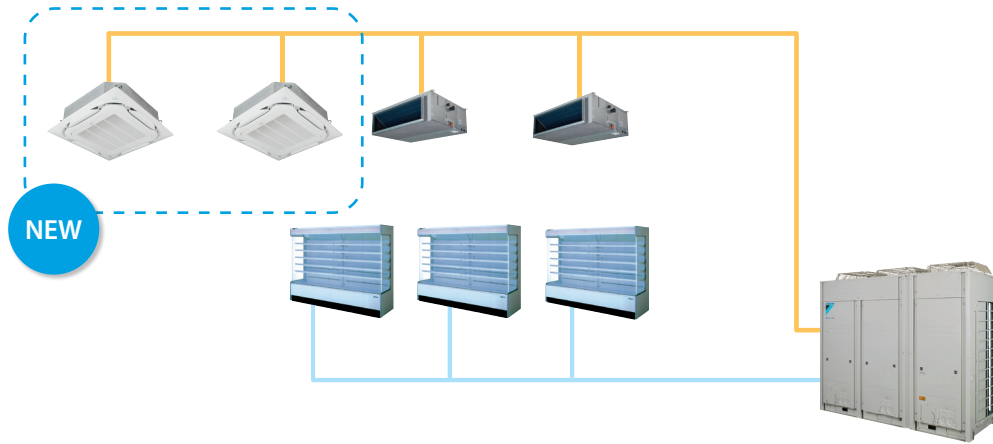


CO₂ Conveni-Pack refrigeration system with heat recovery

Refrigeration solution for food retailers featuring award winning technology for heat recovery

- › Integrates high and low temperature refrigeration and air conditioning (including heating) into one system
- › By using heat recovery, optimised controls and state of the art compressor technology, Conveni-pack can reduce annual energy consumption up to 50% or more, compared to conventional systems
- › Lower associated CO₂ emissions thanks to the heat pump technology
- › Conveni-pack's modular design allows it to be used for smaller as well as larger shops
- › The modularity of the Conveni-pack system maximises installation flexibility. Outdoor units can be grouped into blocks or rows, or distributed around the building, to meet individual installation constraints
- › The heat extracted from the refrigeration showcases or evaporators can be re-used for comfort heating of the shop at no extra cost
- › Low sound level including „night mode“ operation



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



LRYEN-AY1

Medium Temperature Refrigeration, Cooling Only, Heating Only					LRYEN	10AY1
Parameters at part load and ambient temp. 25°C (Point B)						---
Parameters at part load and ambient temp. 25°C (Point B)						---
Dimensions	Unit	HeightxWidthxDepth			mm	1,680x1,930x765
Weight	Unit				kg	563
Heat exchanger	Type					Cross fin coil
Compressor	Type					Hermetically sealed swing compressor
	Output				W	4,600.0
	Piston displacement				m ³ /h	6.16
	Starting method					Direct on line (inverter driven)
Fan	Type					Propeller fan
	Quantity					3
	Air flow rate	Cooling	Nom.		m ³ /min	300
Fan motor	Output				W	750
Sound pressure level	Nom.				dBA	64.0
Refrigerant	GWP					1.0
	Type 2					R-744
	Charge				kg	6.30
	Control					Electronic expansion valve
Power supply	Phase/Frequency/Voltage			Hz/V		3N~/50/380-415

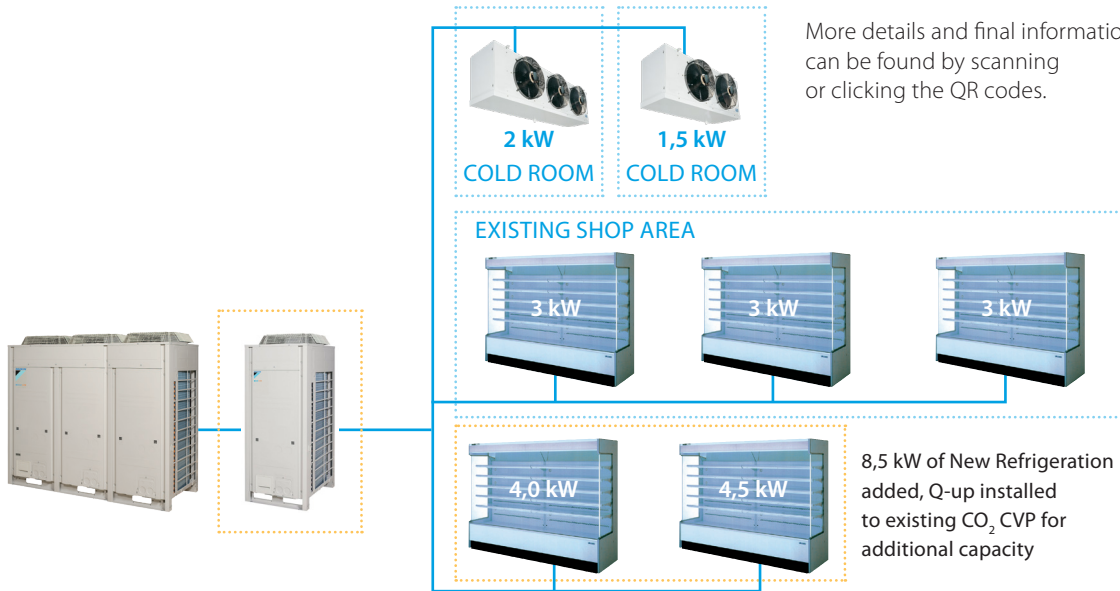
LRYEN10A7Y1+LRNUN5A7Y1 | Compressor 1 | Compressor 2 | Compressor 3 | Factory charge of unit | Only K65 with D.P. 120 bar is allowed to use for AC piping connections. | The safety valve pressure is indicated as gauge pressure. | Only K65 with D.P. 90 bar is allowed to use for refrigeration piping.

Capacity-up module for CO₂ Conveni-Pack

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- › Low sound level including „night mode“ operation



LRNUN-AY1



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



LRNUN-AY1

Model	Refrigeration Capacity*	HR Capacity
DAIKIN CO ₂ CVP AC10	3 - 14.5 kW	22 kW

Q-up can also easily be added later, as part of a system upgrade

Model	Refrigeration Capacity*	HR Capacity
DAIKIN CO ₂ CVP AC10 + Q-up	3- 21 kW	22 kW

* Refrigeration capacity given under following conditions: Te = -10°C, 10 K SH and ambient = 32°C

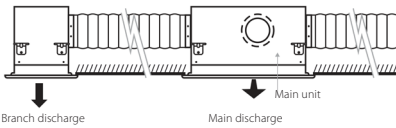
Medium Temperature Refrigeration				LRNUN	5AY1
Parameters at part load and ambient temp. 25°C (Point B)					---
Parameters at part load and ambient temp. 25°C (Point B)					---
Dimensions	Unit	HeightxWidthxDepth	mm		1,680x635x765
Weight	Unit		kg		173
Heat exchanger	Type				Cross fin coil
Compressor	Type				Hermetically sealed swing compressor
	Output		W		4,600.0
	Piston displacement		m ³ /h		6.16
	Starting method				Direct on line (inverter driven)
Fan	Type				Propeller fan
	Quantity				1
	Air flow rate	Cooling	Nom.	m ³ /min	102
Fan motor	Output		W		350
Sound pressure level	Nom.		dBA		65.0 (1)
Refrigerant	GWP				1.0
	Type 2				R-744
	Charge		kg		3.20
	Control				Electronic expansion valve
Power supply	Phase/Frequency/Voltage		Hz/V		3N~/50/380-415

(1)LRNUN5AY1+LRNUN5AY1 | Compressor 1 | Compressor 2 | Compressor 3 | Factory charge of unit | Only K65 with D.P. 120 bar is allowed to use for AC piping connections. | The safety valve pressure is indicated as gauge pressure. | Only K65 with D.P. 90 bar is allowed to use for refrigeration piping.

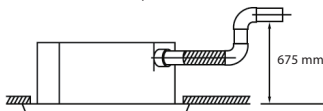
CO₂ Round Flow Cassette

360° air discharge for optimum efficiency and comfort

- › Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs.
- › Two optional intelligent sensors improve energy efficiency and comfort
- › Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- › Bigger flaps and unique swing pattern improve equal air distribution
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- › Lowest installation height in the market: 214mm for class 20-63
- › Optional fresh air intake
- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms

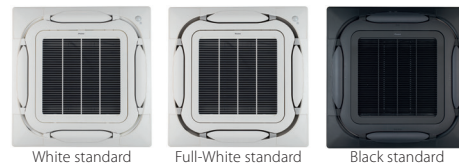


- › Standard drain pump with 675mm lift increases flexibility and installation speed



Round flow cassette panel (7 types)
Daikinflow cassette with 360°
Airflow, wide flaps and optional intelligent sensors

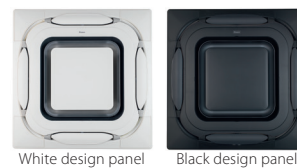
1) Standard Panel (White & Black)



2) Auto-cleaning Panel (White & Black)



3) Designer Panel (White & Black)



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



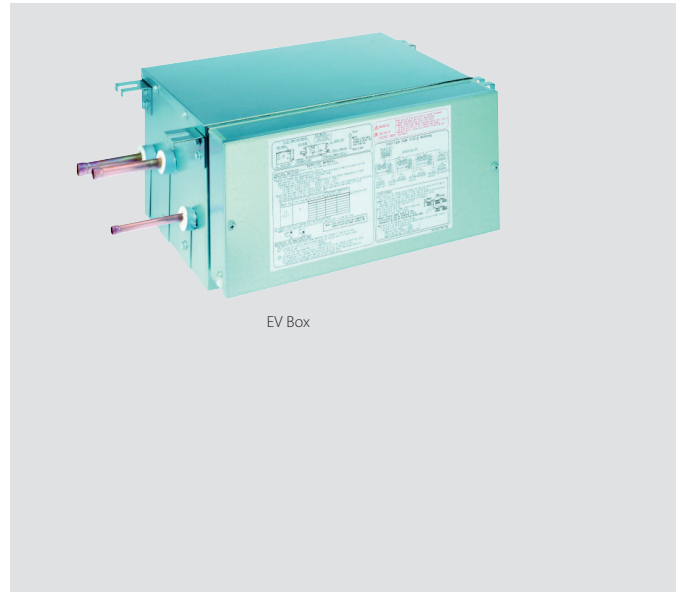
		FXFN-A		50	71	112
Capacity (H tap)	Cooling	Nom.	kW	5.6	8.0	12.5
	Heating	Nom.	kW	6.3	9.0	14.0
Dimensions	Unit	HeightxWidthxDepth		246x840x840		288x840x840
Weight	Unit	gross	kg	29		32
		net	kg	26		29
Fan	Type	Turbo fan				
	Quantity	1				
Air flow rate	Cooling/heating	high/medium/low	m ³ /h	15.5/12.8/10.7	23.2/19.4/13.8	32.7/27.6/20.6
Fan motor	Output	W				
Sound power level	Cooling	dBA				
Sound pressure level	Cooling	high/medium/low	dBA	35/33/31 (4)	40/36/33 (4)	46/43/38 (4)
	Heating	high/medium/low	dBA	36/34/31 (1)(4)	41/37/33 (1)(4)	47/44/39 (1)(4)
Piping connection	Brazing type	Liquid	mm	9.52		
		Gas	mm	12.7		
Operation range	Indoor	Cooling	°C(WB)	14~24 (2)		
		Heating	°C(WB)	15~27		
Refrigerant	Type	R744				
Power supply	Phase/Frequency/Voltage	Hz/V		1~50/60Hz 220~240/220V		

(1) Update of sound pressure level in heating on 2.3.2020 bases on test results (for 71 and 112 class) | (2) update of Cooling max (25 -> 24°C) operation range on 2.3.2020 based on test result | (3) The panel lineup is the same as the existing machine lineup | (4) Sound of designer panel: +3dB

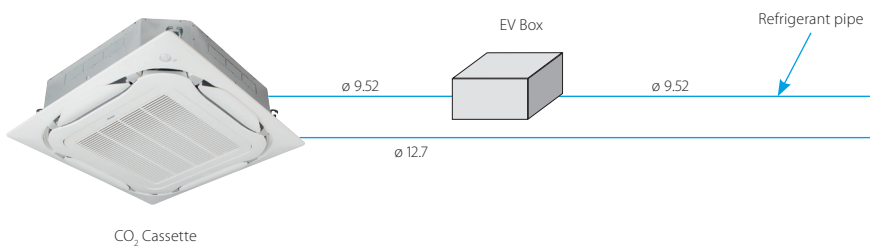
Expansion valve box

EV Box

- > EV Box is the unit which include EV & Control
- > 1 unit of EV box must be used together with 1 unit of CO₂ Cassette.



EV Box



CO₂ Cassette

Combination with Cassette Indoor unit

Cassette indoor unit	FXFN50A2VEB	FXFN71A2VEB	FXFN112A2VEB
EV Box BEV2N112A7V1B	✓	✓	✓

Specifications		BEV2N-A	BEV2N112A7V1B
Power supply			1~, 50/60Hz, 220~240/220V
Dimension	Height	mm	207
	Wide	mm	388
	Depth	mm	326
Mass	Unit	kg	12 (Tentative)
Refrigerant Type			R744 (CO ₂)
Piping connections Liquid	Type		Brazing
	OD	mm	ø 9.52

Concealed ceiling unit with medium ESP for CO₂ Conveni-pack

To respond to all shop requirements for comfort cooling and heating, a wide range of air conditioning indoor units are available

- > Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



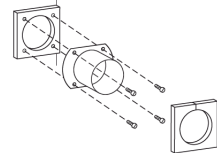
- > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- > Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- > Optional fresh air intake

Fresh air intake opening in casing



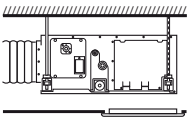
* Brings in up to 10% of fresh air into the room

Optional fresh air intake kit

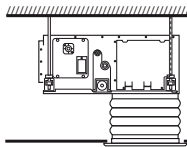


* Allow larger quantities of fresh air to be brought in

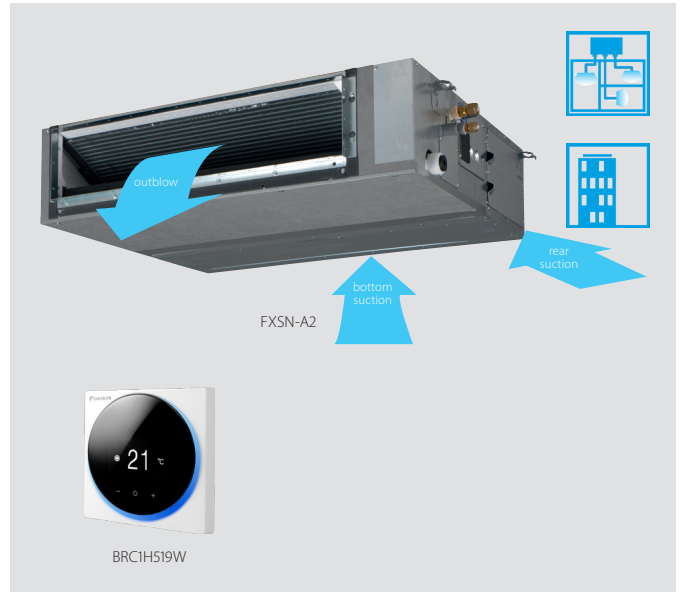
- > Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles



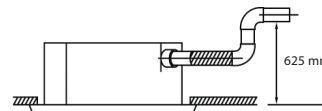
For free use into a false ceiling



For connecting onto a suction canvas (not supplied by Daikin)



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

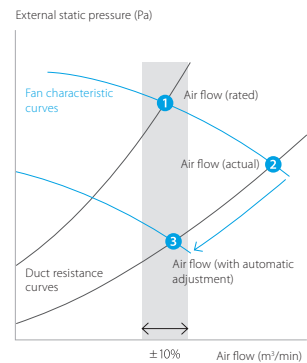


Automatic Airflow Adjustment function

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

Why?

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



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



FXSN-A2

Indoor unit		FXSN	50A2	71A2	112A2
Cooling capacity	Total capacity Nom.	kW	5.60	8.00	12.50
Heating capacity	Total capacity Nom.	kW	6.30	9.00	14.0
Power input - 50Hz	Cooling Nom.	kW	0.186	0.258	0.388
	Heating Nom.	kW	0.181	0.253	0.383
Dimensions	Unit HeightxWidthxDepth	mm	245x700x800	245x1,000x800	245x1,400x800
Weight	Unit	kg	31.0	40.0	50.0
Casing	Material		Galvanised steel plate		
Fan	Air flow rate Cooling	High / Medium / Low m ³ /min	15.2 / 13.0 / 11.0	23.0 / 19.5 / 16.0	36.0 / 31.5 / 26.0
	-50Hz Heating	High / Medium / Low m ³ /min	15.2 / 13.0 / 11.0	23.0 / 19.5 / 16.0	36.0 / 31.5 / 26.0
	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	61	63	66
	High / Medium / Low	dBA	36.0 / 33.0 / 31.0	37.0 / 34.0 / 32.0	40.0 / 38.0 / 34.0
Sound pressure level	Heating High / Medium / Low	dBA	38.0 / 35.0 / 32.0	39.0 / 36.0 / 33.0	42.0 / 40.0 / 38.0
	Type/GWP		R-744/1.0		
Piping connections	Liquid OD	mm	9.52		
	Gas OD	mm	12.7		
	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	16		
Control systems	Infrared remote control		BRC4C65 / BRC4C66		
	Wired remote control		BRC1H52W/S/K		

Contains fluorinated greenhouse gases

Modbus communication kit

The Daikin Modbus Communication Interface lets you fully integrate Daikin ZEAS and Daikin CO₂ Conveni-Pack systems with building control automation networks and other monitoring systems.

The interface allows you to read all the operational parameters and control important values using the Modbus protocol on refrigeration and comfort side. This unifying component transforms CO₂ Conveni-Pack into a transparent, customisable refrigeration unit and means that you can create object-specific and energy-optimised shop concepts, including remote monitoring application.

Pro interfaces can be used to connect up to 7 CO₂ Conveni-Pack units.

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

