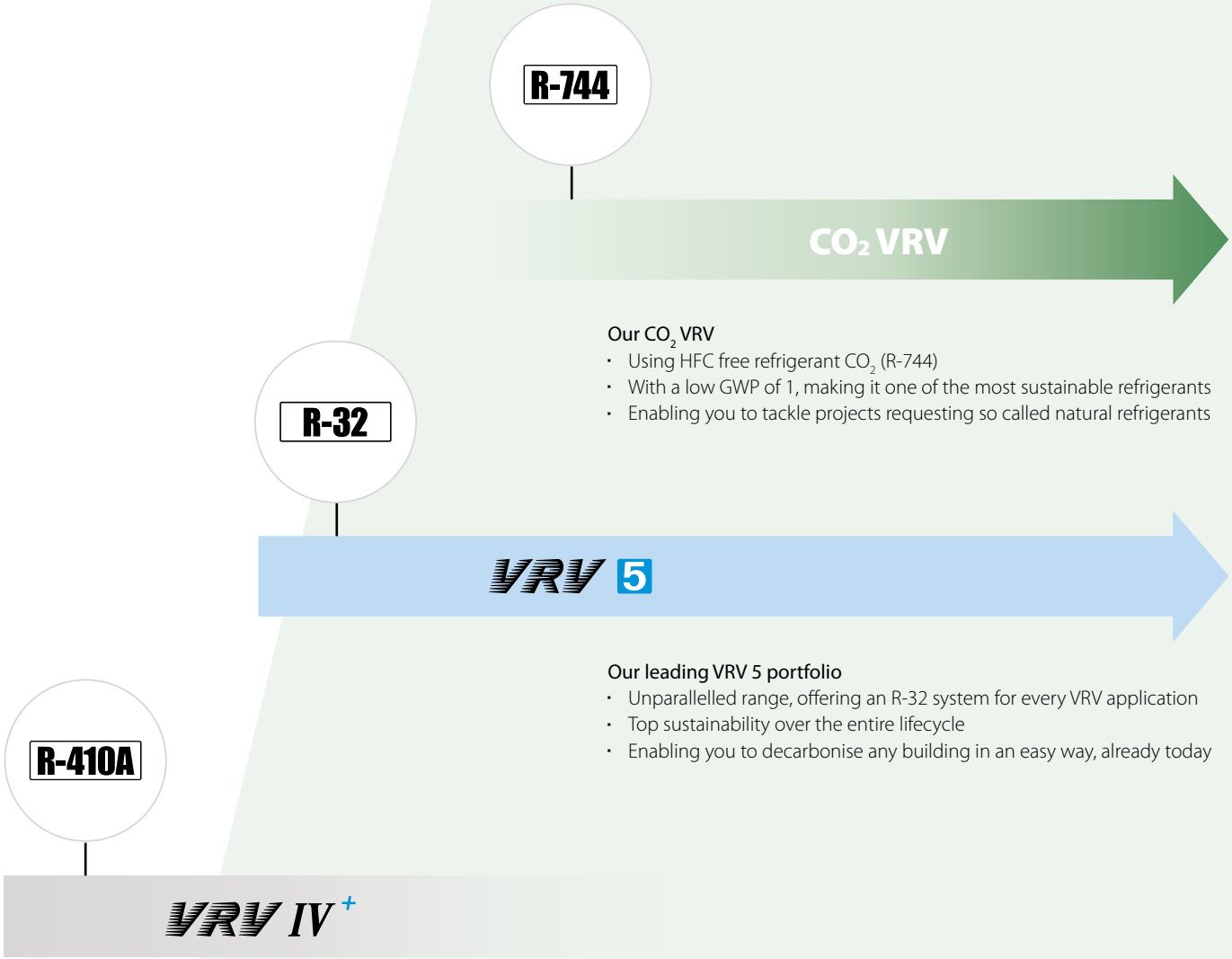

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