



Refrigeration
throughout the
whole supply chain

2025
NEW



Daikin is a strong challenger in the refrigeration market. We can create the ideal solution for each customer's specific situation.

As our products contain the latest technologies we ensure the highest energy efficiency. Our units are rigorously tested in order to provide you reliable operation.

With the acquisition of the Zanotti, Tewis and AHT groups, we expand our refrigeration business providing a larger and more diverse product line for all aspects in the cold chain.



Cold Chain

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Inverter
technology



Scroll
compressor



Screw
compressor



Reciprocating
compressor



Swing
compressor

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations. For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases.

The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane (R-290) and carbon dioxide (R-744).

Refrigerant	GWP AR4	GWP AR5
R-134A	1,430	1,300
R-407C	1,774	1,620
R-407F	1,825	1,670
R-407H	1,490	1,380
R-410A	2,088	1,920
R-448A	1,387	1,270
R-449A	1,397	1,280
R-452A	2,141	1,945
R-290	3	3
R-744	1	1

Cold Chain Expertise

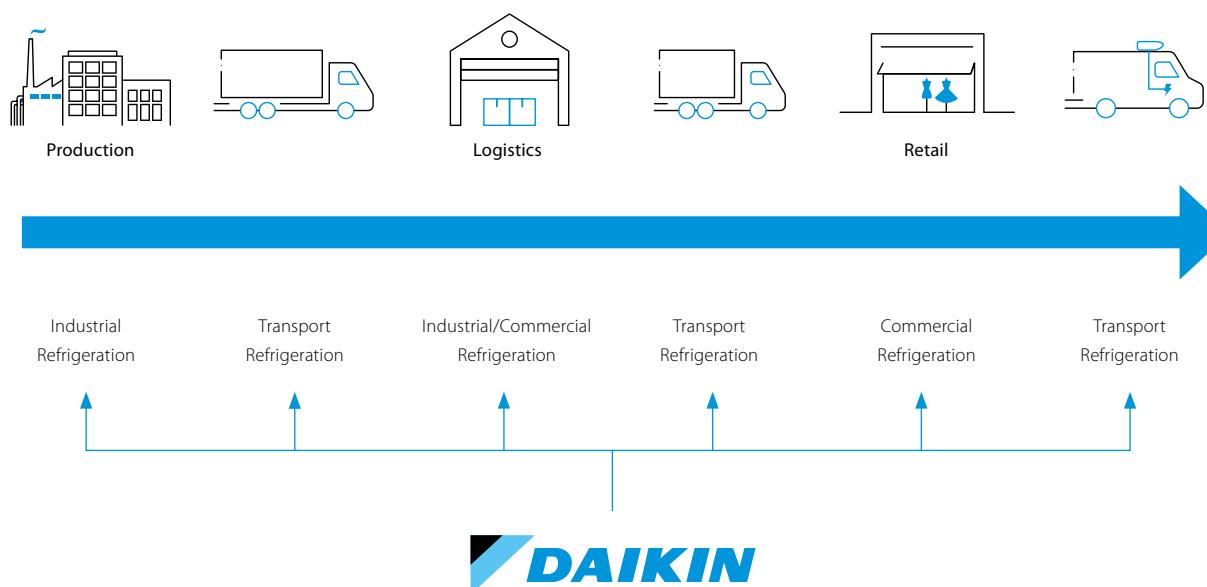
From production to delivery

Reshaping the future of cold chain supply

Combining refrigeration expertise with innovative technology, Daikin's comprehensive product portfolio delivers integrated temperature control solutions that improve quality and safety through every link in the distribution process from point of origin to the final consumer. Our range of products and services provide the flexibility to meet diverse customer needs across a range of applications, during production, storage, retail and transit. Energy-efficient technologies with low-GWP refrigerants provide reliable and cost-effective operation, safeguarding perishable supplies, whatever the climate, while protecting the environment. We will leverage our strengths to cover the entire cold chain.

Covering the entire cold chain

Industrial-Commercial-Transport Refrigeration



Vision 2050

Daikin Environmental Policy

Adopted in 2015, the Paris Agreement contains a target for the latter half of this century of reducing greenhouse gas emissions to net zero and limiting global warming by less than 2°C compared to pre-industrial levels. In the spirit of the Paris Agreement, Daikin has formulated Environmental Vision 2050, with a target of reducing greenhouse gas emissions to net zero by 2050. We have established a reduction target for 2030 and incorporated this into our efforts under the Fusion 25 Strategic Management Plan.

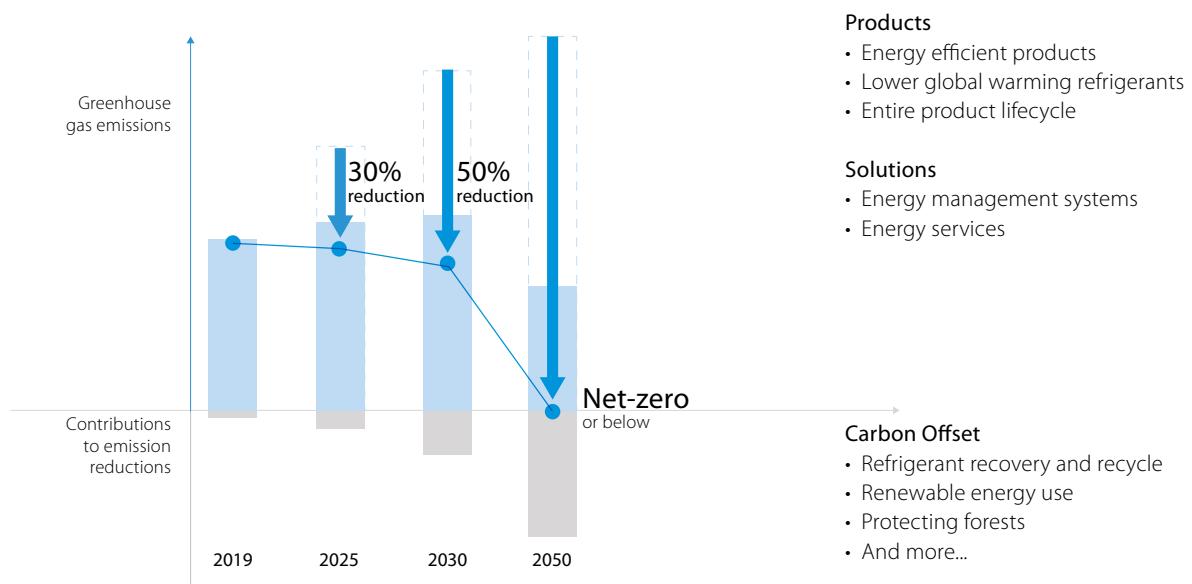
Our Vision 2050

We will effectively eliminate the greenhouse gas emissions generated throughout the entire lifecycle of our products by 2050. Furthermore, we are committed to creating solutions that link society and customers as we work with stakeholders to reduce greenhouse gas emissions to net-zero. Using IoT and open innovation, we will meet the world's needs for air solutions by providing safe and healthy air environments while at the same time contributing to solving global environmental problems.

Refrigeration Medium-Term Outlook

In our Cold Chain business, we are moving towards low-GWP and HFC-free natural refrigerants, while ensuring the correct safety standards are established in our markets. We maintain continuous focus on reducing the energy consumption of all our products. In the Transport Refrigeration industry, we will strive to lead the shift towards electrification and phasing-down of the reliance on combustion engine technologies.

Net-zero product lifecycle



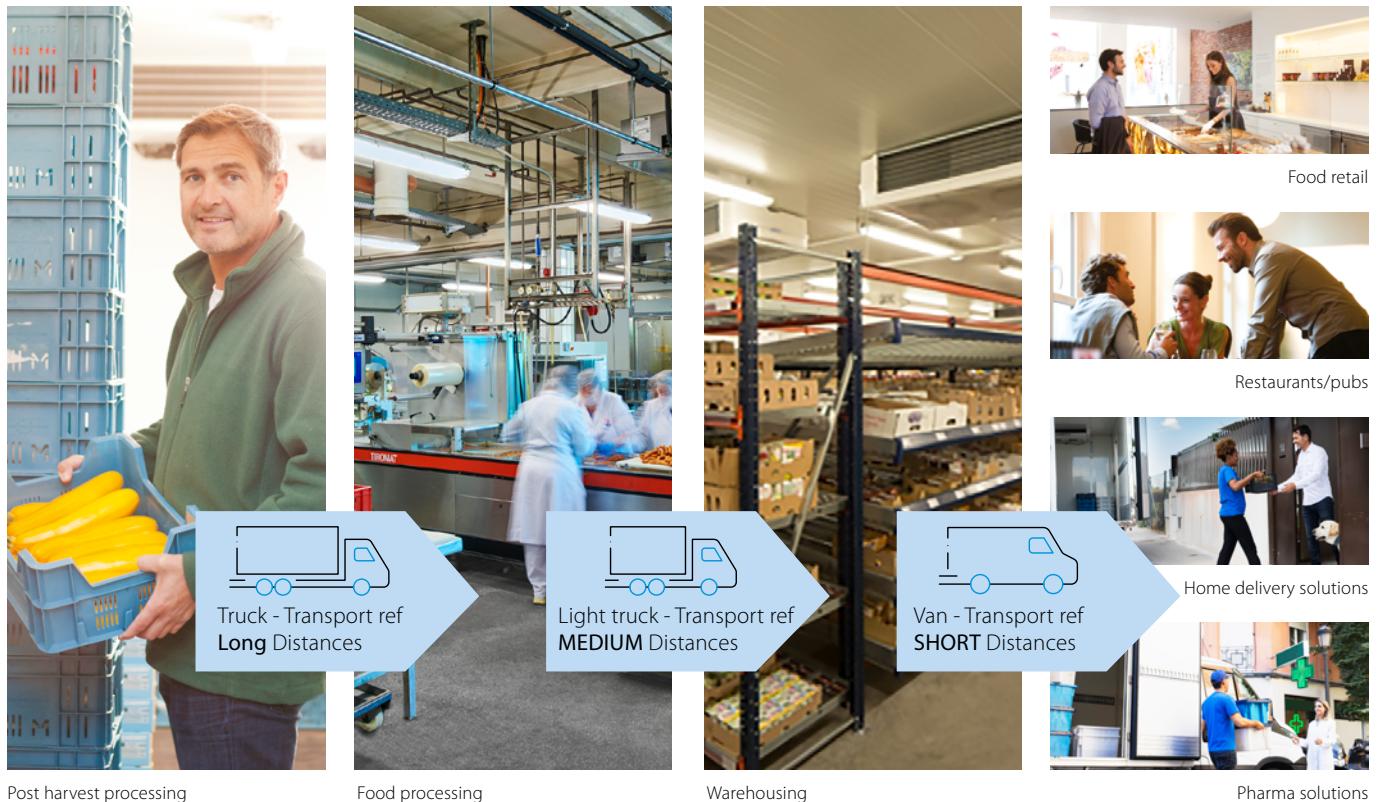


Why choose Daikin?

We know refrigeration inside out

- We have over 100 years of experience in the Refrigeration business.
- We can meet all refrigeration needs from farm to fork, thanks to our wide range of refrigeration products.
- Innovative and reliable own technology and expertise on refrigerants, controls and compressors!
- Your advisor for solutions to meet your needs in line with legislation (F-gas regulation, ecodesign,...) and with focus on reliability, safety, Total Equivalent Warming Impact and running cost.

Controlled temperatures throughout the whole supply chain



We can meet all refrigeration needs from farm to fork

Our extended product line-up is able to provide solutions for:



Daikin Refrigeration – United Beyond Cold



Daikin Europe N.V. is a major European producer of air conditioners, heating systems and refrigeration equipment, with approximately 5,500 employees throughout Europe and major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey and the UK. Globally, Daikin is renowned for its pioneering approach to product development and the unrivalled quality and versatility of its integrated solutions.



AHT develops, manufactures and sells refrigerating and freezing showcases specifically suited for food retailers. Leading the “plug-in” type showcases segment, AHT leads the market by the active launch of new products corresponding to evolving store layouts. Furthermore, utilizing its technological capabilities and business resources, AHT serves large accounts which include major food retail chains worldwide.



Tewis is a leading company in the design and engineering of refrigeration systems. Along with their expertise in customising controls (including monitoring), Tewis offers total comprehensive solutions for Refrigeration and Climate applications. Over the last few years, Tewis has focused on developing a range of CO₂ based refrigeration systems and has established a long-lasting relationship with key Spanish and Portuguese food retailers. Its mission and philosophy to date has been to achieve high reliability and realise remarkable energy savings for their customer base.



Hubbard Products Ltd., is one of the UK's leading designers, manufacturers and suppliers of commercial cooling equipment and has earned an enviable Global reputation for innovation and design-led excellence.



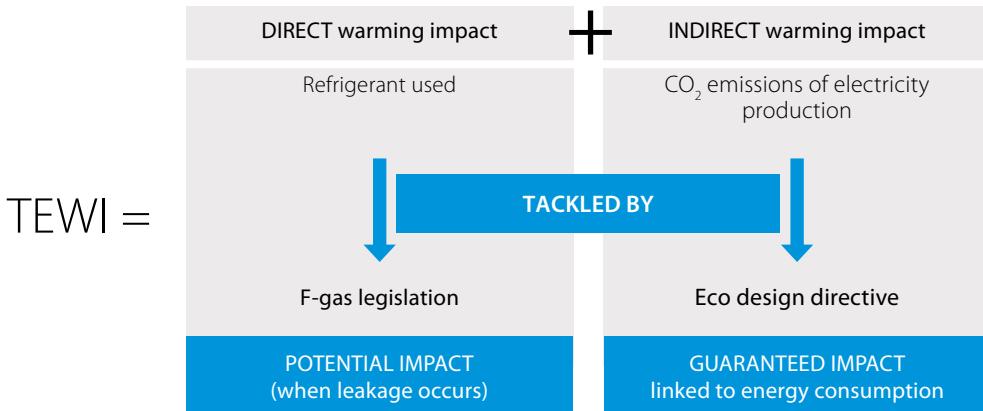
Zanotti is a refrigeration specialist founded in 1962. With over 50 years of experience in food storing services covering the needs of commercial and industrial refrigeration, but also the needs of the transportation of fresh and frozen products. Zanotti changed the refrigeration world from the early days with the introduction of the Uniblock, an all in one plug and play refrigeration unit for cold rooms. Today they employ more than 600 people, with three production facilities and an annual turnover of approx 130 million Euro.

Meeting customer needs!

Depending on type of application, location and customers interest/values, the optimal refrigeration solution for the customer can potentially be different! Thanks to our wide product portfolio, Daikin can offer what a customer really needs!

The DNA of our Advice is:

- Safety and Reliability
- Reducing the Total Equivalent Warming Impact (TEWI)



Reduction of CO₂ emissions is one of the main priorities for the future. A refrigeration plant's global warming effect is the combination of the possible refrigerant losses (Direct warming impact) and the CO₂ emissions caused by electricity production (Indirect warming impact). Country per country situation is different, however on average in Europe CO₂ release at energy production is quite high (average 0.45kg/kwh of Electrical Energy)! Due to this, there is a significant greenhouse effect over the lifetime of the refrigeration plant and efficiency is thus one of the crucial focus points in reducing TEWI!

When various refrigeration solutions are being compared it is thus important to take into account both aspects as in some cases optimizing the direct warming impact (eg: changing refrigerant) will have an opposite effect on the indirect warming impact!

- Reducing your running cost

Through focus on reliability & quality, through extensive testing on each product, and energy efficiency our aim is to reduce your operational cost to the absolute minimum!





E. Leclerc, hypermarket
ZEAS



Beer cooling facility,
chilled with ZEAS



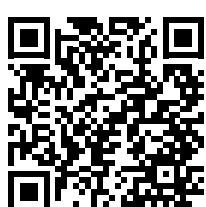
Edeka, supermarket
Conveni-pack (2) and ZEAS (1)



Coombe Fisheries
High-performance Zanotti LT refrigeration equipment



Ziggo dome, event hall
ZEAS for cooling (6) and freezing (2)





Monoblocks

LMS/LMC

The monoblock of the future

Inverter technology & EEV

Benefits

- Efficiency – lower running costs (up to 40%)
- Stable cold room temp (less dehumidification and better food conservation)
- Less defrost cycles (more energy savings)
- No peak currents



Smart controls

Benefits

- Smart controls for end user
- Advance controls for installers including remote monitoring (life)



3 Year warranty

Benefits

- Peace of mind that ROI will take place



- One unit for all needs and applications (low and medium temp)

Benefits

- Flexible use of Cold room
- Lower stock for Wholesalers

- R290 + Low refrigerant charge

Benefits

- 1. Daikin quality
- Future proof (GWP = 0.02)
- Low ecological footprint
- No specific safety countermeasure required

- Ceiling- and Wall-mounted range

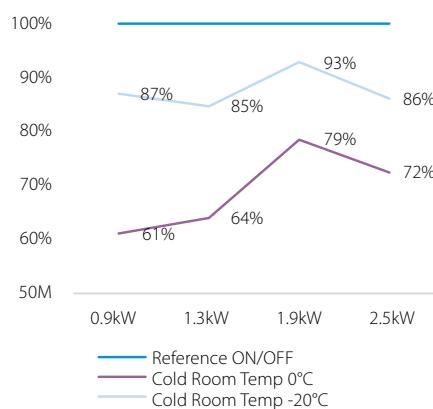
Benefits

- Installation flexibility
- A monoblock for any situation
- Combinable with other solution (SPI)

Proven efficiency in all climate areas

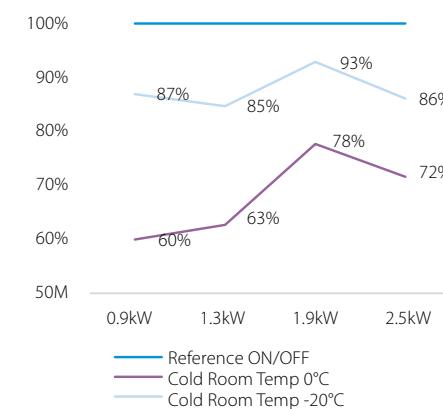
Cold climate: Stockholm

Yearly energy consumption



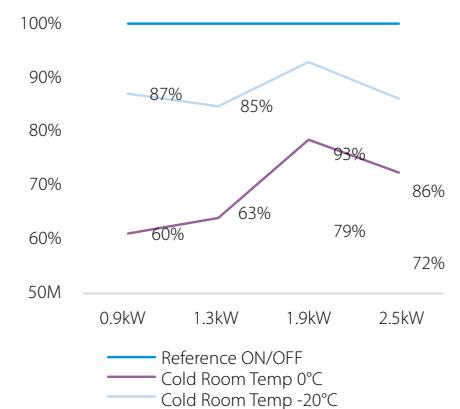
Average climate: Munich

Yearly energy consumption



Hot climate: Madrid

Yearly energy consumption



The full controls of LMC in your hands

End user: Extended control



- Extended functionalities and controls over the LMS/LMC without the need to get close to the unit



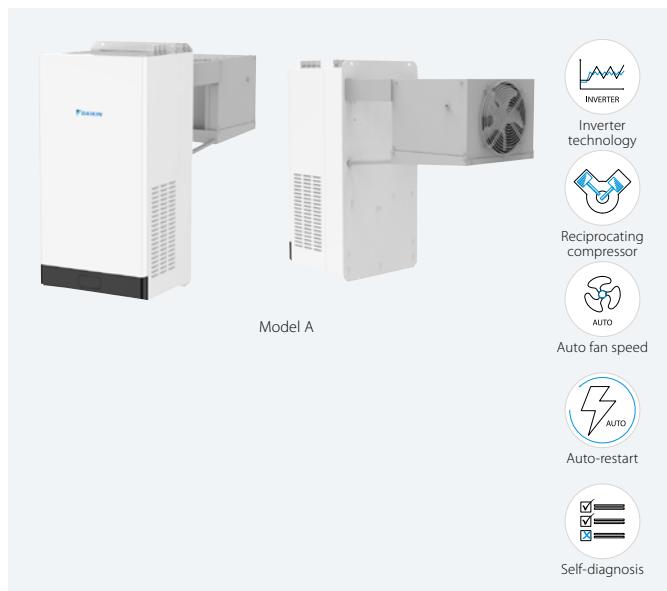
Installer: Full control

- Extended functionalities and controls over the LMS/LMC only accessible for the installer
- Real Remote monitoring, enabling installers to monitor their customers units real-time

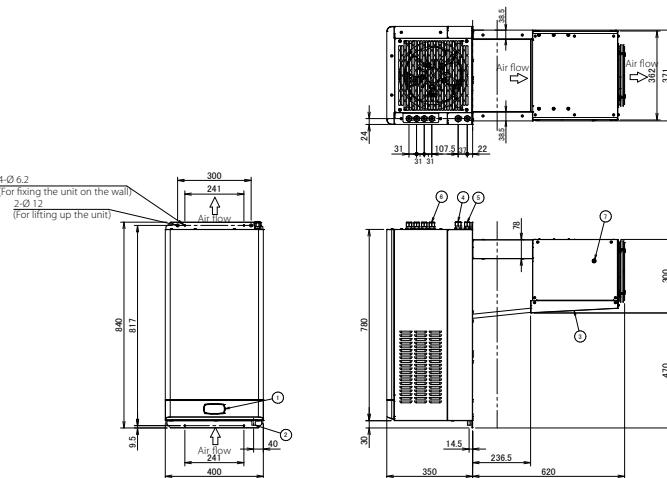
Inverter Monoblock for Refrigeration | Model A

Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- **CE** certified
- Microchannel condenser
- Filter dryer
- Condenser fan ON/OFF controlled by temperature probe
- Electronic thermal expansion valve
- Condensate evaporation tray
- Hot gas defrost
- Propane refrigerant charge => 150gr
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- Automatic elimination of condensation water
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater



- Inverter technology
- Reciprocating compressor
- Auto fan speed
- Auto-restart
- Self-diagnosis



LMSEY

	LMSEY1A-AVM01	LMSEY1A09AVM01	LMSEY1A13AVM01
Dimensions of the unit	Height mm Depth mm Width mm	780	970
Dimensions of the packaged unit	Height mm Depth mm Width mm	1,030	1,050
Weight of the unit	Weight kg	52	66
Weight of the packaged unit	Weight kg	335	375
Characteristics of the hole where to accommodate the units (through the wall installation)	Height mm Width mm	83	43
Characteristics of the holes where to accommodate the units (straddle installation)	Height mm Width mm	R290	3
Refrigerant	Type GWP	1	0.15
Nº of circuits		230/1/50-60	207V/253V
Refrigerant	Charge per circuit kg	807 (MT) / 523 (LT)	1,103 (MT) / 750 (LT)
Power supply	Voltage/phase/frequency V/ph/Hz	3,593 (MT) / 2,357 (LT)	4,912 (MT) / 3,380 (LT)
Voltage range (Min/Max)	V	5.9	7.6
Rated input power	W	15	15
Rated input current	A	9.3	9.3
MCA (Max Current Amps)	A	Hermetic reciprocating inverter driven	
MFA (Max Fuse Amps)	A		
TOCA (Total overcurrent Amps)	A		
Compressor	Type		
Air flow rate condenser (1)	m³/h	555	
Air flow rate evaporator (1)	m³/h	597	
Air throw evaporator (2)	m	9.6	
PED category		1	
IP category		20	
Defrost	Type	Hot gas	
Operating sound pressure (3)	dBA	39.4	
Operation range ambient temp.	Min °C Max °C	5	45
Operation range cold room temp.	Min °C Max °C	-25	10

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

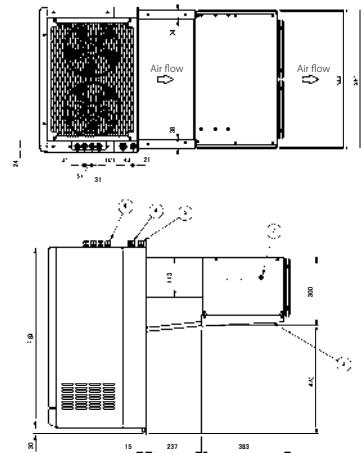
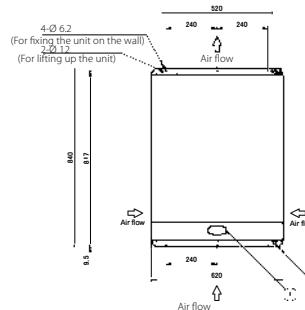
Inverter Monoblock for Refrigeration | Model B

Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- certified
- Microchannel condenser
- Filter dryer
- Condenser fan ON/OFF controlled by temperature probe
- Electronic thermal expansion valve
- Condensate evaporation tray
- Hot gas defrost
- Propane refrigerant charge (each circuit) => 130gr
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- Automatic elimination of condensation water
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater



LMSEY



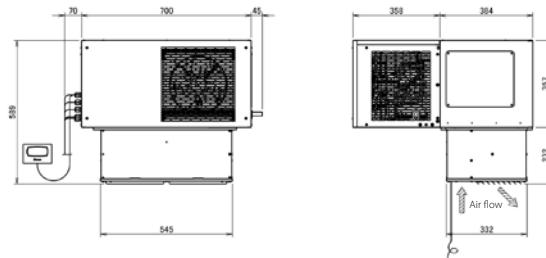
	LMSEY2A-AYE01	LMSEY2A19AYE01	LMSEY2A25AYE01
Dimensions of the unit	Height mm Depth mm Width mm	780	1,040
Dimensions of the packaged unit	Height mm Depth mm Width mm	1,030	1,120
Weight of the unit	Weight kg	83.5	107.5
Weight of the packaged unit	Weight kg		
Characteristics of the hole where to accommodate the units (through the wall installation)	Height mm Width mm	335	595
Characteristics of the holes where to accommodate the units (straddle installation)	Height mm Width mm	177	43
Refrigerant	Type GWP	R290 3	2
Nº of circuits		0.13	
Refrigerant	Charge per circuit kg	400/3/50-60	360V/440V
Power supply	Voltage/phase/frequency V/ph/Hz		
Voltage range (Min/Max)	V	1,765 (MT) / 1,208 (LT)	2,275 (MT) / 1,563 (LT)
Rated input power	W	4,645 (MT) / 3,179 (LT)	5,987 (MT) / 4,113 (LT)
Rated input current	A	11.3	14.6
MCA (Max Current Amps)	A		
MFA (Max Fuse Amps)	A	25	
TOCA (Total overcurrent Amps)	A	18.5	
Compressor	Type	Hermetic reciprocating inverter driven	
Air flow rate condenser (1)	m³/h	939	
Air flow rate evaporator (1)	m³/h	1,114	
Air throw evaporator (2)	m	9.6	
PED category		1	
IP category		20	
Defrost	Type	Hot gas	
Operating sound pressure (3)	dBA	43.9	
Operation range ambient temp.	Min °C Max °C	5 45	
Operation range cold room temp.	Min °C Max °C	-25 10	

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

Inverter Monoblock for Refrigeration | Model C

Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- **CE** certified
- Filter dryer
- Electronic expansion valve
- Hot gas defrost
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater
- Remote control panel (as standard)
- 5m cable for remote control panel
- Microchannel air cooled condenser



LMCEY

LMCEY1A13AVM01		
Dimensions of the unit	Height	578
	Depth	742
	Width	700
Dimensions of the packaged unit	Height	754
	Depth	780
	Width	882
Weight of the unit	Weight	60
Weight of the packaged unit	Weight	81
Characteristics of the hole where to accommodate the units (through the wall installation)	Height	337
	Width	550
Refrigerant	Type	R-290
	GWP	3
Nº of circuits		1
Refrigerant	Charge per circuit	0.15
Power supply	Voltage/phase/frequency	V/ph/Hz
Voltage range (Min/Max)		230/1/50-60
MCA (Max Current Amps)		230 +/-10%
MFA (Max Fuse Amps)		7.6
Compressor	Type	Hermetic reciprocating inverter driven
Air flow rate condenser (1)	m³/h	532
Air flow rate evaporator (1)	m³/h	336
Air throw evaporator (2)	m	1.3
PED category		Art4.3
IP category		20
Defrost	Type	Hot gas
Operating sound pressure (3)	dBA	38
Operation range ambient temp.	Min	5
	Max	45
Operation range cold room temp.	Min	-25
	Max	10

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

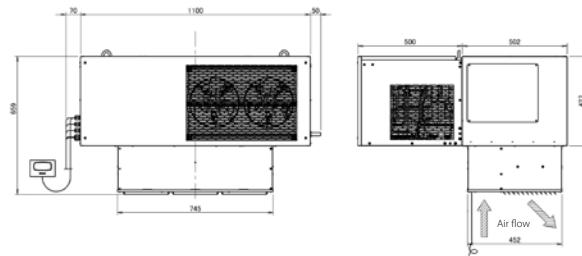
Inverter Monoblock for Refrigeration | Model D

Standard equipment

- Inverter driven hermetic reciprocating compressor
- 50/60 Hz power supply
- **CE** certified
- Filter dryer
- Electronic expansion valve
- Hot gas defrost
- Electronic control board
- Electrical switchboard with protection fuses
- Fixed calibration HP switch with automatic reset
- 5 m cable for power supply
- 2 m cold room lighting cable (Light bulb and bulb as option)
- 5 m micro-switch door cable (Microswitch as option)
- 5 m cable for door heater
- Remote control panel (as standard)
- 5m cable for remote control panel
- Microchannel air cooled condenser



LMCEY



		LMCEY2A19AYE01	LMCEY2A25AYE01
Dimensions of the unit	Height	mm	659
	Depth	mm	1,002
	Width	mm	1,100
Dimensions of the packaged unit	Height	mm	881
	Depth	mm	1,061
	Width	mm	1,300
Weight of the unit	Weight	kg	101
Weight of the packaged unit	Weight	kg	154
Characteristics of the hole where to accommodate the units (through the wall installation)	Height	mm	458
	Width	mm	750
Refrigerant	Type		R-290
	GWP		3
N° of circuits			2
Refrigerant	charge per circuit	kg	0.13
Power supply	Voltage/phase/frequency	V/ph/Hz	400/3/50-60
Voltage range (Min/Max)	V		400 +/-10%
MCA (Max Current Amps)	A		11.3
MFA (Max Fuse Amps)	A		25
Compressor	Type	Hermetic reciprocating inverter driven	Hermetic reciprocating inverter driven
Air flow rate condenser (1)	m³/h	1,030	1,030
Air flow rate evaporator (1)	m³/h	865	865
Air throw evaporator (2)	m	1.7	1.7
PED category		Art4.3	Art4.3
IP category		20	20
Defrost	Type	Hot gas	Hot gas
Operating sound pressure (3)	dBA	44	44
Operation range ambient temp.	Min °C	5	5
	Max °C	45	45
Operation range cold room temp.	Min °C	-25	-25
	Max °C	10	10

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746

On/Off Monoblock for Refrigeration

Standard equipment

- 1 year warranty
- 50 Hz power supply
- **CE** certified
- Ambient working temperature: +5°C ÷ +45°C
- Cold room working temperature: MT +10°C / -5°C | LT -15°C / -25°C
- MT and LT in separate models
- Hermetic reciprocating compressor
- Suitable for 100mm and 150mm panel
- Fin&tube condenser
- Fin&tube evaporator
- Filter dryer
- Thermal expansion valve
- Condensate evaporation tray with automatic elimination of condensation water
- Fixed calibration HP switch with automatic reset
- Hot gas defrost
- Propane refrigerant charge 150 gr max per circuit
- Electronic control board
- Master slave connection
- Serial output
- Predisposition for connection of "Man in cold room" alarm



Ceiling
mounted version
coming soon!

- 5m cable for power supply
- 2m cold room lighting cable (Light bulb holder and bulb as option)
- 5m microswitch door cable (Microswitch as option)
- 5m cable for door heater (LT units only)

Application	Medium temperature units								Low temperature units							
	MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	MPS3220YA11A	BPS3112YA11A	BPS3115YA11A	BPS3224YA11A	BPS3230YA11A	MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	MPS3220YA11A	BPS3112YA11A	BPS3115YA11A	BPS3224YA11A	BPS3230YA11A
Dimensions of the unit	Height	mm	745						850							
	Depth	mm	935							1,010						
	Width	mm	400							650						
Dimensions of the packaged unit	Height	mm	982							1,082						
	Depth	mm	985							1,040						
	Width	mm	445							684						
Weight of the unit	Weight	kg	50		87.6	93			87.6							105.4
Weight of the packaged unit	Weight	kg	62.5		110.1	115.5			110.1							127.9
Characteristics of the hole where to accommodate the units (through the wall installation)	Height	mm	335							335						
	Width	mm	375							585						
Characteristics of the holes where to accommodate the units (straddle installation)	a	mm	43							40						
	b	mm	288							470						
	c	mm	43							60						
	d	mm	88							145						
	e	mm							19							
	f	mm							28							
	g	mm			321	320	420		320							420
Refrigerant	Type								R290							
	GWP								3							
N° of circuits					1		2		1							2
Refrigerant	Charge per circuit	kg							0.15 max / circuit							
Power supply	Voltage/phase/frequency	Vac/ph/Hz							230/IN~/50Hz							
Voltage range (Min/Max)	V								207-250							
Rated input power	W	580	750	1,430	1,840	1,090	1,240	1,740	2,040							
Rated input current	A	3.76	3.68	6.86	8.58	5.62	6.06	9.22	10.1							
Max input power	W	900	920	1,680	2,140	1,310	1,680	2,250	2,985							
MCA (Max Current Amps)	A	4.89	4.99	9.12	11.62	7.12	9.12	12.22	16.22							
MFA (Max Fuse Amps)	A						10									
TOCA (Total overcurrent Amps)	A	23	29	49	68	37	43	72	84							
Compressor	Type								Hermetic reciprocating (ON/OFF controlled)							
Air flow rate condenser (1)	m³/h	530	530	930	1,030	930	930	1,030	1,030							
Air flow rate evaporator (1)	m³/h	590	590	1,150	1,230	1,150	1,150	1,230	1,230							
Air throw evaporator (2)	m	5	5	5	5	5	5	5	5							
PED category									I							
IP category									IPX0							
Defrost									Hot gas							
Condenser operating sound pressure (3)	dBA (10m)		38.5						47.5							
Operation range ambient temperature	Min	°C							5							
	Max	°C							45							
Operation range cold room temperature	Min	°C			-5											-25
	Max	°C			10											-15

(1) According to EN ISO 5801 | (2) According to CECOMAF GT 6-001 (final velocity = 0.25 m/s) | (3) According to UNI EN ISO 3746



Water-cooled monoblock system for low and medium temperature refrigeration

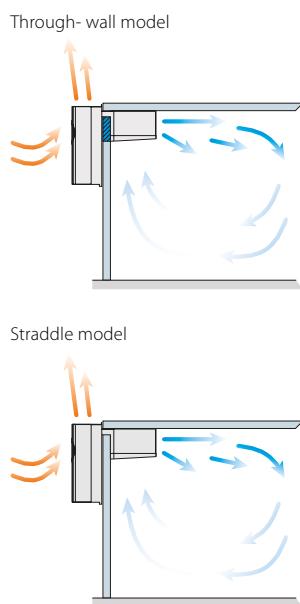
For wall mounted installation in small and medium sized cold rooms

- Rapid mounting on the wall of the cold room by straddle mounting, which is ideal for new installations or through-wall mounting and refurbishment projects
- Metallic grey coloured finish of the outdoor unit
- The white colour of the evaporator blends unobtrusively with the cold room walls
- BHPE condenser (Brazed Plate Heat Exchanger)
- The units are provided with a control panel with an easy-to-use interface

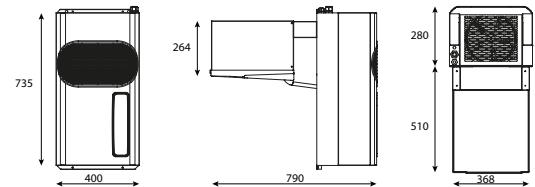


R290
Refrigerant
(propane)

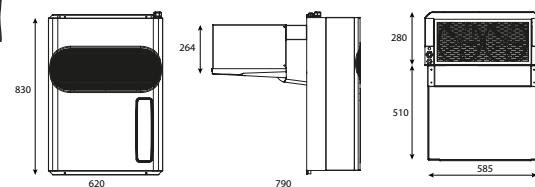
Installation type



MGM1280-BGM0870



MGM2210



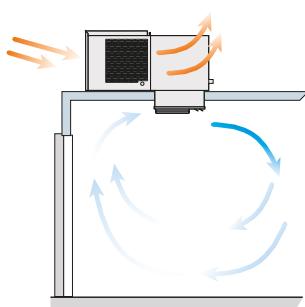
Medium temperature units		MGM1280Y1WAA	MGM2210Y1WAA
Refrigerant		R290	
Power supply	V/Ph~/Hz	220-230/1N~/50	
HP compressor		0.56	0.9
Defrost		Hot gas	
PED category		0	
Working temperature	°C	+10/-5	
Cooling capacity [TC=0°C TW=32°C]	Watt	1,338	2,266
Low temperature units		BGM0870Y1WAA	
Refrigerant		R290	
Power supply	V/Ph~/Hz	220-230/1N~/50	
HP compressor		0.9	
Defrost		Hot gas	
PED category		0	
Working temperature	°C	-15/-25	
Cooling capacity [TC=-20°C TW=32°C]	Watt	881	

Water-cooled monoblock system for low and medium temperature refrigeration

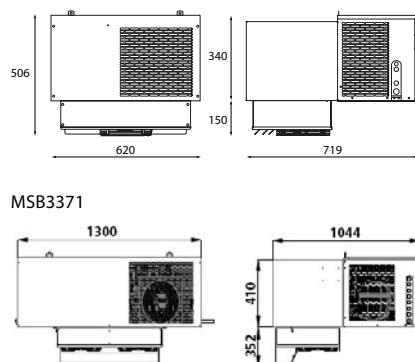
For roof mounted installation in small and medium sized cold rooms

- Rapid mounting on the roof of the cold room
- Ceiling assembly leaves the space inside the cold room completely free
- The white colour of the evaporator blends unobtrusively with the cold room walls
- Extremely fast to assemble, reducing installation time and cost
- Best surface-to-capacity ratio
- BHPE condenser (Brazed Plate Heat Exchanger)
- Remote electronic command station with easy-to-use user interface programmable according to various system requirements

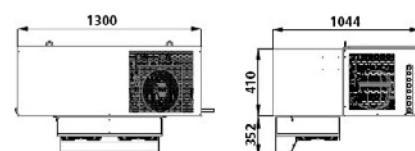
Installation type



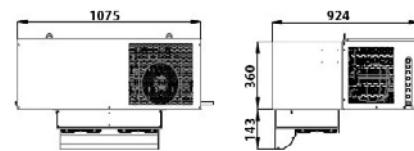
MSB1310 - BSB0870



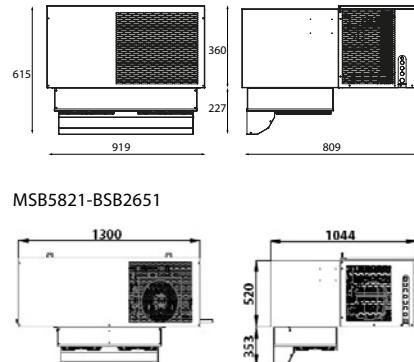
MSB3371



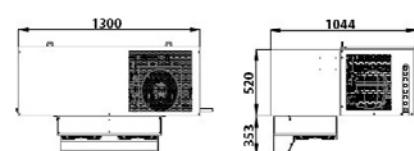
BSB1710



MSB2181



MSB5821-BSB2651

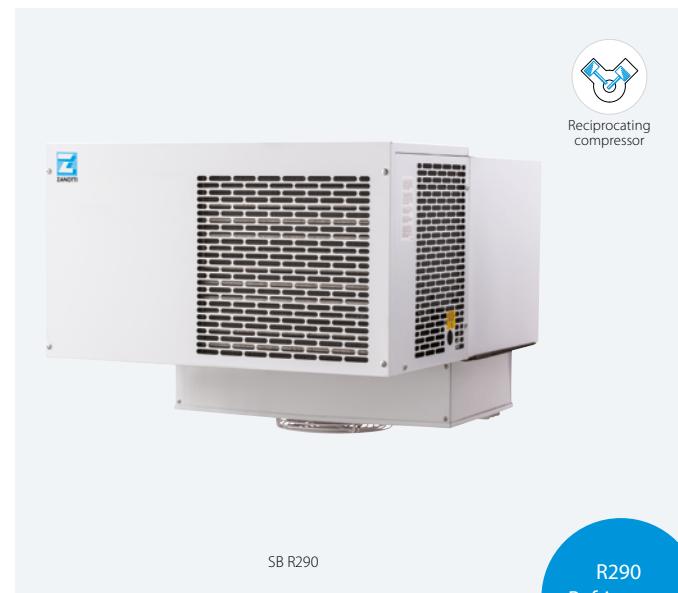


Medium temperature units	MSB1310Y1WAA	MSB2181Y1WAA	MSB3371Y2WAA	MSB5821Y3WBA
Refrigerant			R290	
Power supply	V/Ph~/Hz	220-230/IN~/50		380-400/3N~/50
HP compressor	0.56	0.9	2x0.56	3x0.9
Defrost		Hot gas		
PED category		0		
Working temperature	°C	+10/-5		
Cooling capacity [TC=0°C TW=32°C]	Watt	1,348	2,231	3,563
				5,988
Low temperature units	BSB0870Y1WAA	BSB1710Y2WAA	BSB2651Y3WBA	
Refrigerant		R290		
Power supply	V/Ph~/Hz	220-230/IN~/50		380-400/3N~/50
HP compressor	0.9	2x0.9		3x0.9
Defrost		Hot gas		
PED category		0		
Working temperature	°C	-15/-25		
Cooling capacity [TC=-20°C TW=32°C]	Watt	877	1,747	2,851

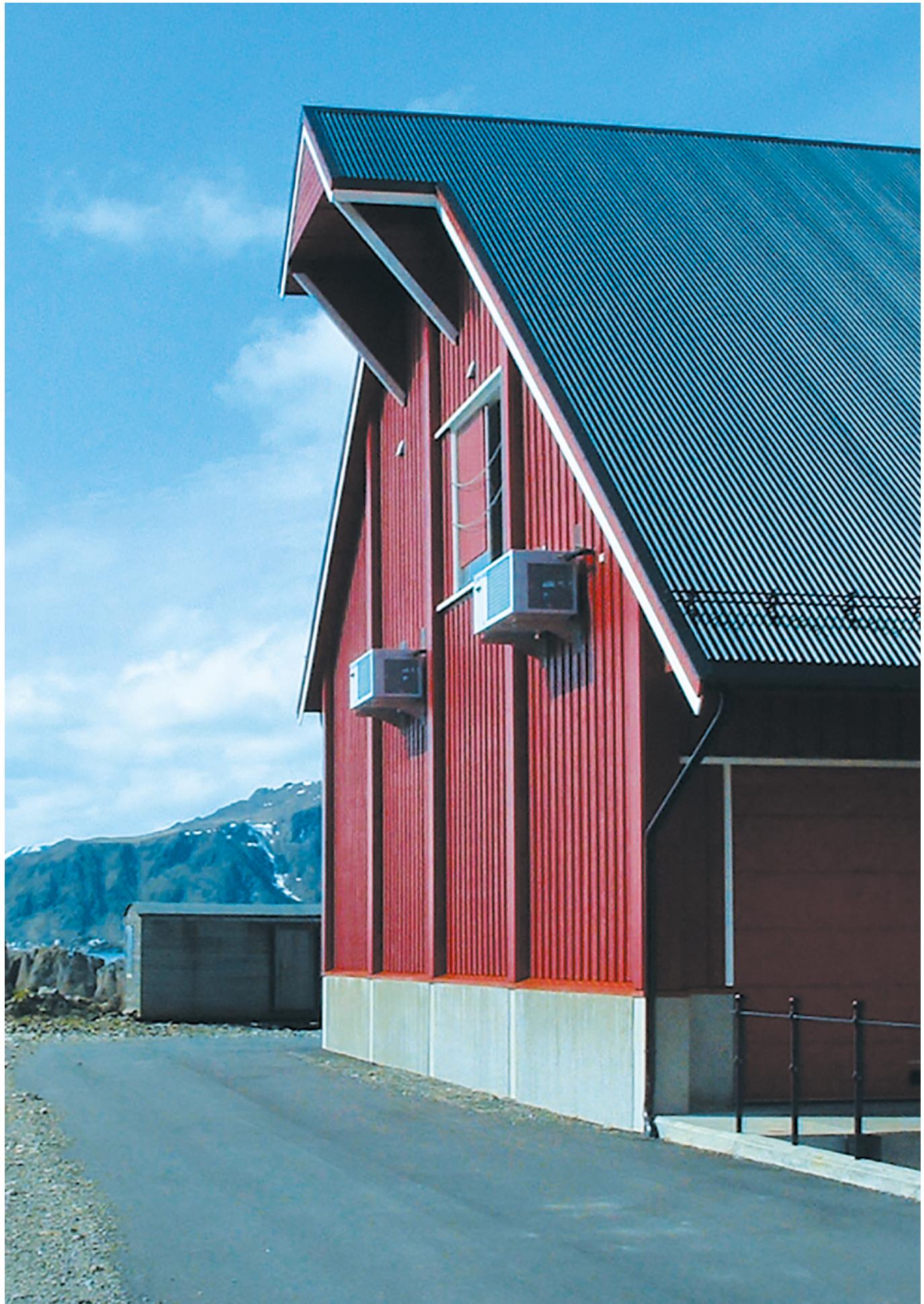


Reciprocating compressor

R290
Refrigerant
(propane)



SB R290



Bi-Blocks / Splits

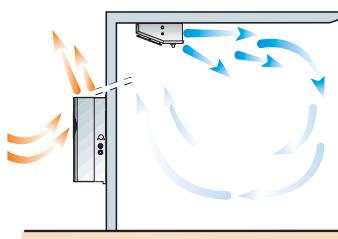
Refrigeration split type units designed for use in small to medium rooms

Condensing unit for wall mounted installation

- Wide versatility of installation of condensing part and evaporating part
- Condensing part body with metallic grey finishing
- The white color of the evaporator part blends discreetly with the walls of the cold room
- Compressor compartment is ready to be insulated with suitable sound-absorbing material to reduce noise levels
- Micro-channel condensers available to reduce the refrigerant charge as much as possible and ensure higher energy efficiency



Installation type



GS

Medium temperature units		SB.MGS103EA12XX	SB.MGS105EA12XX	SB.MGS106EA12XX	SB.MGS107EA12XX	SB.MGS110EA12XX	SB.MGS211EA12XX	SB.MGS212EB12XX	SB.MGS315EB13XX	SB.MGS320EB13XX	
Refrigerant			R134a								
Power supply	V/Ph~/Hz	220-230/1N~/50		380-400/3N~/50							
HP compressor	1/2		5/8	3/4	1	1.2	2.3	3	3.5		
Defrost			Electric								
PED category			0								
Working temperature °C			+10 ÷ -5								
Cooling capacity Watt [TC=0°C TA=30°C]	855		978	1,120	1,315	1,351	1,806	2,034	3,079	3,351	
Low temperature units		SB.BGS110DA12XX	SB.BGS112DA12XX	SB.BGS117DA12XX	SB.BGS218DA12XX	SB.BGS220DB12XX	SB.BGS320DB13XX	SB.BGS330DB13XX	SB.BGS340DB13XX		
Refrigerant			R452A								
Power supply	V/Ph~/Hz	220-230/1N~/50		380-400/3N~/50							
HP compressor	1		1.2	1.7	2	3	4				
Defrost			Electric								
PED category			0						2		
Working temperature °C			-15 ÷ -25								
Cooling capacity Watt [TC=-20°C TA=30°C]	679		889	1,155	1,429	1,688	2,491	2,701	3,160		

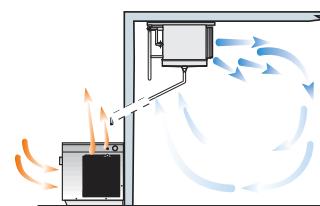
Split units suitable for outdoor installation and for small-medium cold rooms

Condensing unit for floor standing or roof mounted installation

- Condensing unit for floor or roof installation and evaporator for ceiling mounting
- Thermostatic expansion valve for an optimal refrigerant flow rate and for higher energy efficiency
- Extremely quick mounting thanks to the quick coupling joints
- Reduced installation times and costs
- Best surface-capacity ratio



Installation type



DB-O

Medium temperature units	SB.MDB106EA12XX	SB.MDB107EA12XX	SB.MDB212EB12XX	SB.MDB315EB13XX	SB.MDB320EB13XX	SB.MDB425EB13XX
Refrigerant	R134a					
Power supply V/Ph~/Hz		220-230/1N~/50			380-400/3N~/50	
HP compressor	3/4	1	1.2	3	3.5	4
Defrost				Electric		
PED category				1		
Working temp. °C				+10 ÷ -5		
Cooling capacity [TC=0°C TA=30°C] Watt	1,140	1,422	1,816	3,188	3,492	3,948
Cooling capacity [TC=-20°C TA=30°C] Watt			-			

Medium temperature units	SB.MDB530EB13XX	SB.MDB635EB13XX	SB.MDB645EB13XX	SB.MDB706EB13XX	SB.MDB707EB13XX
Refrigerant	R134a				
Power supply V/Ph~/Hz		380-400/3N~/50			
HP compressor	3.7	4.8	6.3	7.4	9.5
Defrost			Electric		
PED category			2		
Working temp. °C			+10 ÷ -5		
Cooling capacity [TC=0°C TA=30°C] Watt	5,070	7,293	8,779	11,014	14,069
Cooling capacity [TC=-20°C TA=30°C] Watt			-		

Low temperature units	SB.BDB110DA12XX	SB.BDB112DA12XX	SB.BDB117DA12XX	SB.BDB218DA12XX	SB.BDB220DB12XX	SB.BDB320DB13XX	SB.BDB330DB13XX
Refrigerant	R452A						
Power supply V/Ph~/Hz		220-230/1N~/50			380-400/3N~/50		
HP compressor	1	1.5	1.7	2		3	
Defrost			Electric				
PED category			1				
Working temp. °C			-15 ÷ -25				
Cooling capacity [TC=0°C TA=30°C] Watt			-				
Cooling capacity [TC=-20°C TA=30°C] Watt	662	905	1,164	1,436	1,719	2,384	2,581

Low temperature units	SB.BDB440DB13XX	SB.BDB445DB13XX	SB.BDB550DB13XX	SB.BDB660DB13XX	SB.BDB680DB13XX	SB.BDB710DB13XX	SB.BDB713DB13XX
Refrigerant	R452A						
Power supply V/Ph~/Hz		380-400/3N~/50					
HP compressor	3.5	4	3.7	5.5	7.5	9.6	11
Defrost			Electric				
PED category			2				
Working temp. °C			-15 ÷ -25				
Cooling capacity [TC=0°C TA=30°C] Watt			-				
Cooling capacity [TC=-20°C TA=30°C] Watt	3,283	3,604	4,925	7,492	8,940	11,537	12,735

* Only for external use

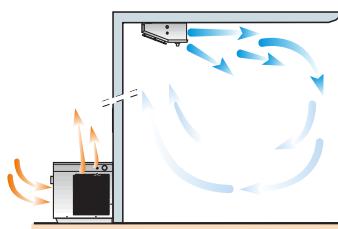
Refrigeration split type units suitable for small-medium cold rooms

Condensing unit for floor standing or roof mounted installation

- Condensing unit for floor or roof installation and evaporator for ceiling mounting
- Extremely quick mounting thanks to the quick coupling joints
- Reduced installation times and costs
- Best surface-capacity ratio



Installation type



SP-O

Medium temperature units	SB.MSP106EA12XX	SB.MSP107EA12XX	SB.MSP212EA12XX	SB.MSP315EB13XX	SB.MSP320EB13XX		
Refrigerant			R134a				
Power supply	V/Ph~/Hz	220-230/1N~/50		380-400/3N~/50			
HP compressor	3/4	1	1.2	3	3.5		
Defrost			Electric				
PED category			0				
Working temperature	°C		+10 ÷ -5				
Cooling capacity	Watt	1,140	1,422	1,816	3,188	3,492	
[TC=0°C TA=30°C]							
Low temperature units	SB.BSP110DA12XX	SB.BSP112DA12XX	SB.BSP117DA12XX	SB.BSP218DA12XX	SB.BSP220DB12XX	SB.BSP320DB13XX	SB.BSP330DB13XX
Refrigerant			R452A				
Power supply	V/Ph~/Hz	220-230/1N~/50		380-400/3N~/50			
HP compressor	1	1.5	1.7	2	3		
Defrost			Electric				
PED category			0				
Working temperature	°C		-15 ÷ -25				
Cooling capacity	Watt	662	905	1,164	1,436	1,719	2,384
[TC=-20°C TA=30°C]							2,581

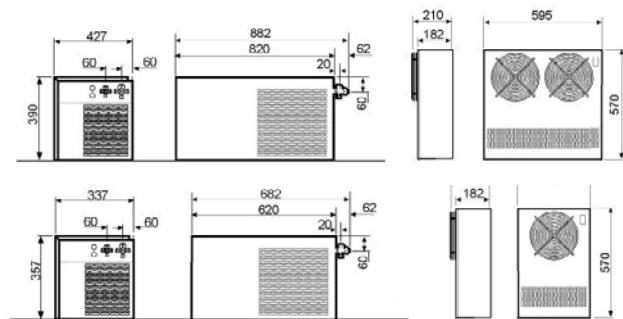
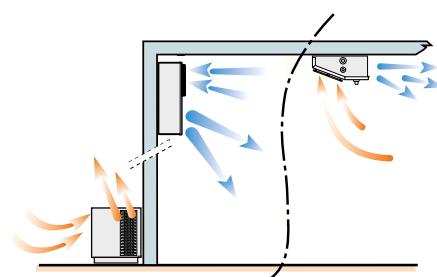
Bi-block system for wine application

Compact condensing unit and small-sized wall or ceiling mounted evaporators

- Accurate humidity and temperature control to guarantee the quality of products (e.g. wines)
- Thermostatic expansion valve ensuring optimum capacity in accordance with the required load for better energy efficiency
- Integrated humidifier available depending on model to have one unit which covers it all: perfect humidity & temperature control
- Electronic controller managing both temperature and humidity of the cold room



Installation type



	SB.RDV103EA12S3	SB.RDV105EA12S3	SB.RDV206EA12S3	SB.RDV207EA12S3	SB.RDV103EA12S7	SB.RDV105EA12S7	SB.RDV206EA12S7	SB.RDV207EA12S7	
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	
Power supply V/Ph~/Hz	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	
HP compressor	1/3	3/8	1/2	3/4	1/3	3/8	1/2	3/4	
Evaporator type	Wall mounting evaporator	Wall mounting evaporator	Wall mounting evaporator	Wall mounting evaporator	Ceiling mounting evaporator	Ceiling mounting evaporator	Ceiling mounting evaporator	Ceiling mounting evaporator	
PED category	1	1	1	1	1	1	1	1	
Working temperature °C	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	
Range RH %	60-80	60-80	60-80	60-80	60-80	60-80	60-80	60-80	
Cooling capacity [TC=10°C TA=30°C]	Watt	593	912	1,336	1,935	593	912	1,336	1,935



RDV



Condensing units

=

Condensing units with inverter driven compressor

High reliability, low cost and easy installation

- Power supply 380-400/3N~/50
- Pressure controlled fan speed controller
- Crankcase heater
- Oil separator
- Power control box with magnetothermic switches + thermal protection + electronic controller
- Inverter
- Oil separator + condenser fans speed regulator with pressure probe
- Liquid receiver with safety valve + liquid line
- HP + LP pressure switches, Crankcase heater
- Antivibration eliminators on suction and discharge line
- Condenser with 6 poles axial fans
- Condensing unit under nitrogen pressure



- Muffler on discharge line
- Residential Soundproofing
- Electrical box: power control box with thermal protection and capacity regulation
- Soundproofing: double noise insulation (residential)

	GCI	GCI2010B3B1D4R	GCI2020B3B1D4R	GCI2022B3B1D4R	GCI2030B3B1D4R	GCI2040B3B1D4R	GCI3050B3B1D4R	GCI3060B3B1D4R	GCI4120B3B1D4R
Frame type				2				3	4
Power supply	V/ph~/Hz				380-400/3N~/50				
Max absorbed current (70Hz)	A	2.7	3.6	4.1	5.6	7.2	8.4	10.3	13.3
Max absorbed power (70Hz)	kW	1.3	1.8	2.1	3.0	4.0	4.7	5.8	7.8
Working temperature	°C				+5 ÷ -20				
Compressor	Type				Semihermetic				
	Brand				Bitzer				
	Model	2HES-1Y	2FES-2Y	2EES-2Y	2CES-3Y	4EES-4Y	4DES-5Y	4CES-6Y	4PES-12Y
	Refrigerant				R134a				
Condenser	Fin pitch	mm			2.1				
	Fans nr.				1			2	
	Fans ø	mm			450				
	Model	ph/p			1ph-6P				
	Air flow	m³/h	2,943		2,701		5,850	5,366	
	Noise pressure level at 10 m (50Hz)	dB(A)	33	34	35	39	40	41	42
Connections	Suction	Ø mm	16	18	22	28	28	35	35
	Liquid	Ø mm			10			12	
	Standard liquid receiver	lt			5.7		10		21
	PED category				1		2		
	Unit net weight	kg	160	170	193	195	210	225	230
Cooling capacity	Min./Max. Tev 5°C	Tamb 20°C	kW	2.63/6.01	3.81/8.43	4.65/10.19	6.6/14.04	8.66/17.46	10.65/22.27
		Tamb 25°C	kW	2.49/5.68	3.56/7.89	4.37/9.59	6.22/13.23	8.14/16.4	10/20.91
		Tamb 30°C	kW	2.34/5.36	3.32/7.35	4.18/9.99	5.84/12.42	7.62/15.35	9.35/19.56
		Tamb 35°C	kW	2.2/5.04	3.08/6.82	3.83/8.4	5.47/11.63	7.1/14.31	8.7/18.22
		Tamb 40°C	kW	2.07/4.72	2.84/6.28	3.56/7.82	5.09/10.84	6.59/13.28	8.07/16.89
		Tamb 45°C	kW	1.93/4.41	2.6/5.76	3.3/7.24	4.72/10.05	6.08/12.26	7.44/15.57
	Tev 0°C	Tamb 20°C	kW	2.18/4.99	3.18/7.04	3.9/8.55	5.59/11.89	7.44/15	9/18.84
		Tamb 25°C	kW	2.06/4.71	2.97/6.58	3.66/8.03	5.26/11.19	6.98/14.08	8.45/17.69
		Tamb 30°C	kW	1.94/4.44	2.76/6.12	3.43/7.52	4.94/10.51	6.53/13.17	7.9/16.54
		Tamb 35°C	kW	1.82/4.16	2.56/5.67	3.2/7.02	4.62/9.83	6.09/12.27	7.36/15.39
		Tamb 40°C	kW	1.73/3.89	2.36/5.22	2.97/6.52	4.3/9.16	5.65/11.38	6.81/14.25
	Tev -5°C	Tamb 45°C	kW	1.58/3.62	2.16/4.78	2.75/6.03	3.99/8.49	5.21/10.5	6.27/13.13
		Tamb 20°C	kW	1.79/4.09	2.61/5.79	3.22/7.06	4.66/9.92	6.3/12.69	7.5/15.69
		Tamb 25°C	kW	1.69/3.86	2.44/5.4	3.02/6.62	4.38/9.33	5.91/11.91	7.04/14.73
		Tamb 30°C	kW	1.59/3.62	2.27/5.02	2.82/6.19	4.11/8.75	5.52/11.14	6.58/13.76
		Tamb 35°C	kW	1.48/3.39	2.1/4.64	2.63/5.77	3.85/8.18	5.14/10.37	6.12/12.8
	Tev -10°C	Tamb 40°C	kW	1.38/3.16	1.93/4.27	2.44/5.35	3.58/7.62	4.77/9.61	5.66/11.85
		Tamb 45°C	kW	1.28/2.93	1.76/3.91	2.25/4.94	3.32/7.06	4.39/8.86	5.21/10.9
		Tamb 20°C	kW	1.45/3.31	2.11/4.68	2.62/5.74	3.82/8.13	5.25/10.57	6.14/12.84
		Tamb 25°C	kW	1.36/3.11	1.97/4.36	2.45/5.37	3.59/7.65	4.92/9.91	5.76/12.05
		Tamb 30°C	kW	1.27/2.91	1.83/4.05	2.29/5.01	3.37/7.17	4.6/9.26	5.38/11.26
	Tev -20°C	Tamb 35°C	kW	1.19/2.72	1.69/3.74	2.13/4.66	3.15/6.7	4.28/8.62	5/10.46
		Tamb 40°C	kW	1.1/2.52	1.55/3.43	1.97/4.32	2.93/6.23	3.96/7.98	4.62/9.67
		Tamb 45°C	kW	1.02/2.33	1.42/3.14	1.81/3.98	2.71/5.77	3.64/7.34	4.25/8.88
		Tamb 20°C	kW	1.15/2.63	1.68/3.71	2.08/4.57	3.08/6.55	4.29/8.66	4.93/10.32
		Tamb 25°C	kW	1.08/2.47	1.56/3.45	1.95/4.27	2.89/6.14	4.02/8.11	4.63/9.68
	Tev -15°C	Tamb 30°C	kW	1.01/2.3	1.44/3.2	1.81/3.98	2.7/5.75	3.75/7.57	4.32/9.03
		Tamb 35°C	kW	0.93/2.13	1.33/2.95	1.68/3.69	2.52/5.37	3.49/7.03	4.01/8.38
		Tamb 40°C	kW	0.86/1.97	1.22/2.7	1.55/3.41	2.34/4.99	3.22/6.49	3.7/7.74
		Tamb 45°C	kW	0.79/1.81	1.11/2.46	1.43/3.13	2.17/4.61	2.96/5.96	3.39/7.09
		Tamb 20°C	kW	0.9/2.06	1.3/2.89	1.63/3.57	2.43/5.16	3.45/6.96	4.39/8.13
	Tev -25°C	Tamb 25°C	kW	0.84/1.92	1.21/2.67	1.51/3.32	2.27/4.83	3.23/6.5	3.64/7.62
		Tamb 30°C	kW	0.78/1.78	1.11/2.47	1.4/3.08	2.12/4.51	3/6.05	3.39/7.1
		Tamb 35°C	kW	0.72/1.64	1.02/2.26	1.3/2.84	1.98/4.2	2.78/5.61	3.14/6.57
		Tamb 40°C	kW	0.66/1.5	0.93/2.07	1.19/2.61	1.83/3.9	2.56/5.16	2.89/6.04
		Tamb 45°C	kW	0.6/1.36	0.85/1.88	1.09/2.38	1.69/3.59	2.34/4.72	2.63/5.51

Condensing units with inverter driven compressor

High reliability, low cost and easy installation

- Power supply 380-400/3N~/50
- Pressure controlled fan speed controller
- Crankcase heater
- Oil separator
- Power control box with magnetothermic switches + thermal protection + electronic controller
- Inverter
- Oil separator + condenser fans speed regulator with pressure probe
- Liquid receiver with safety valve + liquid line
- HP + LP pressure switches, Crankcase heater
- Antivibration eliminators on suction and discharge line
- Condenser with 6 poles axial fans
- Condensing unit under nitrogen pressure



- Muffler on discharge line
- Residential Soundproofing
- Electrical box: power control box with thermal protection and capacity regulation
- Soundproofing: double noise insulation (residential)

	HCI	HCI2015B2B1D4R	HCI2018B2B1D4R	HCI2020B2B1D4R	HCI2030B2B1D4R	HCI2050B2B1D4R	HCI3060B2B1D4R	HCI4120B2B1D4R	HCI4140B2B1D4R
Frame type				2			3		4
Power supply	V/ph~/Hz				380-400/3N~/50				
Max absorbed current (70Hz)	A	3.0	3.4	4.3	6.0	7.4	10.1	11.8	14.5
Max absorbed power (70Hz)	kW	1.4	1.7	2.2	3.1	4.2	5.6	6.8	8.5
Working temperature	°C				-15 ÷ -40				
Compressor	Type				Semihermetic				
	Brand				Bitzer				
	Model	2GES-2Y	2FES-2Y	2DES-2Y	4FES-3Y	4DES-5Y	4CES-6Y	4PES-12Y	4NES-14Y
	Refrigerant				R449A				
Condenser	Fin pitch	mm			2.1				
	Fans nr.				1				2
	Fans ø	mm			450				
	Model	ph/p			1ph-6P				
	Air flow	m³/h	2,943		2,701		5,850		5,366
	Noise pressure level at 10 m (50Hz)	dB(A)	34	35	36	37	40	42	45
Connections	Suction	Ø mm	16					35	48
	Liquid	Ø mm		22		28			
	Standard liquid receiver	lt	10				12		
	PED category				5.7		10	21	21
	Unit net weight	kg	170		193	208	215	242	330
Cooling capacity	Min./Max. Tev 5°C	Tamb 20°C	kW	2.27/5.1	2.82/6.22	3.88/8.38	5.18/10.71	7.14/14.06	9.3/19.06
		Tamb 25°C	kW	2.1/4.73	2.61/5.77	3.6/7.77	4.8/9.92	6.6/13	8.63/17.68
		Tamb 30°C	kW	1.93/4.34	2.4/5.3	3.32/7.17	4.42/9.15	6.08/11.96	7.97/16.33
		Tamb 35°C	kW	1.76/3.95	2.18/4.82	3.05/6.58	4.06/8.4	5.57/10.96	7.33/15.02
		Tamb 40°C	kW	1.58/3.56	1.96/4.33	2.78/6	3.71/7.68	5.07/9.98	6.71/13.75
		Tamb 45°C	kW	1.41/3.16	1.74/3.84	2.51/5.43	3.38/6.98	4.59/9.04	6.11/12.52
	Tev 0°C	Tamb 20°C	kW	1.82/4.09	2.27/5.02	3.19/6.89	4.31/8.91	6/11.81	7.77/15.92
		Tamb 25°C	kW	1.68/3.79	2.1/4.64	2.94/6.36	3.98/8.22	5.53/10.88	7.19/14.73
		Tamb 30°C	kW	1.54/3.47	1.92/4.25	2.71/5.85	3.66/7.56	5.07/9.98	6.62/13.56
		Tamb 35°C	kW	1.4/3.15	1.74/3.85	2.47/5.34	3.34/6.91	4.63/9.11	6.07/12.43
		Tamb 40°C	kW	1.25/2.82	1.55/3.43	2.24/4.85	3.04/6.29	4.2/8.27	5.53/11.34
		Tamb 45°C	kW	1.1/2.48	1.36/3.01	2.02/4.36	2.75/5.59	3.79/7.46	5.02/10.29
	Tev -5°C	Tamb 20°C	kW	1.43/3.21	1.79/3.96	2.57/5.55	3.52/7.27	4.94/9.73	6.38/13.07
		Tamb 25°C	kW	1.32/2.97	1.65/3.65	2.37/5.11	3.24/6.69	4.54/8.93	5.88/12.05
		Tamb 30°C	kW	1.21/2.71	1.51/3.33	2.16/4.68	2.96/6.12	4.14/8.16	5.4/11.05
		Tamb 35°C	kW	1.09/2.45	1.36/3	1.97/4.25	2.69/5.57	3.77/7.41	4.93/10.09
		Tamb 40°C	kW	0.97/2.17	1.2/2.65	1.77/3.83	2.44/5.04	3.4/6.69	4.48/9.17
		Tamb 45°C	kW	0.84/1.89	1.04/2.29	1.58/3.42	2.19/4.53	3.05/6	4.04/8.28
	Tev -10°C	Tamb 20°C	kW	1.09/2.45	1.38/3.05	2.02/4.37	2.81/5.81	3.97/7.82	5.12/10.49
		Tamb 25°C	kW	1.01/2.27	1.27/2.8	1.85/4.01	2.57/5.32	3.63/7.15	4.7/9.63
		Tamb 30°C	kW	0.92/2.06	1.15/2.54	1.69/3.65	2.34/4.84	3.3/6.5	4.3/8.8
		Tamb 35°C	kW	0.82/1.84	1.03/2.27	1.52/3.29	2.12/4.38	2.98/5.86	3.9/8
		Tamb 40°C	kW	0.72/1.61	0.9/1.98	1.36/2.93	1.9/3.94	2.67/5.26	3.53/7.23
		Tamb 45°C	kW	0.61/1.37	0.76/1.67	1.2/2.59	1.7/3.51	2.38/4.68	3.16/6.48
	Tev -20°C	Tamb 20°C	kW	0.8/1.81	1.02/2.26	1.55/3.34	2.18/4.51	3.1/6.1	4/8.19
		Tamb 25°C	kW	0.74/1.66	0.94/2.07	1.41/3.04	1.98/4.1	2.81/5.54	3.65/7.48
		Tamb 30°C	kW	0.67/1.5	0.84/1.86	1.27/2.74	1.79/3.7	2.53/4.99	3.31/6.79
		Tamb 35°C	kW	0.59/1.32	0.74/1.64	1.13/2.45	1.61/3.32	2.27/4.46	2.99/6.13
		Tamb 40°C	kW	0.5/1.12	0.63/1.4	1.2/2.15	1.43/2.96	2.01/3.96	2.68/5.49
		Tamb 45°C	kW	0.41/0.92	0.51/1.13	0.86/1.86	1.26/2.61	1.77/3.48	2.38/4.88
	Tev -15°C	Tamb 20°C	kW	0.56/1.26	0.72/1.58	1.13/2.45	1.63/3.36	2.32/4.56	3/6.15
		Tamb 25°C	kW	0.51/1.14	0.65/1.44	1.02/2.2	1.46/3.03	2.08/4.09	2.72/5.57
		Tamb 30°C	kW	0.45/1.01	0.58/1.28	0.91/1.96	1.31/2.7	1.85/3.64	2.44/5.01
		Tamb 35°C	kW	0.38/0.86	0.51/1	0.79/1.71	1.16/2.39	1.63/3.2	2.18/4.46
		Tamb 40°C	kW	0.31/0.7	0.4/0.89	0.68/1.47	1.01/2.09	1.42/2.79	1.92/3.94
		Tamb 45°C	kW	0.23/0.52	0.3/0.66	0.57/1.23	0.87/1.8	1.22/2.39	1.68/3.45

Hubbard Condensing units with CO₂ refrigerant

- Transcritical CO₂ Commercial Condensing Units for food retailers
- Wide range of capacities: 2 to 10HP MT
- Designed for quiet and energy-saving operation
- Inverter technology reduces energy consumption by up to 30%
- EC fans work efficiently and quietly
- Easy and flexible installation
- Designed as plug & play solutions



GCU-PXB1



F-Gas Free



Protective Case



Plug&Play



Switchboard



Proportional Modulation



Electronic Control

Medium Temperature		GCU 2020 PXB1	GCU 2040 PXB1	GCU 4070PXB1
Capacity *	HP	2	4	10
Capacity *	kW	1.80	3.25	6.25
Min.		3.39	6.50	12.54
Max.				
Power & Energy	Ph./Hz./VAC			
EcoDesign (2009/125/EC)	FLC	8.64	16.04	18.25
	COP/SEPR	1.87/3.57 SEPR	3.24 SEPR	2.92 SEPR
		5,840	12,307	26,393
Compressor	Compression		2 Stage (Intercooler)	
	Type		Panasonic Hermetic Rotary	
	Cap Ctrl.		ABB Frequency Inverter	
	RPM	2,200 ~ 4,200	2,200 ~ 4,800	1,800 ~ 3,600
	Qty.		1	
	Oil		DAPHNE PZ68S	
	I	0.7	1.15	1.80
Gas cooler fans	Type		Ebmpapst EC	
	Qty.		1	2
		m ³ /s	1.05	2.10
	Ø (dia.)	mm		
Sound pressure (10 m)	dB(A)	40.0	45.0	48.0
Refrigerant	Type/GWP		R744/1	
Reciever volume	I		12.50	20.00
Standard pipe run	m	25	35	40
Liquid connections	Inch/Type		3/8"/K65	1/2"/K65
Suction connections	Inch/Type	3/8"/K65		1/2"/K65
Oil seperator	Standard	no		yes/Turboil
Oil level control	Standard	N/A		Cappillary
Dimensions	Unit	LxDxH	1,452x574x799	1,684x773x1,438
Surface area		mm	0.83	
Weight	kg	151	155	285
Colour	RAL		Light Grey RAL 7035 (Powder Coated & Baked)	
Controller	Type		CAREL pRack pR300 Electronic Controller	
High side PRV	Bar	N/A		120
Intermetidate PRV	Bar		90	80
Compressor HP Switch	Standard		Yes x1	
PED 2014/68/EU	Category		Cat. III	

* Nominal Tevap. -10°C | Tamb +32°C | 10K Superheat

Hubbard Condensing units with CO₂ refrigerant



- Transcritical CO₂ Commercial Condensing Units for food retailers
- Wide range of capacities: 4 to 10HP LT
- Designed for quiet and energy-saving operation
- Inverter technology reduces energy consumption by up to 30%
- EC fans work efficiently and quietly
- Easy and flexible installation
- Designed as plug & play solutions



HCU-PXB1



F-Gas Free



Protective Case



Plug&Play



Switchboard



Proportional Modulation



Electronic Control

Low Temperature		HCU2040PXB1	HCU4070PXB1
Capacity *	HP	4HP	10HP
Capacity *	kW	1.7	3.3
		3.03	6.56
Power & Energy	Ph./Hz./VAC	3PH/50Hz/400VAC	
EcoDesign (2009/125/EC)	FLC	16.04	18.25
	COP/SEPR	1.5	1.55
		15,046	31,478
Compressor	Compression	2 Stage (Intercooler)	
	Type	Panasonic Hermetic Rotary	
	Cap Ctrl.	ABB Frequency Inverter	
	RPM	2,700 to 4,800	1,800 to 3,600
	Qty.	1	
	Oil	Daphne PZ68S	
	I	1.15	2.3
Gas cooler fans	Type	Ebmppast EC	
	Qty.	1	
	m ³ /s	1.05	2.1
	Ø (dia.) mm	450	
Sound pressure (10 m)	dB(A)	45	48
Refrigerant	Type/GWP	R744/1	
Reciever volume	I	12.5	20
Standard pipe run	m	35	40
Liquid connections	Inch/Type	3/8" (K65)	1/2" (K65)
Suction connections	Inch/Type		1/2" (K65)
Oil seperator	Standard	Yes/Turboil	
Oil level control	Standard	Capillary	
Dimensions	Unit LxDxH	1,452x574x799	1,684x773x1,438
Surface area	mm ²	0.83	1.29
Weight	kg	161	300
Colour	RAL	Light Grey RAL7035 (Powder Coated & Baked)	
Controller	Type	CAREL pRack pR300 Electronic Controller & Ultracap	
High side PRV	Bar	120	
Intermetidate PRV	Bar	90	80
Compressor HP Switch	Standard	Yes x1	
PED 2014/68/EU	Category	Cat. III	

* Nominal Tevap -35°C | Tamb +32°C | 10K Superheat

CO₂ ZEAS condensing units

the smart choice for medium and low temperature refrigeration featuring proven ZEAS technology

- Perfect solution for all cooling and freezing applications with variable load conditions and high energy efficiency requirements. Particularly for use in supermarkets, cold storage, blast coolers and freezers, process etc.
- BLDC inverter swing compressor with onboard 2 stage technology with intercooler
- Reduced CO₂ emissions thanks to the use of natural refrigerant (CO₂) and low energy consumption
- Factory tested and pre-programmed for quick and easy installation and commissioning
- Increased installation flexibility thanks to limited dimensions
- Low sound level including "night mode" operation

High energy savings potential

- Highly efficient operation
- Cuts energy consumption compared to traditional refrigeration equipment
- Advanced Daikin BLCD inverter swing compressor technology precisely adapts to the system's needs, protected by 4 patents
- Eco-design compliant

Intelligent control

- Can be connected to a third party monitoring system
- Refrigeration unit can be controlled remotely through a powerful interface
- Remote control of target evaporation temperature, reset errors and other functions

Comfort

- Quiet operation, unobtrusive for customers and neighbours
 - High grade sound insulation on compressors
 - Condenser fans designed to limit noise
 - Two low noise operation settings including night mode
- Wide temperature range (-40°C to +5°C) allows multiple cabinet, freezer and cold room combinations
- Unified model for freezing, cooling and/or refrigerating applications

Reliable operation

- CO₂ ZEAS condensing units are rigorously tested on the assembly line
- Proven inverter swing technology
- Anti-corrosion treatment on the housing ensures long life even in extreme conditions
- Daikin condensing units are at the heart of refrigeration applications such as food retail, food processing, logistic center, pharmaceutical and more

Smart refrigeration

with additional advantages

Small footprint

- Extremely compact design
- Best surface to capacity ratio on the market
- Easy to install in the smallest spaces
- Indoor installation possible
- Minimal space required between units in multi-unit installations

Fully packaged

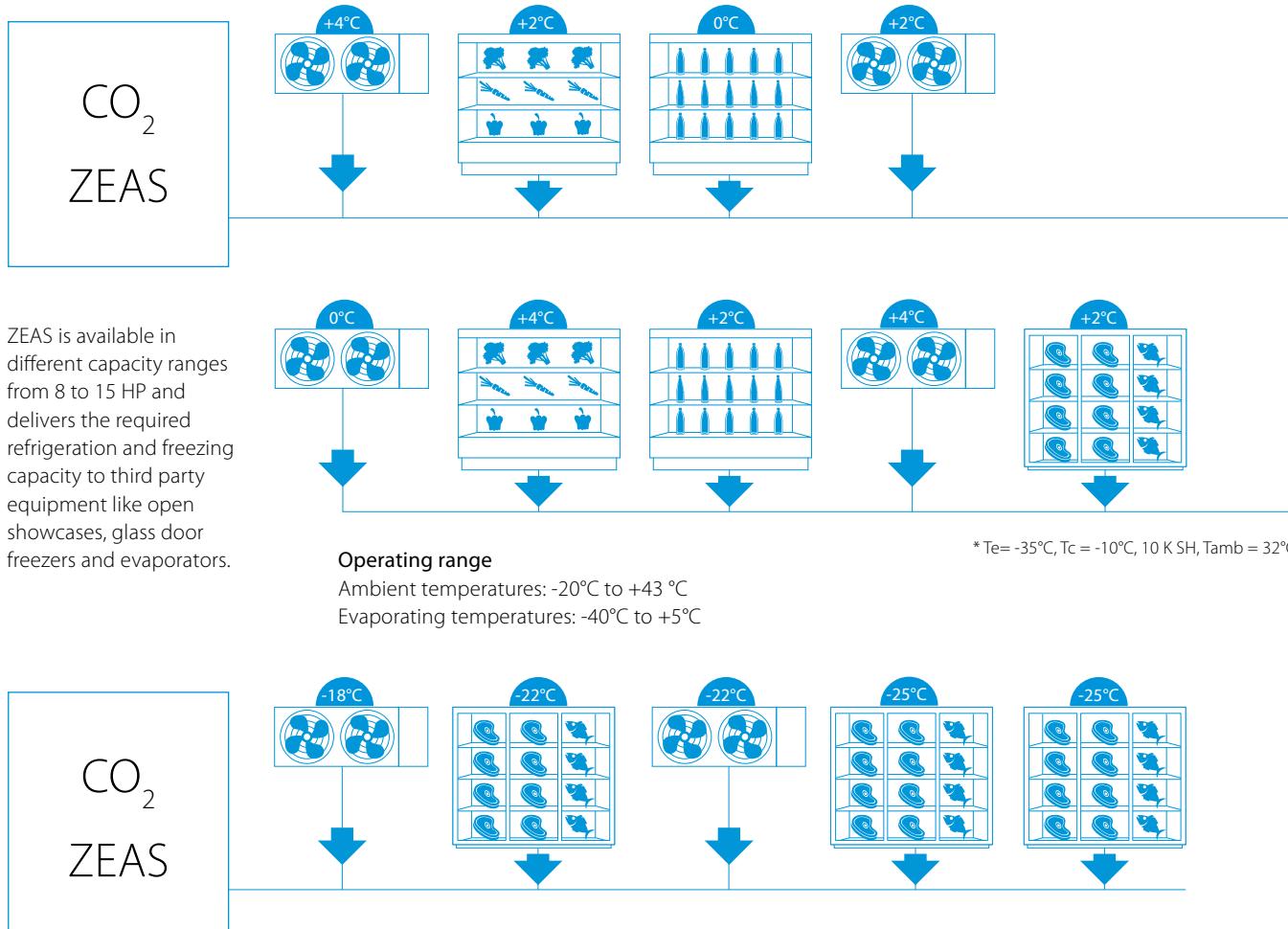
- Component selection risk reduced to zero
- Leak testing and run test in factory
- Built-in controls ensure optimum operation and unit safety

Wide temperature range

- Precise evaporating temperatures from -40°C to +5°C depending on the application

Comprehensive support

- Daikin provides comprehensive service and maintenance tools



CO_2 ZEAS refrigeration condensing unit

Refrigeration solution for various application featuring award winning swing technology with heat recovery to water possibility

- Condensing units ideal for commercial and industrial applications with variable cooling capacity
- Compressor controlled by inverter
- Daikin swing compressor
- Suitable for outdoor use in different climatic conditions
- Wide range of capacities

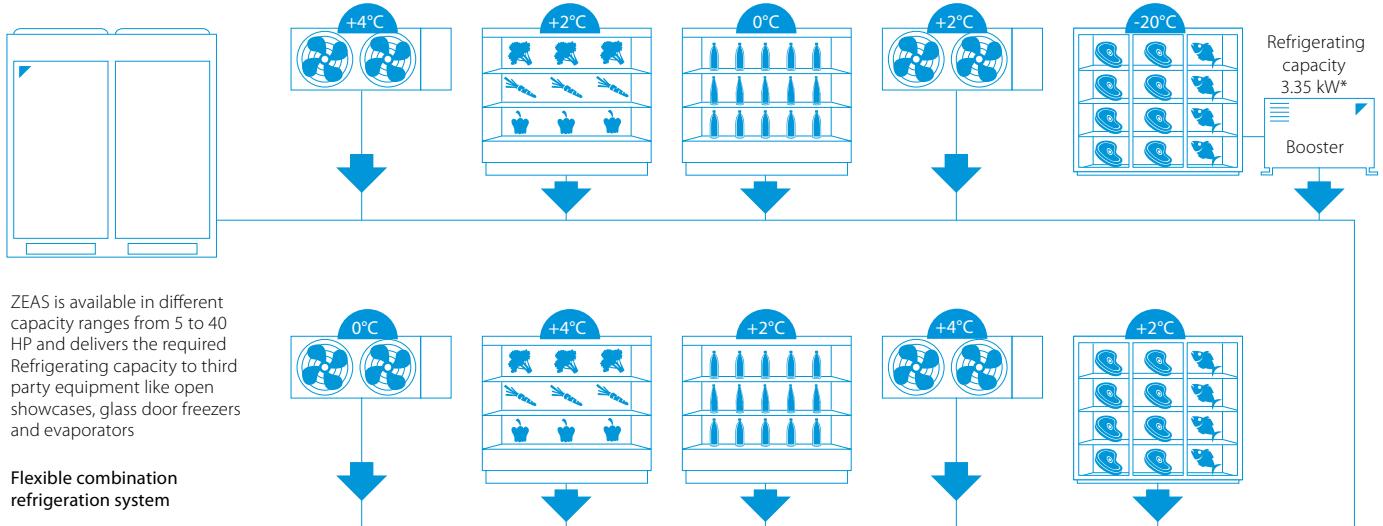


LREN-A

Low Temperature Refrigeration, Medium Temperature Refrigeration, Heat Recovery			LREN	8AY1	10AY1	12AY1	12AY1+LRNUN5AY1		
Refrigerating capacity	Low temperature Nom.	kW	11.2 (1)	13.5 (1)	15.5 (1)	17.3 (1)			
	Medium temperature Nom.	kW	19.8 (2)	231 (2)	26.3 (2)	31.7 (2)			
Power input	Low temperature Nom.	kW	11.6 (1)	14.1 (1)	16.9 (1)	18.6 (1)			
	Medium temperature Nom.	kW	10.7 (2)	13.2 (2)	15.5 (2)	20.1 (2)			
COP	Medium temperature Nom.		1.86 (2)	1.75 (2)	1.69 (2)	1.58 (2)			
Dimensions	Unit HeightxWidthxDepth	mm	1,680x1,930x765				-		
Weight	Unit kg		547				-		
Heat exchanger	Type		Cross fin coil (waffle louver fins and Hi-X tubes)				-		
Compressor	Type		Hermetically sealed swing compressor				-		
	Output W		4,600.0				-		
	Piston displacement m³/h		6.16				-		
	Starting method		Direct on line (inverter driven)				-		
Fan	Type		Propeller fan				-		
	Quantity		3				-		
	Air flow rate Cooling Nom. m³/min		285 (3)		315 (3)		-		
Fan motor	Output W		750				-		
	Drive		Direct drive				-		
Sound pressure level	Nom. dBA		61.0 (5)	62.0 (5)	64.0 (5)	65.0 (4)			
	Low noise mode 1 dBA		59.0 (4)	59.0 (4)	61.0 (4)				
	Low noise mode 2 dBA		53.0 (4)	54.0 (4)	56.0 (4)				
Piping connections	Liquid OD mm		15.9						
	Gas OD mm		22.2						
Refrigerant	Type/GWP		R744 (CO_2) /1.0						
	Charge kg		0.00 (4)						
	Control		Electronic expansion valve						
Power supply	Phase/Frequency/Voltage Hz/V		3N~/50/380-415						

(1)Rated conditions: saturation temperature equivalent to suction pressure: -35°C (LT), outdoor temp. 32°C, Suction SH 10K | (2)Rated conditions: saturation temperature equivalent to suction pressure: -10°C (MT), outdoor temp. 32°C, Suction SH 10K | (3)Outdoor Unit Total Airflow | (4)The unit is not pre-charged. A minimal rest charge is present related to factory quality inspection | (5)Sound pressure data: measured at 1m in front of unit, at 1.5m height. Nominal operation condition – Medium evaporation temperature (MT) | Minimum load of each individual refrigeration indoor unit: 3 kW (for Medium Temperature Operation) | Minimum load of each individual refrigeration indoor unit: 2 kW (for Low Temperature Operation). | Every compressor equipped with 1 accumulator of 0.909 liters. | Compressor 1 | Compressor 2 | Compressor 3 | Factory charge of unit | For MT (Medium Temperature) Operation | For LT (Low Temperature) Operation | Compressor 1: 2Y190CPCYIP#C; Compressor 2: 2Y190CPCYIP#C; Compressor 3: 2Y190CPDYIP#C | Only K65 (or equivalent) with D.P. 90 bar is allowed to use for refrigeration piping. | For all the LRNU5AY1 specifications, please refer to the related MDM drawing

ZEAS, the smart choice for medium and low temperature refrigeration



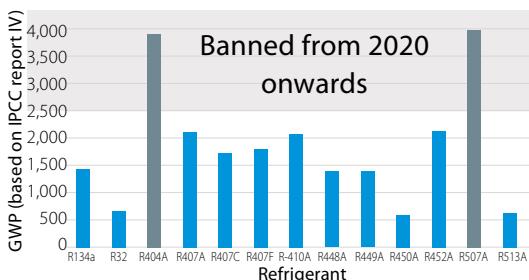
Operating range
Ambient temperatures: -20°C to +43 °C
Evaporating temperatures: -45°C to +10°C

* $T_e = -35^\circ\text{C}$, $T_c = -10^\circ\text{C}$, 10 K SH, $T_{amb} = 32^\circ\text{C}$
* Only Zeas. Not applicable for Mini-Zeas and Multi-Zeas

Why R-410A?

R-410A is a lower GWP refrigerant (less than 2,500) than R404A and is fully F-gas compliant. It's future proof: it can be used even after 2030!

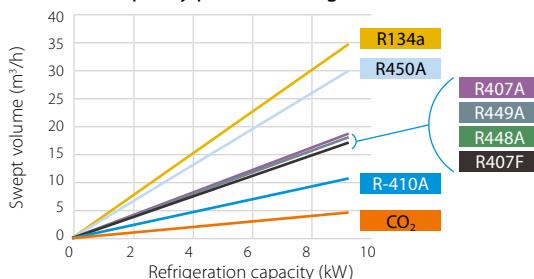
Use of refrigerant in refrigeration system with a refrigeration lower than 40 kW



Contributes to reducing installation cost and refrigerant charge

R-410A is a high pressure refrigerant which for the same swept volume can deliver much more refrigeration capacity than standard mid pressure and low pressure refrigerants.

Delivered capacity per used refrigerant

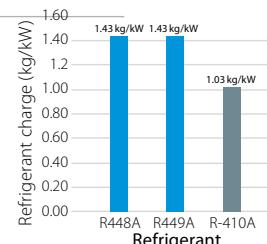


This means that for the same delivered refrigeration capacity we can use smaller components, thus reducing the installation cost and the amount of refrigerant charge in the system!

For a capacity of 8.4 kW
($T_e = -10^\circ\text{C}$ / $T_{amb} = 32^\circ\text{C}$)

Refrigerant	Suction piping diameter
R134a	11/8"
R407A	7/8"
R407F	7/8"
R448A	7/8"
R449A	7/8"
R450A	11/4"
R-410A	3/4"
CO₂	1/2"

Refrigerant charge per used refrigerant
($T_e = -10^\circ\text{C}$ / $T_{amb} = 32^\circ\text{C}$)



R-410A is also:

- an easy to handle, common used refrigerant in the air conditioning world, therefore it is easy to find an installer which can work with this refrigerant, compared to CO₂, Ammonia and Propane.
- an A1 refrigerant, therefore no special safety measurements are required.

ZEAS condensing unit for commercial refrigeration with scroll technology

Refrigeration solution for medium to large capacity applications featuring proven VRV technology

- One model for all applications from -45°C to 10°C evaporating temperature
- Perfect solution for all cooling and freezing applications with variable load conditions and high energy efficiency requirements. In particular used in supermarkets, cold storage, blast coolers and freezers etc.
- DC inverter scroll compressor with economiser function results in high energy efficiency and reliable performance
- Reduced CO₂ emissions thanks to the use of R-410A refrigerant and low energy consumption
- Factory tested and pre-programmed for quick and easy installation and commissioning
- VRV (Variable Refrigerant Volume) technology for flexible application range



- Increased installation flexibility thanks to limited dimensions
- Low sound level including „night mode“ operation
- For small freezing capacity, single ZEAS units can be connected to a booster unit
- Dedicated unit to allow multi combination of 2 x 15 HP or 2 x 20 HP resulting in less pipework or installation time



LREQ-BY1

		LREQ-BY1	5	6	8	10	12	15	20
Refrigerating capacity	Low temperature Nom.	kW	5.51 (1)	6.51 (1)	8.33 (1)	10.0 (1)	10.7 (1)	13.9 (1)	15.4 (1)
	Medium temperature Nom.	kW	12.5 (2)	15.2 (2)	19.8 (2)	23.8 (2)	26.5 (2)	33.9 (2)	37.9 (2)
Power input	Low temperature Nom.	kW	4.65 (1)	5.88 (1)	7.72 (1)	9.27 (1)	9.89 (1)	12.8 (1)	14.1 (1)
	Medium temperature Nom.	kW	5.10 (2)	6.56 (2)	8.76 (2)	10.6 (2)	12.0 (2)	15.2 (2)	17.0 (2)
Seasonal energy performance ratio SEPR	R-410A Te -10°C		3.86	3.79	3.64	3.42	3.51	3.38	3.23
	Te -35°C		1.80	1.77	1.84	1.88	1.80	1.70	1.70
Annual electricity consumption Q	R-410A Te -10°C	kWh/a	19,907	24,681	33,483	42,794	46,377	61,683	72,030
	Te -35°C	kWh/a	22,805	27,453	33,817	39,747	44,363	61,090	67,325
Parameters at full load and ambient temp. 32°C (Point A)	R-410A Te -10°C	Rated COP (COPA)	2.45	2.32	2.26	2.25	2.21		2.23
	Te -35°C	Rated COP (COPA)	1.18	1.11		1.08			1.09
Parameters at full load and ambient temp. 43°C	R-410A Te -10°C	Declared COP (COP3)	1.54	1.57	1.40	1.46	1.47	1.46	1.51
	Te -35°C	Declared COP (COP3)	0.76	0.74	0.68	0.70		0.71	0.74
Dimensions	Unit	Height	mm			1,680			
		Width	mm	635		930			1,240
		Depth	mm			765			
Weight	Unit		kg	166		242		331	337
Heat exchanger	Type				Cross fin coil				
Compressor	Type				Hermetically sealed scroll compressor				
	Output	W	2,600	3,200	2,100	3,000	3,400	2,600	3,400
	Piston displacement	m ³ /h	11.18	13.85	19.68	23.36	25.27	32.24	35.8
	Speed	rpm	5,280	6,540	4,320	6,060	6,960	5,280	6,960
	Starting method				Direct on line (inverter driven)				
Compressor 2	Output	W	-			3,600			
	Speed	rpm	-			2,900			
Compressor 3	Output	W			-		3,600		
	Speed	rpm			-		2,900		
Fan	Type				Propeller fan				
	Quantity				1		2		
	Air flow rate	Cooling	Nom.	m ³ /min	95	102	171	179	191
Fan motor	Output			W	350		750	350	750
	Drive						Direct drive		
Fan motor 2	Output	W				-		350	750
Sound pressure level	Nom.			dBA	55.0 (3)	56.0 (3)	57.0 (3)	59.0 (3)	61.0 (3)
Operation range	Evaporator	Cooling	Max.-Min.	°CDB			10~45	62.0 (3)	63.0 (3)
Refrigerant	Type / GWP						R-410A/2,087.5		
	Charge	kg			5.2		7.9		11.5
		TCO ₂ eq			10.9		16.5		24.0
	Control						Electronic expansion valve		
Power supply	Phase/Frequency/Voltage		Hz/V				3~/50/380-415		
		LREQ-BY1		30			40		
System	Outdoor unit module 1			LREQ15BY1R			LREQ20BY1R		
	Outdoor unit module 2			LREQ15BY1R			LREQ20BY1R		
Refrigerating capacity	Medium temperature Nom.	kW		67.8 (1)			75.8 (1)		
	Low temperature Nom.	kW		27.8			29.6		
Power input	Medium temperature Nom.	kW		30.4			34.0		
	Low temperature Nom.	kW		25.6			27.6		
Sound pressure level	Nom.	dBA		65.0			66.0		
Piping connections	Liquid				ø 19.05				
	Gas				ø 41.28				

(1) Cooling: evaporating temp. -10°C; outdoor temp. 32°C; suction SH10°C (2) Cooling: evaporating temp. -35°C; outdoor temp. 32°C; suction SH10°C (3) Sound pressure data: measured at 1m in front of unit, at 1.5m height | RLA is based on following conditions: outdoor temp. 32°CDB; suction SH 10°C; saturated temperature equivalent to suction pressure -10°C

Mini-ZEAS condensing unit

Refrigeration solution for small food retailers

- Inverter technology guarantees optimal food conservation by ensuring an accurate temperature and humidity control
- The economized scroll contributes to a longer lifetime expectation of the refrigeration equipment and less maintenance requirement
- The use of R-410A refrigerant allows the use of smaller piping diameters, thus reducing the refrigerant content in the system helping to lower our CO₂ footprint. R-410A is fully compliant with the latest F-Gas regulation and can be still used after 2020 and beyond
- The DC economized compressor improves drastically the efficiency of the unit, thus helps lowering the energy bill!
- Lowest sound level in the market down to 31 dBA. Sound level can be even further reduced thanks to the low noise modes
- The weight of the unit is very low, therefore the unit can even be mounted on the wall
- Up to 75% smaller than equivalent products in the market, ideal for those places where space is limited
- Advanced software solution for easy system configuration and commissioning



Medium Temperature Refrigeration		LRMEQ/LRLEQ	3BY1	4BY1	3BY1	4BY1		
Connectable capacity	Minimum~Maximum	%		50~100				
Refrigerating capacity	Low Nom.	kW		-	2.78 (1)	3.62 (1)		
	Medium Nom.	kW	5.90	8.40	-			
Power input	Low Nom.	kW		-	2.60 (1)	3.41 (1)		
	Medium Nom.	kW	2.53	3.65	-			
COP	Medium Nom.		2.33	2.30	-			
Seasonal energy performance ratio SEPR	R-410A Te -10°C - Te -35°C		4.17	4.08	1.74	1.68		
Annual electricity consumption Q	R-410A Te -10°C - Te -35°C	kWh/a	8,698	12,651	11,920	16,048		
Parameters at part load and ambient temp. 25°C (Point B)	R-410A Te -10°C - Te -35°C	Declared COP (COPB)	2.93	2.87	1.26	1.23		
Parameters at full load and ambient temp. 32°C (Point A)	R-410A Te -10°C Te -35°C	Rated COP (COPA)	2.33	2.30	-			
		Rated COP (COPA)		-	1.07	1.06		
	Te -10°C - Te -35°C	Rated cooling capacity (PA) kW	5.90	8.40	2.78	3.62		
		Rated power input (DA) kW	2.53	3.65	2.60	3.41		
Parameters at full load and ambient temp. 43°C	R-410A Te -10°C Te -35°C	Declared COP (COP3)	1.51	1.48	-			
		Declared COP (COP3)		-	0.59	0.66		
	Te -10°C - Te -35°C	Cooling capacity (P3) kW	5.28	7.22	2.13	3.02		
		Power input (D3) kW	3.50	4.89	3.58	4.57		
Parameters at part load and ambient temp. 15°C (Point C)	R-410A Te -10°C Te -35°C	Declared COP (COPC)	4.12	3.92	1.63			
Parameters at part load and ambient temp. 5°C (Point D)	R-410A Te -10°C Te -35°C	Declared COP (COPD)	5.15	5.20	2.13	1.98		
Dimensions	Unit	HeightxWidthxDepth	mm	1,345x900x320				
Weight	Unit		kg	126	130			
Heat exchanger	Type			Cross fin coil				
Compressor	Type			Hermetically sealed scroll compressor				
Fan	Type			Direct on line (inverter driven)				
	Quantity			Propeller				
	Air flow rate Cooling Nom.	m ³ /min		2				
Fan motor	Output Drive	W		106				
Sound pressure level Nom.		dBA		70				
Piping connections	Liquid OD	mm	51 (1)	Direct drive				
	Gas OD	mm		51.0 (2)				
Refrigerant	Type/GWP			R-410A/2,087.5				
Refrigerant	Charge	kg/TCO2Eq	4.50/9.39	6.90/14.4				
Power supply	Phase/Frequency/Voltage	Hz/V		Electronic expansion valve				
				3N~/50/380-415				

(1) Sound pressure data: measured at 1m in front of unit, at 1.5m height | (2) Cooling: evaporating temp. -35°C; outdoor temp. 32°C; suction SH10°C | Cooling: evaporating temp. -10°C; outdoor temp. 32°C; suction SH10°C

Compact CO₂ transcritical

Compact compressor racks fully equipped for cold generation with CO₂ in transcritical cycle

- Double V battery.
- Greater exchange surface, that allows a lower refrigerant flow and charge.
- Possibility of installing a heat recovery unit.
- Electrical panel with controller and disconnect switch with external control.
- Two independent modules to contain the compressors and the gas cooler.
- NV58 drivable EC fans.
- EPOXY resin treatment option for battery protection.
- Complete solution.
- Plug & Play.
- Indoor & outdoor.
- Gas Cooler included.
- 360° access.
- Compact equipment.
- Soundproofing.
- Selectable electronic brand.
- Condenser with 5 mm tubes (high performance) and with low refrigerant charge.
- Optional: proportional compressor.



Selectable electronic brand



NOVA66: 360° accessibility



Axial version NV66

Fans

- 3x Ø500 mm

Air flow

- 24,000 m³/h

Sound pressure at 10 m

- 46 up to 57 dB(A)



RHX



PS 120 / 70 / 52 / 30 Bar



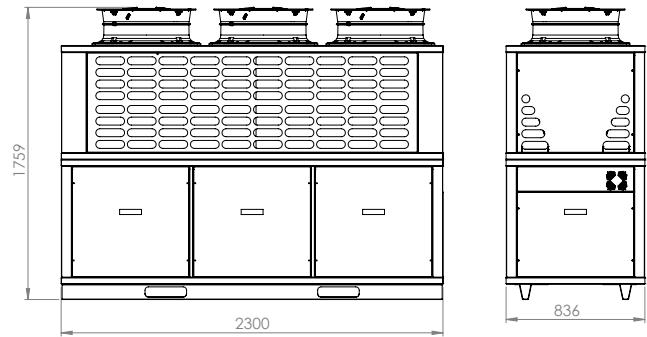
Plug & Play



Emergency unit



Compact design



Radial version NV66

Fans

- 3x Ø500 mm

Air flow

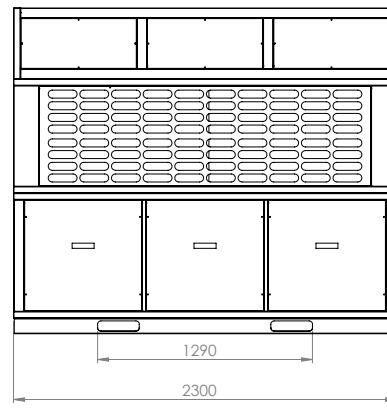
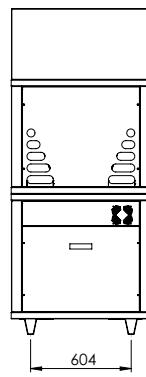
- 22,500 m³/h

Available pressure

- 100 Pa

Sound pressure at 10 m

- 50 up to 56 dB(A)



NV66 CO ₂					
Application		MT		MT + CP	
Cooling capacity	kW	44 kW	54 kW	63 kW	40 + 4 kW
Number of compressors	nº	2	3	2 + 1	2 + 1
Inverter compressors	nº	1	1	1 + 1	1 + 0 (opt.)
Extra equipment	Tipo	IHX/RHX	IHX/RHX	IHX/RHX	IHX/RHX
Recovery (max)	kW	30 kW	38 kW	40 kW	30 kW

* Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsgc +35°C.

Compact transcritical CO₂ compressor racks

Compact compressor racks fully equipped for cold generation with CO₂ in transcritical cycle

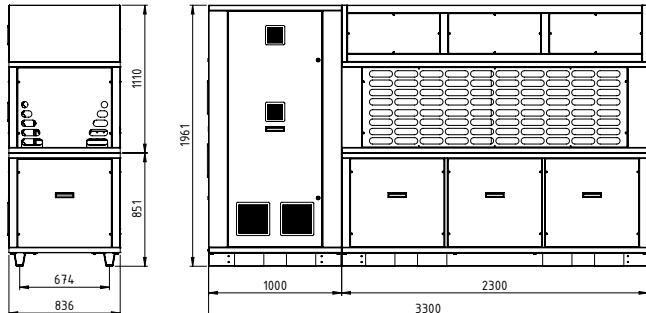
- Double V battery with great exchange surface and lower flow rate required.
- Two independent modules to contain the compressors and the gas cooler.
- 360° accessible.
- Up to 5 compressors.
- 3 air outlet configurations.
- Electrical panel with controller.
- Multiple possibilities of loading and transportation.
- Complete solution.
- Plug & Play.
- Indoor & outdoor.
- Gas Cooler included.
- 360° access.
- Compact equipment.
- Soundproofing.
- Selectable electronic brand.
- Parallel compressor (option).
- Oil separator accumulator.
- 90 l liquid receiver with internal exchanger for connection to the emergency unit.
- Two electronic refrigerant level sensors (high and low level).
- Emergency unit on board.
- Parallel compressor (option).
- Copper pipes and connections.
- Frequency inverter for the first MT compressor and optional for the LT compressor.
- Selectable electronic brands: Tewis (EWCM9000pro), Danfoss (AK-PC 772) or Carel (pRack PR300T).
- Axial/radial fans option.
- RHX option.
- Design pressures:
 - MP (MT Suction): 52 bar.
 - LP (LT Suction): 30 bar.
 - IP (Receiver and liquid line): 70 bar.
 - HP (Discharge): 120 bar.



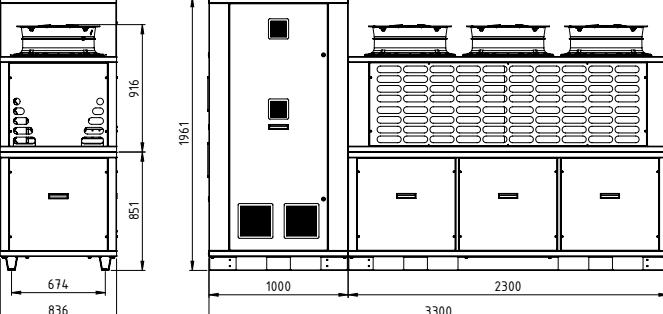
Selectable electronic brand



Radial version



Axial version



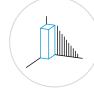
RHX



Emergency unit



PS 120 / 70 / 52 / 30 Bar



Compact design



Plug & Play

Application	MT				Bitzer				Dorin
Compressor	kW	47.37	70.05	43.44	49.33	66.12	46.52	63.31	28.42
Capacity MT*	kW	—	—	3.9	3.9	3.9	6.68	6.68	37.27
Capacity LT*	kW	—	—	1x 4JTC-15K (V.F.) + 1x 4HTC-15K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4MTC-10K (V.F.) + 1x 4HTC-10K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4MTC-10K (V.F.) + 2x 4HTC-10K	7.27
MT compressors									1x 4JTC-15K (V.F.) + 1x 4HTC-15K
LT compressors		—	—	1x 2MSL-07K	1x 2MSL-07K	1x 2MSL-07K	2x 2MSL-07K	2x 2MSL-07K	1x CD4120-9.2H (V.F.) + 1x CD490-9.2M

Application	MT + LT							
Compressor	Bitzer	Dorin		Bitzer		Dorin		Bitzer
Capacity MT*	kW	44.96	26.44	34.8	42.09	58.88	23.99	30.85
Capacity LT*	kW	8.26	9.68	9.68	11.1	11.1	13.54	13.54
MT compressors		1x 4MTC-10K (V.F.) + 2x 4HTC-10K	1x CD490-6.4H (V.F.) + 1x CD4120-9.2H (V.F.)	1x 4MTC-10K (V.F.) + 2x 4HTC-10K	1x 4JTC-15K (V.F.) + 2x 4HTC-15K	1x 4MTC-10K (V.F.) + 1x CD490-9.2M	1x CD4120-9.2H (V.F.) + 1x CD490-9.2M	55.82
LT compressors		1x 2JSL-2K	2x CDS151B	2x CDS151B	2x 2KSL-1K	2x 2KSL-1K	2x CDS181B	2x CDS181B

* Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsgc +35°C.





Multi-compressor
packs and racks

Compressor packs & racks



Multi compressor units

Standard configuration

Basic frame version:

- Basic frame made from folded and painted steel sheet, screwed with bolts to make a basic structure to fix the components on it

Basic refrigeration system:

- Each compressor is fitted with shut-off valves on suction line and discharge line
- The compressors are fixed to the frame through rubber anti vibration supports
- The oil system is through a oil separator, oil equalization is through a header fitted in the compressors oil sight glasses
- According to the number of compressors fitted, there are one or two oil level indicators, fitted into the equalization header
- The refrigerating system is equipped with liquid receiver, if the receiver is more than one, the installation is made in parallel with a safety valve; a dehydration cartridge filter, interchangeable, liquid level alarm, liquid sight glass and shut off valves
- On suction line there is a mechanical cartridge filter, interchangeable



Options and accessories:

- Mechanical oil equalization system
- Electronic oil distribution system
- Closed frame
- Closed frame with simple sound proofing material
- Closed frame with double layer sound proofing material
- Anti-vibration supports
- Oversized liquid receiver
- Different voltage and/or frequency
- EWCM 4180 Electronic card
- XC1000D-EWCM9100 Electronic card

Standard features

- Metal open frame with electrical switchboard
- Compressor parallel with discharge and suction header
- Liquid receiver
- Liquid line
- High and low pressure switch
- Electrical switchboard complete with electronic control

Single Screw compressor

The single screw compressor consists of a main single screw and two gate rotors. They are designed for high capacities and optimal performances through the step less capacity control.



Compact CO₂ mini compressor racks

Mini compact compressor racks with less than 1 m² footprint, highly competitive, with CO₂ in transcritical cycle for cold generation

- Highly accessible front opening door with hinges.
- Lateral practicable door.
- Vertical liquid receiver with exchanger prepared for connection to the emergency unit.
- Practicable electrical panel with controller and complete wiring.
- Compatible with Tewis remote management systems.
- Adapted design for proper loading and transportation.
- Up to 2 MT compressors and 1 LT compressor.
- 360° access for easy maintenance.
- Oil separator accumulator.
- Two refrigerant level electronic sensors (high and low level).
- Frequency inverter for the first MT compressor and optional for the LT compressor.
- Optional frame for outdoor use.
- 48l liquid receiver, with internal exchanger for connection to the emergency unit.
- Optional connection to an external RHX. RHX can be installed on MT models.
- Emergency unit not included (junctions included). Required power: 280 W @R134a Tev +5°C.
- Selectable electronic brands: Tewis (EWCM9000pro), Danfoss (AK-PC 772) or Carel (pRack PR300T Medium).
- Bitzer & Dorin compressors.
- Design pressures:
 - MP (MT suction): 52 bar.
 - LP (LT suction): 30 bar.
 - IP (Receiver and liquid line): 70 bar.
 - HP (Discharge): 120 bar.

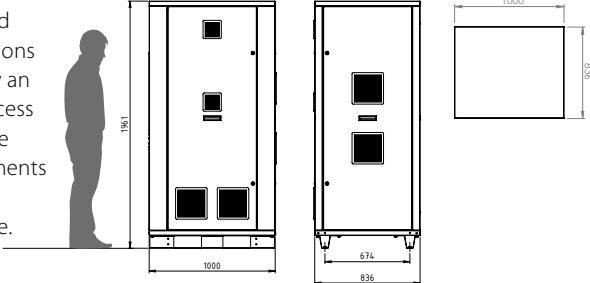


360° access, with lateral practicable door.



NS21

Reduced dimensions to allow an easy access to all the components of the machine.



- | | |
|--|---------------------------|
| | RHX |
| | Plug & Play |
| | Compact design |
| | PS 120 / 70 / 52 / 30 Bar |
| | Sound-proofing [Optional] |
| | Maintain. costs |

BITZER	GNS21JC302XBX	GNS21JC872YBX	GNS21JC882YBX	TNS21JC304XBX	TNS21JC881YBX	TNS21JC880YBX
Application		MT			MT+LT	
Capacity MT*	kW	18.17	22.63	35.15	14.24	31.88
Capacity LT*	kW		-		3.90	3.23
GC needed	kW	32.08	39.96	62.08	32.08	62.08
MT Compressors	nº	1x 2MTE-5K + 1x 2KTE-7K	1x 4PTC-7K + 1x 4MTC-7K	1x 4MTC-10K + 1x 4KTC-10K	1x 2MTE-5K + 1x 2KTE-7K	1x 4MTC-10K + 1x 4KTC-10K
LT Compressors	nº		-		1x 2MSL-07K	1x 2NSL-05K
Lp**	dB(A)	38.7	46.7	47.3	39.4	47.4

DORIN	GNS21JC677XDX	GNS21JC684XDX	GNS21JC750XDX	TNS21JC670XDX	TNS21JC679XDX	TNS21JC678XDX	TNS21JC658XDX	TNS21JC753XDX	TNS21JC659XDX
Application		MT			MT+LT				
Capacity MT*	kW	25.58	36.35	44.71	21.07	27.93	30.33	31.83	34.05
Capacity LT*	kW		-		4.37	8.15	5.83	4.37	10.30
GC Capacity	kW	45.17	64.18	78.95	45.17		64.18		78.95
MT Compressors	nº	1x CD475-4.7H + 1x CD490-6.4H + 1x CD475-6.4M	1x CD490-6.4H + 1x CD490-9.2M	1x CD4120-9.2H + 1x CD490-9.2M	1x CD475-4.7H + 1x CD475-6.4M	1x CD490-6.4H + 1x CD490-9.2M	1x CD490-6.4H + 1x CD490-9.2M	1x CD4120-9.2H + 1x CD490-9.2M	1x CD4120-9.2H + 1x CD490-9.2M
LT Compressors	nº		-		1x CDS101B	1x CDS181B	1x CDS151B	1x CDS101B	1x CDS301B
Lp**	dB(A)	39.6	41.2	42.1	39.7		41.3	42.2	42.1

* Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsgc +35°C. | **Sound pressure at 10m, considering a spherical surface, in open ground and with soundproofing. Tolerance ±2 dB.

AXIAL	GNV58PE	GNV58PE LPS	GNV66PE	GNV66PE LPS
Capacity	kW	58.84	52.15	88.4
Air flow	m ³ /h	16,400	12,800	24,000
Sound pressure 10m	dBA	52	46	53
Fans	nº	2x Ø500 EC		3x Ø500 EC

RAD.	GNV58NE	GNV66NE
Capacity	kW	56.28
Air flow	m ³ /h	15,000
Sound pressure 10m	dBA	49
Fans	nº	2x Ø500 EC
		3x Ø500 EC

* Calculation conditions: Air T. 35°C, GC outlet 37°C, Gas Inlet T. 115°C, Gas Pressure 92 bar. Available pressure radial models. 100 Pa



GNV58

GNV66

CO₂ compact compressor rack

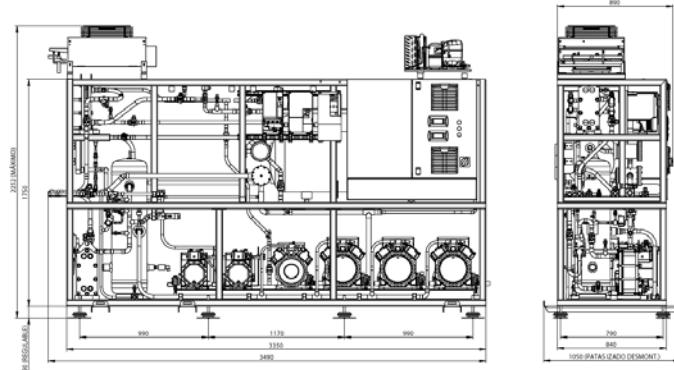
Compact compressor racks fully equipped for the generation of cold with CO₂ in transcritical cycle

- Horizontal liquid receiver: 92/120/160 lit.
- Tubular chassis.
- Electrical panel located above the compressors.
- Separator accumulator.
- Up to 6 compressors.
- Easy start-up and maintenance: all connections on the same side.
- Reduced width of 790 mm that allows it to pass through any standard door.
- Oil separator accumulator.
- 92/120/160 l liquid receiver, with internal exchanger for connection to emergency unit.
- Two electronic refrigerant level sensors (high and low levels).
- Frequency inverter for the first MT compressor and optional for the LT compressor.
- Selectable electronics brand: Tewis (EWCM9000pro), Danfoss (AK-PC 772 or 782) or Carel (pRack PR300T Medium or Large).
- All copper connections.
- Design pressures:
 - MP (MT suction): 52 bar.
 - LP (LT suction): 30 bar.
 - IP (Receiver and liquid line): 70 bar.
 - HP (Discharge): 120 bar.



Three different frame sizes available:

- 4 compressors: lenght 1,900 mm
- 5 compressors: lenght 2,650 mm
- 6 compressors: lenght 3,350 mm



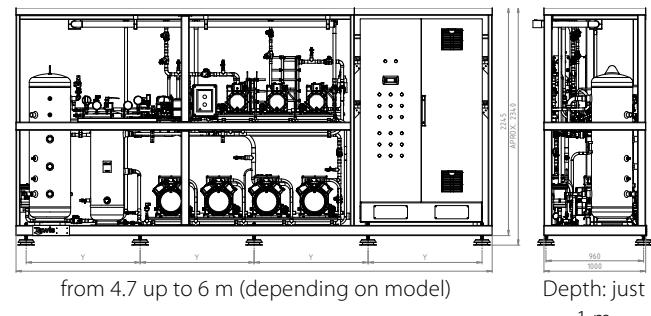
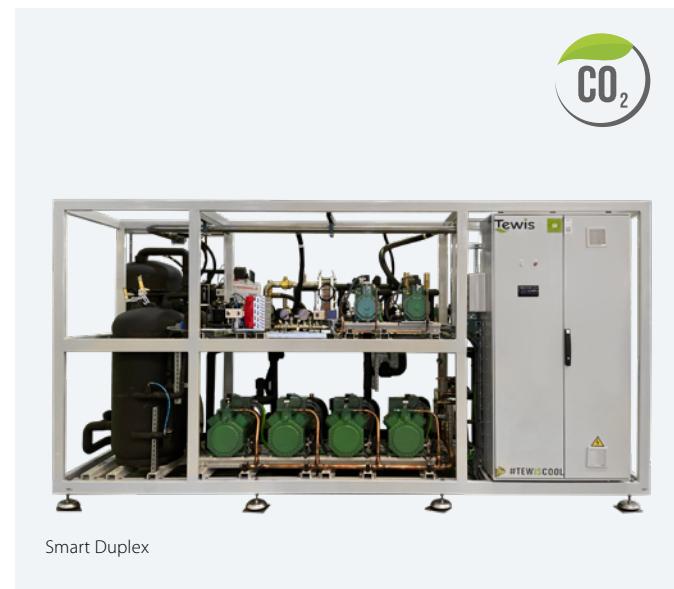
Application		GSR2FJ_093YBX	GSR2FJ_041YBX	TSR2EJ_585BX	TSR2FJ_092BX	TSR2FJ_086YBX	TSR2FJ_089YBX
		MT		MT+LT		MT+LT	
Capacity MT*	70 Hz	kW	94.9	114.67	36.84	62.7	75.26
Capacity LT*	70 Hz	kW		-	5.79	6.48	6.48
MT Compressors	nº	1x 4JTE-15K (V.F.) + 2x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4FTE-20K	1x 4JTE-15K (V.F.) + 1x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4FTE-20K	1x 4HTE-20K (V.F.) + 2x 4HTE-20K	1x 4HTE-20K (V.F.) + 1x 4HTE-20K
Parallel Compressors	nº	1x 4MTE-10K	1x 4JTE-15K			-	1x 4MTE-10K
LT Compressors	nº	-		1x 2KSL-1K	1x 2KSL-1K	1x 2KSL-1K	1x 2KSL-1K
Application		TSR2FJ_439YBX	TSR2FJ_090YBX	TSR2FJ_490YBX	TSR2FJ_489YBX	TSR2EJ_112BX	TSR2FJ_128XB
		MT+LT		MT+LT		MT+LT	
Capacity MT*	70 Hz	kW	70.61	37.97	62.01	73.76	20.47
Capacity LT*	70 Hz	kW	11.1	12.7	14.16	14.16	18.5
MT Compressors	nº	1x 4HTE-20K (V.F.) + 2x 4HTE-20K	1x 4JTE-15K (V.F.) + 1x 4HTE-20K	1x 4JTE-15K (V.F.) + 1x 4TE-15K	1x 4HTE-20K (V.F.) + 1x 4HTE-20K	1x 4JTE-15K (V.F.) + 1x 4JTE-15K	1x 4HTE-20K (V.F.) + 1x 4FTE-20K
Parallel Compressors	nº	-	1x 4MTE-10K	1x 4MTE-10K	1x 4MTE-10K	-	-
LT Compressors	nº	1x 2KSL-1K + 1x 2KSL-1K	1x 2GSL-3K	1x 2JSL-2K + 1x 2JSL-2K	1x 2JSL-2K + 1x 2JSL-2K	1x 2HSL-3K + 1x 2HSL-3K	1x 2HSL-3K + 1x 2HSL-3K
Application		TSR2FJ_128XB	TSR2EJ_893BX	TSR2FJ_193YBX	TSR2EJ_895BX	TSR2FJ_444YBX	TSR2FJ_088YBX
		MT+LT		MT+LT		MT+LT	
Capacity MT*	70 Hz	kW	80.75	22.5	82.91	22.81	46.8
Capacity LT*	70 Hz	kW	18.5	21.06	21.77	28.07	27.82
MT Compressors	nº	1x 4HTE-20K (V.F.) + 2x 4FTE-20K	1x 4JTE-15K (V.F.) + 1x 4HTE-20K	1x 4HTE-20K (V.F.) + 2x 4FTE-20K	1x 4HTE-20K (V.F.) + 1x 4HTE-20K	1x 4JTE-15K (V.F.) + 2x 4HTE-20K	1x 4HTE-20K (V.F.) + 2x 4FTE-20K
Parallel Compressors	nº	-	-	-	-	-	-
LT Compressors	nº	2x 2HSL-3K	1x 2GSL-3K + 1x 2GSL-3K	1x 2GSL-3K + 1x 2GSL-3K	1x 2FSL-4K + 1x 2FSL-4K	1x 2FSL-4K + 1x 2FSL-4K	1x 2FSL-4K + 1x 2FSL-4K
Application		TSR2GJ_001ZBX	TSR2GJ_002ZBX	TSR2GJ_003ZBX	TSR2GJ_004ZBX	TSR2GJ_995YBX	TSR2GJ_005ZBX
		MT+LT		MT+LT		MT+LT	
Capacity MT*	70 Hz	kW	66.43	72.4	106.38	118.19	70
Capacity LT*	70 Hz	kW	6.68	11.1	14.16	21.77	25
MT Compressors	nº	1x 4MTE-10K (V.F.) + 2x 4MTE-10K	1x 4MTE-10K (V.F.) + 2x 4KTE-10K	1x 4JTE-15K (V.F.) + 2x 4HTE-15K	1x 4HTE-20K (V.F.) + 2x 4HTE-15K	1x 4JTE-15K (V.F.) + 2x 4HTE-20K	1x 4HTE-20K (V.F.) + 2x 4FTE-20K
Parallel Compressors	nº	1x 4MTE-10K (V.F.)	1x 4MTE-10K (V.F.)	1x 4JTE-15K (V.F.)	1x 4HTE-20K (V.F.)	1x 4MTE-10K (V.F.)	1x 4HTE-20K (V.F.)
LT Compressors	nº	1x 2MSL-07K (V.F.) + 1x 2MSL-07K	1x 2KSL-1K (V.F.) + 1x 2KSL-1K	1x 2JSL-2K (V.F.) + 1x 2JSL-2K	1x 2GSL-3K (V.F.) + 1x 2GSL-3K	1x 2FSL-4K (V.F.) + 1x 2FSL-4K	1x 2FSL-4K (V.F.) + 1x 2FSL-4K

* Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsgc +35°C. | Design pressures: MP (MT suction): 52 bar, LP (LT suction): 30 bar, IP (Container and liquid line): 70 bar, HP (Discharge): 120 bar | Temperature, LT = Low Temperature, pc = Parallel compressor

CO₂ compact compressor rack

Smart Duplex compressor racks offer the highest powers for the commercial refrigeration range with CO₂ at 2 temperatures

- Profitability and energy savings.
- 100% CO₂ = low environmental impact.
- Compact and simple design (only 1 m depth).
- High capacity up to 9 compressors.
- Vertical liquid receiver with high capacity (up to 2x250 l).
- Extreme flexibility.
- Remote control (accessible anywhere).
- Easy commissioning and maintenance.
- Possibility of 2 RHX, one for DHW and one for air conditioning.
- Tubular chassis.
- Oil separator accumulator.
- High capacity liquid receiver (up to 2x250 l).
- Up to 9 compressors.
- Frequency inverter for MT & LT.
- Two electronic sensors for refrigerant levels.
- All copper connections.



	GSD3KJ_048ZBX	GSD3MJ_049ZBX	TSD3JJ_028ZBX	TSD3JJ_030ZBX	TSD3JJ_031ZBX	TSD3KJ_033ZBX
Application	MT					
Capacity MT*	70 Hz	kW	179.56	266.6	52	64.41
Capacity LT*	70 Hz	kW	-	20.37	31.32	26.38
MT Compressors	n°	1x 4HTE-20K (V.F. @70 Hz) + 4x 4FTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 4x 4CTE-30K	1x 4JTE-15K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4JTE-15K (V.F. @70 Hz) + 3x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4FTE-30K + 3x 4FTE-30K
Parallel Compressors	n°	-	-	-	-	-
LT Compressors	n°	-	1x 2JSL-2K (V.F. @70 Hz) + 2x 2JSL-2K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2HSL-3K (V.F. @70 Hz) + 2x 2HSL-3K	1x 2HSL-3K (V.F. @70 Hz) + 3x 2HSL-3K
	TSD3JJ_035ZBX	TSD3JJ_034ZBX	TSD3JJ_050ZBX	TSD3JJ_051ZBX	TSD3MJ_052ZBX	TSD3MJ_053ZBX
Application	MT+LT					
Capacity MT*	70 Hz	kW	122.55	113.46	155.36	172.74
Capacity LT*	70 Hz	kW	18.62	26.81	36.44	36.44
MT Compressors	n°	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4CTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 3x 4CTE-30K	1x 4FTE-30K (V.F. @70 Hz) + 4x 4CTE-30K
Parallel Compressors	n°	-	-	-	-	-
LT Compressors	n°	1x 2HSL-3K (V.F. @70 Hz) + 1x 2HSL-3K	1x 2JSL-2K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2GSL-3K (V.F. @70 Hz) + 3x 2FSL-4K
	TSD3JJ_037ZBX	TSD3JJ_039ZBX	TSD3JJ_042ZBX	TSD3JJ_040ZBX	TSD3JJ_044ZBX	TSD3KJ_041ZBX
Application	MT+LT					
Capacity MT*	70 Hz	kW	85.97	110.01	123.56	119.33
Capacity LT*	70 Hz	kW	31.32	26.81	14.38	35.02
MT Compressors	n°	1x 4JTE-15K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4HTE-20K	1x 4JTE-15K (V.F. @70 Hz) + 2x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4HTE-20K
Parallel Compressors	n°	1x 4JTE-15K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)
LT Compressors	n°	1x 2GSL-3K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2JSL-2K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2JSL-2K (V.F. @70 Hz) + 1x 2JSL-2K	1x 2ESL-4K (V.F. @70 Hz) + 1x 2ESL-4K	1x 2GSL-3K (V.F. @70 Hz) + 1x 2FSL-4K
	TSD3KJ_041ZBX	TSD3JJ_045ZBX	TSD3KJ_046ZBX	TSD3KJ_047ZBX	TSD3KJ_096ZBX	
Application	MT+LT					
Capacity MT*	70 Hz	kW	123.71	130.05	174.7	188.76
Capacity LT*	70 Hz	kW	36.44	31.32	49.61	36.44
MT Compressors	n°	1x 4HTE-20K (V.F. @70 Hz) + 3x 4HTE-20K	1x 4HTE-20K (V.F. @70 Hz) + 2x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4HTE-20K (V.F. @70 Hz) + 3x 4FTE-30K	1x 4GTE-30K (V.F. @70 Hz) + 2x 4DTE-25K
Parallel Compressors	n°	1x 4HTE-20K (V.F.)	1x 4HTE-20K (V.F.)	1x 4FTE-30K (V.F.)	1x 4FTE-30K (V.F.)	1x 4HTE-20K (V.F.) + 1x 4HTE-20K
LT Compressors	n°	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2GSL-3K	1x 2ESL-4K (V.F. @70 Hz) + 2x 2ESL-4K	1x 2GSL-3K (V.F. @70 Hz) + 2x 2FSL-4K	1x 2HSL-3K (V.F. @70 Hz) + 1x 2HSL-3K

*Calculation conditions: Tev MT -8°C, Tev LT -32°C, Tsgc +35°C.

Switchboard & electronic control

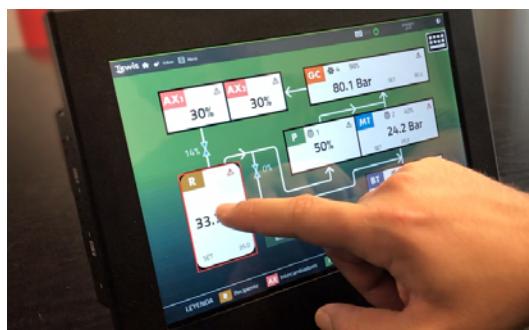
Switchboard

- Bench-mounted switchboard, including complete wiring.
- Power supply at 400V / 3F + N / 50Hz
- Frequency inverter in the first compressor in sections BT, MT and parallel
- Booster components and remote gas coolers electrically protected against overcurrents and short circuits.
- Option: electrical connections of power supply to the auxiliary unit



Electronic control

- It represents the best option for transcritical and subcritical CO₂ solutions with Booster circuit and allows to manage up to two circuits for the recovery of heat.
- Tevis System compatible and open for the integration of Modbus RTU / TCP or BACnet MS / TP (optional) systems.
- Touch screen with synoptic and real-time data.
- Data logging and alarms.
- Historical charts and data tables.
- Parameter management.



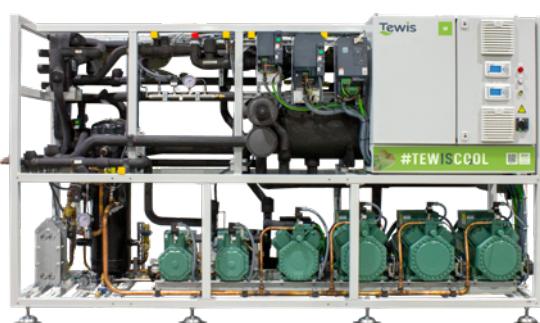


Fresh ideas
for reliable performance

Choose the better
solution – with Tewis Full
CO₂ refrigeration systems

Why do so many widely-known retail chains count on Tewis? Because Tewis offers a well-thought-out, complete range of efficient refrigeration systems. Especially when working with R-744 under high pressure, best quality solutions count double. Avoid problems – with Tewis features like full stainless steel piping or surprisingly intuitive control systems.

www.daikin.eu





Integrated solutions





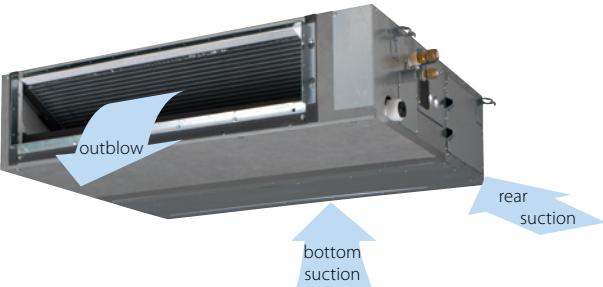
Model	Product name	Capacity (kW)	0	2	5	10	25	50	100	150	300	450
Conveni-Pack LRYEQ-AY 	Integrated solution for chilling, freezing, comfort cooling and heating		LT MT A/C HR + HP									
CO ₂ Conveni-Pack LRNUN-AY1, LRYEN-AY1 			MT AC HR									

Indoor units compatible with CO₂ Conveni-Pack

NEW



CO₂ Round Flow Cassette
FXFN-A



Concealed Ceiling Unit
FXSN-A2

Service station (Ranst, Belgium)

Conveni-Pack

Discover why a Belgian petrol station owner chose Daikin for its shop comfort and refrigeration needs.
www.youtube.com/DaikinEurope



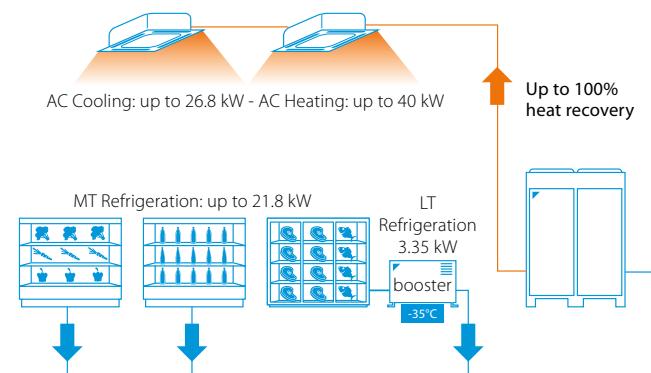
Conveni-Pack, integrated solution for commercial refrigeration, heating and air conditioning

Why choose Conveni-Pack?

Competition in the retail food sector is fierce. This does not just affect the income you can earn from sales - operating costs are also a determining factor for success.

Energy efficient heat recovery system

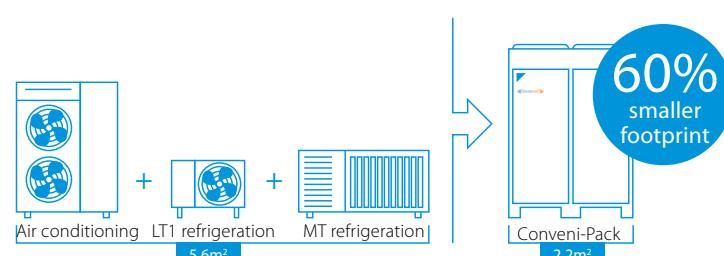
- Conveni-Pack recovers up to 100% of the heat extracted from supermarket refrigeration cases and re-uses it to heat the retail space and improve shop comfort at no additional cost (heat recovery system)
- Savings of up to 50% on energy costs
- Daikin inverter scroll compressor with economizer technology



Above-mentioned scheme is an example of what can be delivered depending on predefined conditions. For more detailed information, please consult the technical specifications in this catalogue.

Installing a compact solution

- Easy to install, even in small spaces
- Small footprint (up to 60% smaller footprint than conventional systems) and low weight
- Reduced piping requirements
- Minimal planning groundwork and lower assembly costs



Unique combination

- First mass-produced, whole-building system to combine medium and low refrigeration, heating, air conditioning in one circuit

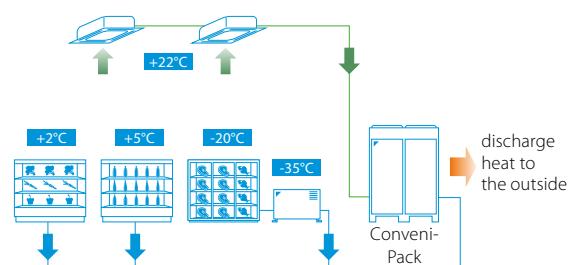
Reliable operation

- Error-proof component selection
- Factory leak-tested and pre-charged

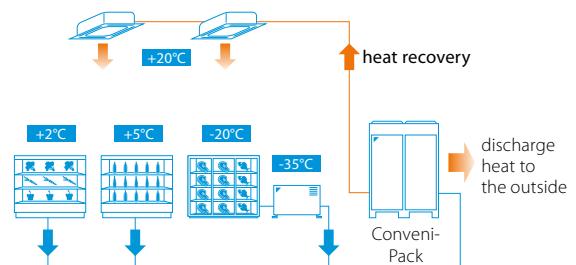
Year-round climate comfort

- Quiet operation: Improved acoustics thanks to night operation mode, inverter control and inverter driven fans with optimised blades and grills
- High grade sound insulation on both panels and compressors
- Specially designed fan blades to limit sound emissions
- 4 low sound operation settings including night mode
- The heat recovered from refrigerated and freezer display cabinets can be used to provide heating for the shop.

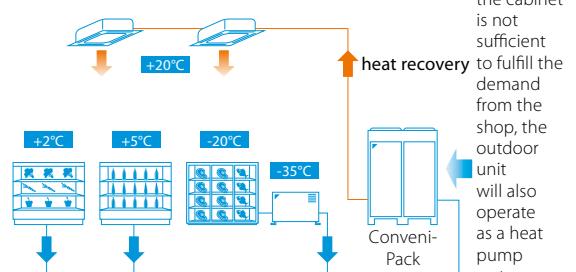
Summer



Spring/Autumn



Winter



Internationally awarded

Winner of several awards* thanks to the innovating technology used and environmental friendly solution offered:

- Winner of UK Environmental Product of the Year, Cooling Industry Awards - 2006
- Winner of Incentive Prize, German Environment Ministry - 2007
- Winner of the Innovation Trophy, equipmag (exhibition in France) - 2008
- Winner of 2014 Institute of Refrigeration Ireland (IRI) Environmental award
- Environmental Friendliness category of the Top Retail Product Awards 2014 in Germany



Reference

Edeka Buschkühle supermarket (Germany)

2 Conveni-Pack systems supply 32 meters of service counters, 12.5 meters of convenience fridges, one cooling storage room for fruit, an air curtain and 5 indoor units; the ZEAS system supplies two deep-freeze cabinets with a total capacity of 5 kW.



Discover more references on
www.daikineurope.com/references

Benefits for installers/ consultants

- Integrated electrical & control box
- Unit already pre-charged with refrigerant
- Established VRV technology ensuring optimised installation and maintenance
- Reduced delivery time thanks to European manufacturing plant
- Flexible system for multiple applications
- Connectable to all grocery refrigeration applications and supplied with a wide range of air conditioning indoor units to meet shop requirements
- Outdoor units can be positioned up to 35m above or 10m below the indoor units
- Piping length possible up to 130m
- Suitable for indoor installation through the use of high ESP fans

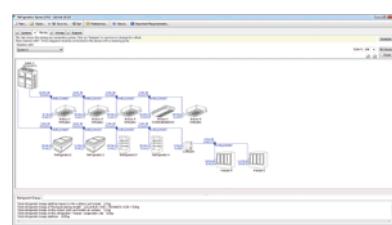
Benefits for shop owners

- Thought design for supermarkets and smaller retail outlets
- Maximised retail sales space available as Conveni-Pack has a footprint up to 60% smaller than conventional grocery refrigeration systems
- Reduced energy consumption by up to 50% through heat recovery
- Quiet operation, thus ideal for densely populated urban areas

Marketing tools

Refrigeration Xpress

User-friendly design software for Conveni-Pack, CCU, SCU and ZEAS condensing units. Its detailed report includes a list of materials, piping and wiring diagrams, and device options.



Short videos

- Watch a short animation on the unique refrigeration solution Conveni-Pack



CO₂ Conveni-Pack

Why choose CO₂ Conveni-pack?

- DX Refrigeration, Heating & Space cooling by CO₂, for those whom demand a totally natural solution
- Heat recovery, and for those colder days automatic heat pump operation
- Fully assembled & packaged unit, providing low noise levels
- Mass produced in Daikin Europe's award winning factory
- Each unit is fully factory & run tested
- All units in stock, fast delivery
- Reduces annual energy consumption by up to 50%, compared to other manufacturers solutions.
- Hermetic swing compressor, complete with two stage compression, for lower running temperatures
- Oversized DC Brushless motor technology for improved reliability & efficiency
- Automatically balances refrigeration & space heating / cooling loads
- "Plug and Play" technology, reduced "On site" commissioning
- Optimized control logic for reliability and efficiencies
- Adaptable evaporation temperature control



Natural HVACR 4 life:

the birth of CO₂ CVP and CO₂ round-flow cassette!



Life Project subject: "A sustainability-focused research project exploring the use of CO₂ as a natural refrigerant led by Daikin Europe and co-funded by the EU" (<https://www.naturalhvacr4life.eu/>)

Actions

- Demonstrate a Conveni-Pack prototype with R744 as refrigerant.
- Install, operate and monitor the performance of multiple Conveni-Pack prototypes in supermarkets across Europe, ranging from average to warm climates (Germany and Spain)
→ extended to United Kingdom, Belgium, France and Italy.
- Research and develop an economically viable cassette indoor unit for comfort cooling and heating.
- Evaluate the potential of adding cold storage / adiabatic cooling to further reduce carbon emissions.
- Communicate about the Life project through exhibitions, conferences and online tools / Share project insights with policymakers and standardization bodies to facilitate the update of safety and energy related standards and labels.
- Replicability - business plan and transfer of technology know how to similar products
→ technology used on the CVP has been reused on the CO₂ ZEAS and further improved, this to fulfill new high ambient needs. (Tambient > 38°C)



CO₂ ZEAS range
(8 till 15 HP)

12 food retail shops accross EU



Average climate zone

- Germany:
 - **PENNY.** [4 shops]
 - **BIO COMPANY®** [1 shop]
 - **ebiV Naturkost** [2 shops]
- France: **Supermarché coccinelle** [1 shop]
- UK: **(SO)** [1 shop]
- CZECH: Factory shop [1 shop]
- Belgium:
 - Factory shop [1 shop]
 - **(Q8)** [1 shop]

Hot climate zone

- France: **Carrefour** [2 shops]
- Italy: **naturasi** [2 shops]
- Spain: Tewis fact. Test facility

CO_2 CVP: On the roof

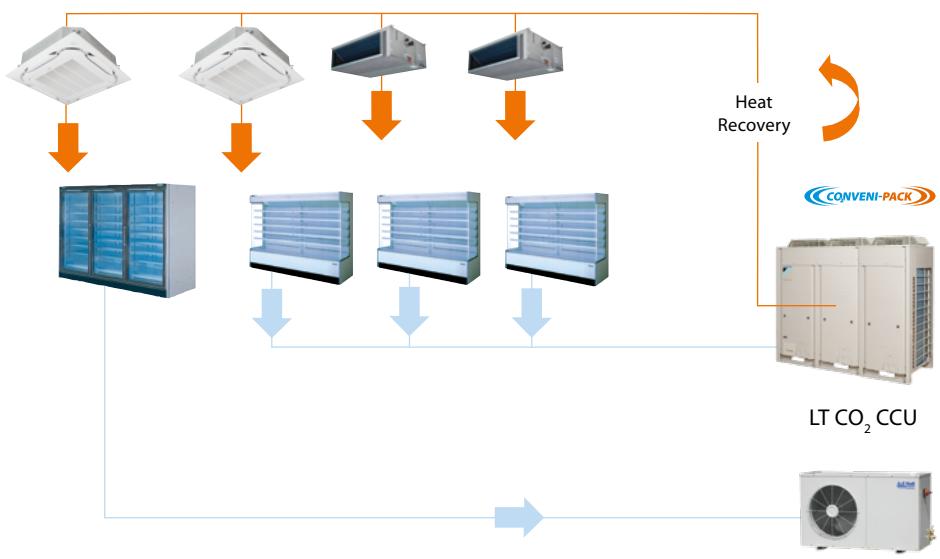


Low Temperature Showcases

Optional CO_2 CCU's are also available for Remote LT applications (not connected to Conveni-pack)



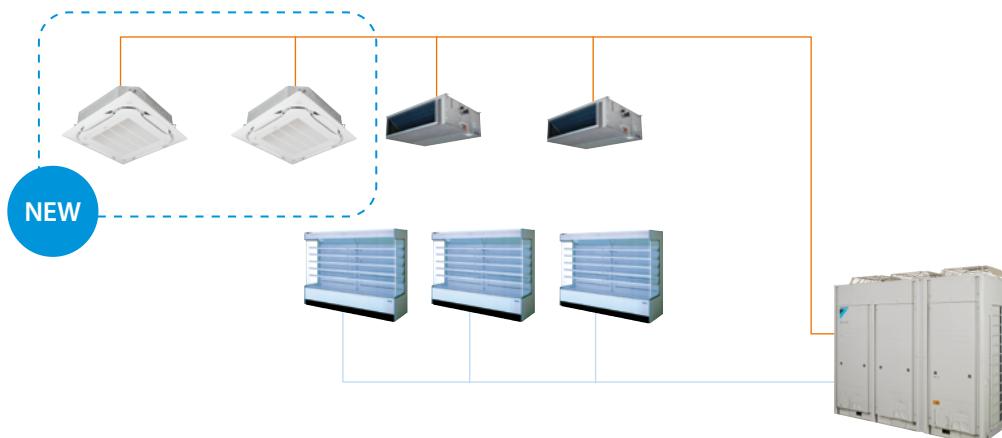
Plugin LT showcases with propane or LT condensing units with CO_2 are available to satisfy also freezer capacity needs.



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



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

LRYEN10AY1+LRNUNSA7Y1 | 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

- 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



Model	Refrigeration Capacity*	HR Capacity		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	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	SAY1
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	
Weight	Unit		kg	1,680x635x765
Heat exchanger	Type			173
Compressor	Type			Cross fin coil
	Output	W		Hermetically sealed swing compressor
	Piston displacement	m ³ /h		4,600.0
Fan	Starting method			6.16
	Type			Direct on line (inverter driven)
	Quantity			Propeller fan
	Air flow rate	Cooling Nom.	m ³ /min	1
Fan motor	Output	W		102
Sound pressure level	Nom.	dBA		350
Refrigerant	GWP			65.0 (1)
	Type 2			1.0
	Charge	kg		R-744
Power supply	Phase/Frequency/Voltage	Hz/V		3.20
				Electronic expansion valve
				3N~50/380-415

(1)LRYEN10A/Y1+LRNUN5A/Y1 | 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 Cascade

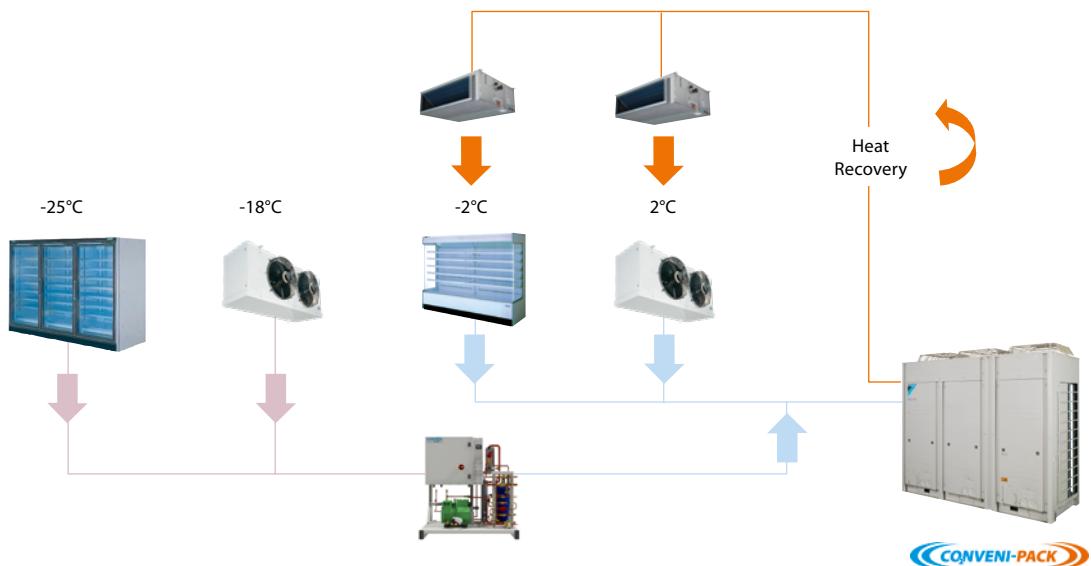
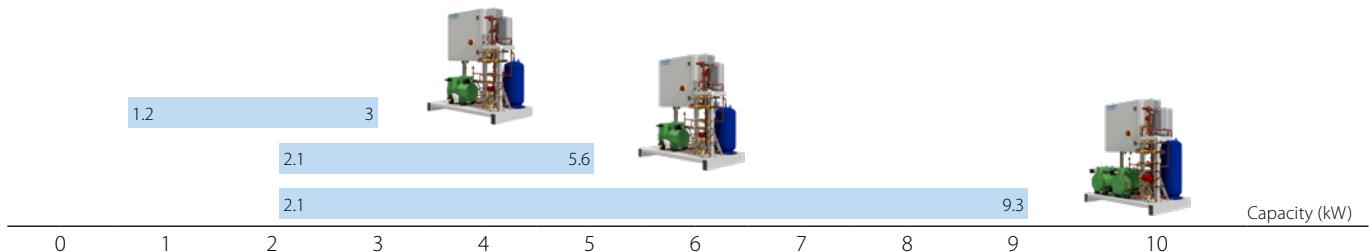
Allows you to combine medium and low temperature into one application

- Controls: you have the choice between Carel (C) and Wurm (W)
- Large liquid receiver of 15 liters to allow a correct operation of the unit
- The necessary safety requirements are standard foreseen in the equipment
 - HP side: Dual PRV 53 bar,
 - LP side: Single PRV 30 bar
- Standard accessories (included):
 - Filter drier and sight glass
 - Pressure dial gauges on High & Low pressure side



CO₂ cascade capacity range **NEW**

(Te = -32°C, Tc = 0°C, 2K SC, 10 K SH)



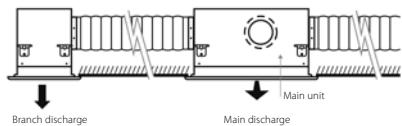
CONVENI-PACK

Technical Specifications		LCBLN030AY1C/W	LCBLN045AY1C/W	LCLLN085AY1C/W
Compressor	Quantity	1	1	2
	Type / Brand		Bitzer Semi-hermetic Reciprocating	
	Model	2NSL-05K-40S		2LSL-1K-40S
	Starting method	Inverter		Inverter + ON/OFF
Dimensions	Unit	Height mm	1,203	
		Width mm	1,100	
		Depth mm	616	
Weight	Unit	kg	217	260

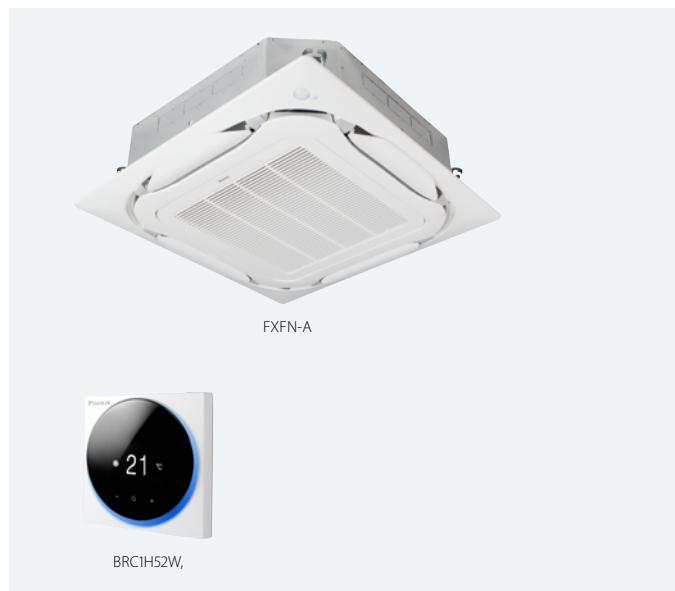
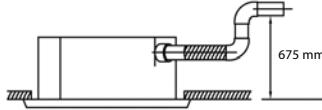
CO₂ Round Flow Cassette

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)
Daikin Round Flow 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)



FXFN-A

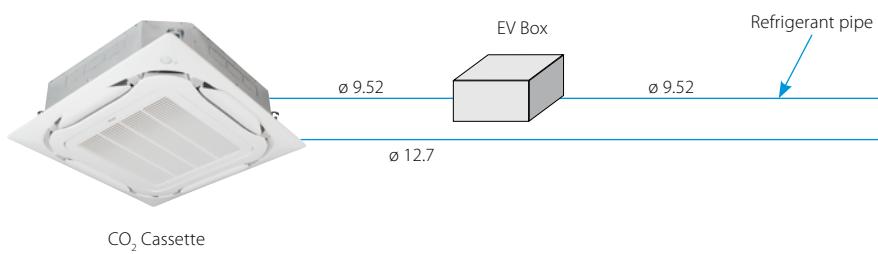
			FXFN-A	50	71	112
Capacity (H tap)	Cooling	Nom. kW		5.6	8.0	12.5
	Heating	Nom. kW		6.3	9.0	14.0
Dimensions	Unit	HeightxWidthxDepth mm		246x840x840		288x840x840
Weight	Unit	gross kg		29		32
		net kg		26		29
Fan	Type			Turbo fan		
	Quantity			1		
Air flow rate	Cooling/heating	high/medium/low m ³ /h		15.5/12.8/10.7	23.2/19.4/13.8	32.7/27.6/20.6
Fan motor	Output	W				
Sound power level	Cooling	dBA		53	58	63
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.



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



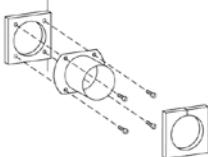
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Multi zoning kit 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



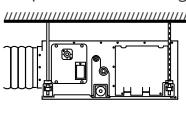
* Brings in up to 10% of fresh air into the room

Optional fresh air intake kit

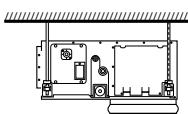


* Allow larger quantities of fresh air to be brought in

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



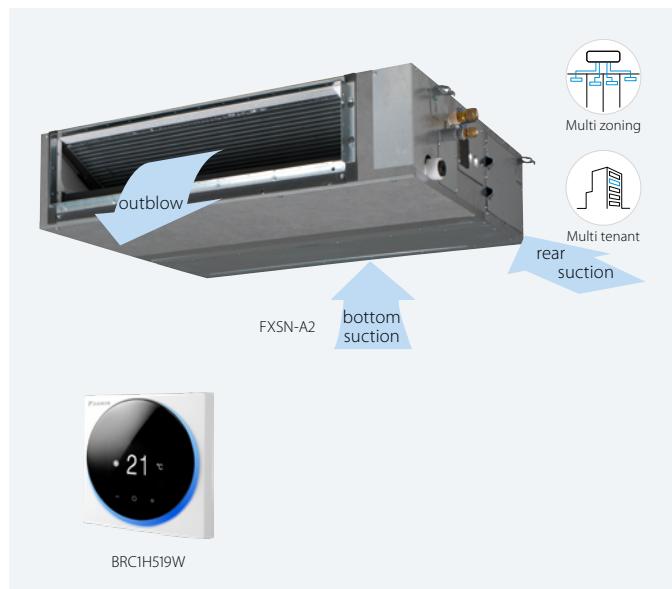
For free use into a false ceiling



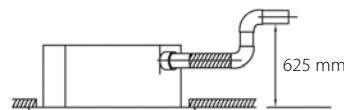
For connecting onto a suction canvas (not supplied by Daikin)

Indoor unit	FXSN	50A2	71A2	112A2	
Cooling capacity	Total capacity Nom.	kW	5.60	8.00	
Heating capacity	Total capacity Nom.	kW	6.30	9.00	
Power input - 50Hz	Cooling Nom.	kW	0.186	0.258	
	Heating Nom.	kW	0.181	0.253	
Dimensions	Unit HeightxWidthxDepth	mm	245x700x800	245x1,000x800	
Weight	Unit	kg	31.0	40.0	
Casing	Material		Galvanised steel plate		
Fan	Air flow rate Cooling - 50Hz	High / Medium / Low m ³ /min	15.2/13.0/11.0	23.0/19.5/16.0	
	Heating	High / Medium / Low m ³ /min	15.2/13.0/11.0	23.0/19.5/16.0	
	External static pressure - 50Hz	Factory set / High Pa	30/150	40/150	
Air filter	Type		Resinnet		
Sound power level	Cooling	At high fan speed	dBA	61	
Sound pressure level	Cooling	High / Medium / Low	dBA	36.0/33.0/31.0	
	Heating	High / Medium / Low	dBA	38.0/35.0/32.0	
Refrigerant	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



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

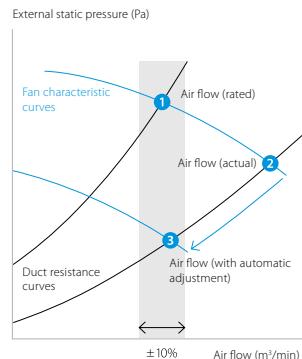


Automatic Airflow Adjustment function

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

Why?

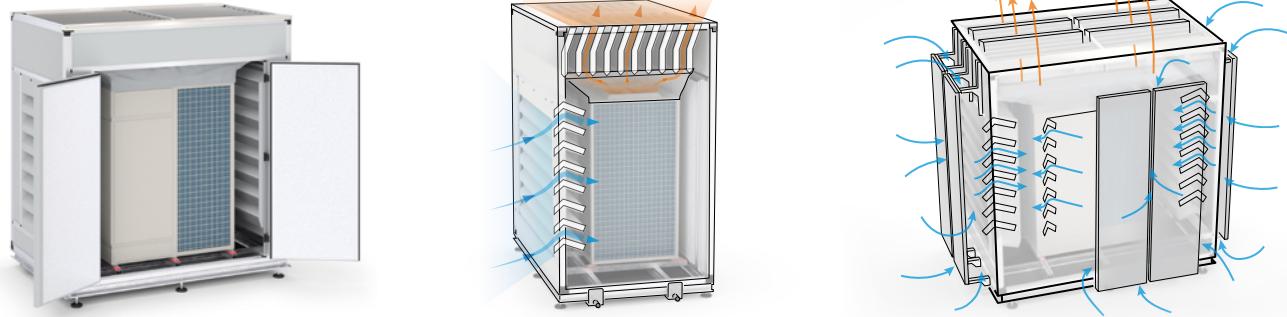
After installation the real ducting will frequently differ from the initially calculated air flow resistance * the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature. Automatic Airflow Adjustment function will adapt the unit's fan speed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



FXSN-A2

Acoustic solution for Conveni-pack

- Complete & professional housing solution, series KVD specially designed for Daikin CVP units
- Stable and storm proof construction, tested and verified by TÜV Austria
- Extremely low static pressure drop, measured by TÜV Austria
- Highest soundproofing values thanks to multi-layered sound insulation
- Already assembled ex works -> ensures very quick installation of the outdoor unit
- Base frame made of steel-profiles, insulated bottom and drain pan are standard
- Housing can be modified for an even higher dampening with additional deflection plates and hoods



Please contact:

Kellner Engineering GmbH
kellner.r@kellner-engineering.com
www.kellner-engineering.com
Office: +43-2236-660048



suitable for 1x Daikin LRYEN10AY1 (10 HP)

acoustic housing type	external dimensions (HxWxD)	sound dampening ¹		pressure drop ²	weight
		on average Ø	vertically		
Kellner KVD300-PV Standard	2,350x3,071x1,461 mm	-18 dB(A)	-13 dB(A)	< 20 Pa	850 kg
+ deflection plates (8 pc.)	2,350x3,671x1,761 mm	-21 dB(A)	-13 dB(A)	< 25 Pa	320 kg
+ redirection hood (exhaust front)	3,100x3,671x1,761 mm	-24 dB(A)	-24 dB(A)	< 32 Pa	300 kg
Kellner KVD300-PV-UL Ultra	2,550x3,071x1,461 mm	-20 dB(A)	-18 dB(A)	< 25 Pa	875 kg
+ deflection plates (8 pc.)	2,550x3,671x1,761 mm	-23 dB(A)	-18 dB(A)	< 30 Pa	320 kg
+ redirection hood (exhaust front)	3,300x3,671x1,761 mm	-25 dB(A)	-26 dB(A)	< 37 Pa	300 kg

suitable for 1x Daikin LRYEN10AY1 (10 HP) + 1x Daikin LRNU5AY1 (5 HP)

acoustic housing type	external dimensions (HxWxD)	sound dampening ¹		pressure drop ²	weight
		on average Ø	vertically		
Kellner KVD310-PV Standard	2,350x3,871x1,461 mm	-18 dB(A)	-13 dB(A)	< 20 Pa	975 kg
+ deflection plates (10 pc.)	2,350x4,471x1,761 mm	-21 dB(A)	-13 dB(A)	< 25 Pa	400 kg
+ redirection hood (exhaust front)	3,100x4,471x1,761 mm	-24 dB(A)	-24 dB(A)	< 32 Pa	350 kg
Kellner KVD310-PV-UL Ultra	2,550x3,871x1,461 mm	-20 dB(A)	-18 dB(A)	< 25 Pa	1,000 kg
+ deflection plates (10 pc.)	2,550x4,471x1,761 mm	-23 dB(A)	-18 dB(A)	< 30 Pa	400 kg
+ redirection hood (exhaust front)	3,300x4,471x1,761 mm	-25 dB(A)	-26 dB(A)	< 37 Pa	350 kg

(1) NORM EN ISO 9614-2:1997 - Determination of the sound power level of noise sources from sound intensity measurements

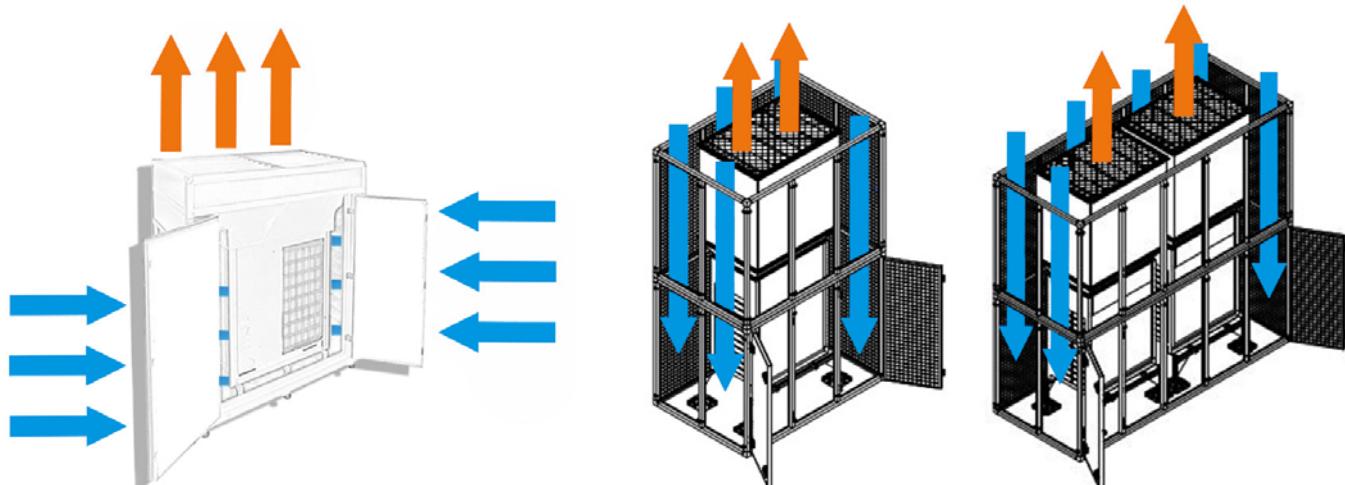
EN ISO 11546-1:2010 - Determination of the sound insulation of soundproofing capsules

EN ISO 717-1:2013 - Assessment of sound insulation in buildings and building components

(2) total pressure drop at maximum air-flow

Acoustic solution for Conveni-Pack

- Solflex acoustic solutions have been developed to reduce the sound emissions of outdoor units without limiting functionality.
- Nominal sound reduction measured according to DIN EN ISO 3744 by a renomated and independent laboratory.
- Exterior surfaces are standard available in RAL7016 anthracite grey, RAL9006 white aluminium, RAL9010 pure white or in galvanised steel.
- Online technical data and configuration including sound evaluation to norm accepted by many authorities to obtain building permission.
- On demand custom made acoustic solutions with site assistance including installation for large scale projects.
- Very large variety of standard acoustic solutions available for all type of HVACR units.



For more info, please contact:

Solflex GmbH
office@solflex.eu
www.solflex.eu



suitable for 1x Daikin LRYEN10AY1 (10 HP)

acoustic housing type	external dimensions (HxWxD)	Nominal Sound Insulation ¹	pressure drop ²	weight
SDW 211763-1 A	2,450x3,150x1,600 mm	Rw(Ctr, 50-5,000): 20 dB	< 5 Pa	550 kg
V 211763-2 A	2,600x3,100x1,650 mm	D(e): 19 dB(A)	<15 Pa	1,250 kg
XV 211763-3 A	2,600x3,500x1,900 mm	D(e): 23 dB(A)	<25 Pa	1,450 kg
SQVY 211763-4 A	3,800x3,150x1,600 mm	D(e): 25 dB(A)	<25 Pa	950 kg

suitable for 1x Daikin LRYEN10AY1 (10 HP) + 1x Daikin LRNUN5AY1 (5 HP)

acoustic housing type	external dimensions (HxWxD)	Nominal Sound Insulation ¹	pressure drop ²	weight
SDW 211763-1 B	2,450x3,925x1,600 mm	Rw(Ctr, 50-5,000): 20 dB	< 5 Pa	630 kg
V 211763-2 B	2,600x3,800x1,650 mm	D(e): 19 dB(A)	<15 Pa	1,350 kg
XV 211763-3 B	2,600x4,200x1,900 mm	D(e): 23 dB(A)	<25 Pa	1,600 kg
SQVY 211763-4 B	3,800x3,925x1,600 mm	D(e): 25 dB(A)	<25 Pa	1,140 kg

(1) NORM DIN EN ISO 10140-2 - Specifies a laboratory method for measuring the airborne sound insulation of building products
 DIN EN ISO 3744 - Specifies methods for determining the sound power level or sound energy level of a noise source

(2) total pressure drop at maximum air-flow

R-410A 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



LRYEQ-AY



LRYEQ16AY



Conveni pack, in combination with a ZEAS unit.

This store was nominated by spar as its 'local supermarket of the year', thanks in part to its owner's strategic investment in a key department: Refrigeration.

By installing a Conveni pack in combination with Zeas, it was possible to **save around €10,000 on energy costs each year**, from money that would otherwise have spent on heating. **SPAR, Supermarket.**

Medium Temperature Refrigeration		LRYEQ-AY		16
Cooling capacity	Air conditioning Nom.	kW		14.0 (1)
	Refrigeration Nom.	kW		21.8 (2)
Heating capacity	Air conditioning Nom.	kW		27.0 (3)
	Refrigeration Nom.	kW		21.8 (4)
Dimensions	Unit	Height	mm	1,680
		Width	mm	1,240
		Depth	mm	765
Weight	Unit		kg	370
Heat exchanger	Type			Cross fin coil
Compressor	Type			Hermetically sealed scroll compressor
	Piston displacement	m ³ /h		13.34
	Speed	rpm		6,300
	Output	W		2,500
	Starting method			Direct on line (inverter driven)
	Frequency ON/OFF			Less than 6 times/hour
Compressor 2	Speed	rpm		2,900
	Output	W		3,600
Compressor 3	Speed	rpm		2,900
	Output	W		4,500
Fan	Type			Propeller fan
	Quantity			2
	Air flow rate	Cooling Nom.	m ³ /min	230
Fan motor	Output		W	750
	Drive			Direct drive
Sound pressure level	Nom.		dBA	62.0
Operation range	Evaporator	Cooling Min.-Max.	°CDB	-20~10
	Cooling	Ambient Min.-Max.	°CDB	-5~43
	Heating	Ambient Min.-Max.	°CDB	-15~21
Refrigerant	Type			R-410A
	GWP			2,087.5
	Charge	kg		11.5
		TCO ₂ eq		24.0
	Control			Electronic expansion valve
Power supply	Phase/Frequency/Voltage	Hz/V		3~/50/380-415

(1) Cooling priority mode: indoor temp. 27°CDB, 19°CWB; outdoor temp. 32°CDB; piping length: 7.5m; level difference: 0m (2) Cooling priority mode: evaporating temp. -10°C; outdoor temp. 32°CDB; Suction SH: 10°C (3) Heat recovery 100% mode: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; refrigeration load 18kW; piping length: 7.5m; level difference: 0m (4) Saturated temperature equivalent to suction pressure (refrigeration side): -10°C (under chilled condition); connection capacity for indoor air conditioner: 10HP, when heat recovery is 100%

Indoor units and Biddle air curtains for connection to R-410A Conveni-Pack

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

		Capacity class (kW)								
Model	Product name	50	63	71	80	100	125	140	200	250
Cooling capacity (kW) ¹		5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
Heating capacity (kW) ²		6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
Round flow cassette	FXFQ-A		•	•		•	•	•		
2-way blow ceiling mounted cassette	FXCQ-A		•	•		•		•		
Ceiling mounted corner cassette	FXKQ-MA			•						
Concealed ceiling unit with inverter driven fan	FXSQ-A		•	•		•	•	•		
Concealed ceiling unit with inverter driven fan	FXMQ-P7		•	•		•	•	•		
Large concealed ceiling unit	FXMQ-MB								•	•
Ceiling suspended unit	FXHQ-A			•			•			
4-way blow ceiling suspended unit	FXUQ-A				•		•			
Floor standing unit	FXLQ-P		•	•						
Concealed floor standing unit	FXNQ-A		•	•						

		Capacity class (kW)					
Model	Product Name	80	100	125	140	200	250
Heating capacity (kW) ²		7.4 - 9.2	11.6 - 13.4	15.6	16.2 - 19.9	29.4	29.4 - 31.1
Biddle air curtain free hanging	CYVS-DK		•	•	•	•	•
Biddle air curtain cassette	CYVM-DK		•	•	•	•	•
Biddle air curtain recessed	CYVL-DK		•	•	•	•	•

¹ Nominal cooling capacities are based on: indoor temperature: 27°CDB / 19°CWB, outdoor temperature: 35°CDB, piping length: 7.5m, level difference: 0m

² Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB / 6°CWB, piping length: 7.5m, level difference: 0m

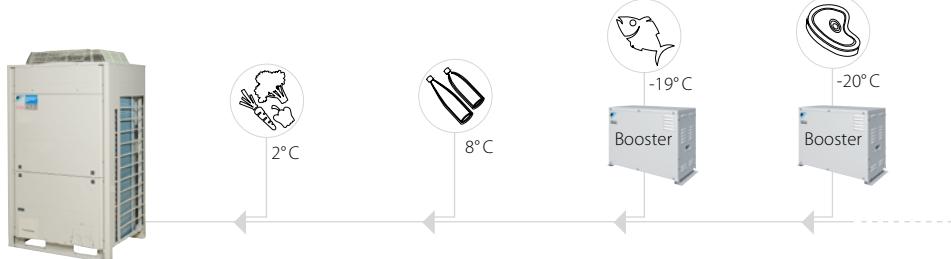
Booster unit for R-410A

- A booster unit allows to connect freezer showcases / rooms to ZEAS and Conveni-Pack outdoor units
- Reduced piping requirements, from 4 to 2 pipes, compared to a conventional system
- Low sound mode available reducing sound emissions significantly without giving in on Refrigerating capacity



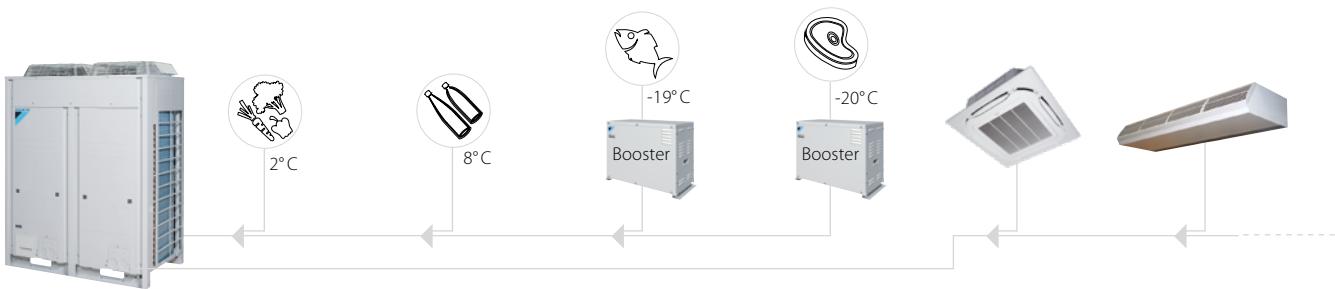
Booster with ZEAS:

Medium + low temperature refrigeration



Booster with R-410A Conveni-Pack:

Medium + low temperature refrigeration + space air conditioning + Biddle air curtain



Low Temperature Refrigeration			LCBKQ-AV1		3
Refrigerating capacity	Low temperature	Nom.	kW		3.35 (1)
Dimensions	Unit	Height	mm		480
		Width	mm		680
Weight	Unit	Depth	mm		310
Compressor	Type			Hermetically sealed swing compressor	
	Piston displacement	m³/h			10.16
	Number of revolutions	rpm			6,540
	Output	W			1,300
Fan	Starting method			Direct on line (inverter driven)	
	Frequency ON/OFF				Less than 6 times/hour
Operation range	Type			Propeller fan	
	Air flow rate	Cooling	Nom.		1.6
	Evaporator	Cooling	Min.-Max.		~45~-20
Refrigerant	Ambient temperature	Min.~Max.	°CDB		-15~43
	Type			R-410A	
	GWP				2,087.5
Piping connections	Control			Electronic expansion valve	
	For outdoor unit	Liquid	OD		6.35
	To indoor unit	Liquid	OD		6.35
	For indoor unit	Gas	OD		15.9
	To outdoor unit	Gas	OD		9.5
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240	

(I) Evaporating temp. -35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge pressure of booster unit -10°C

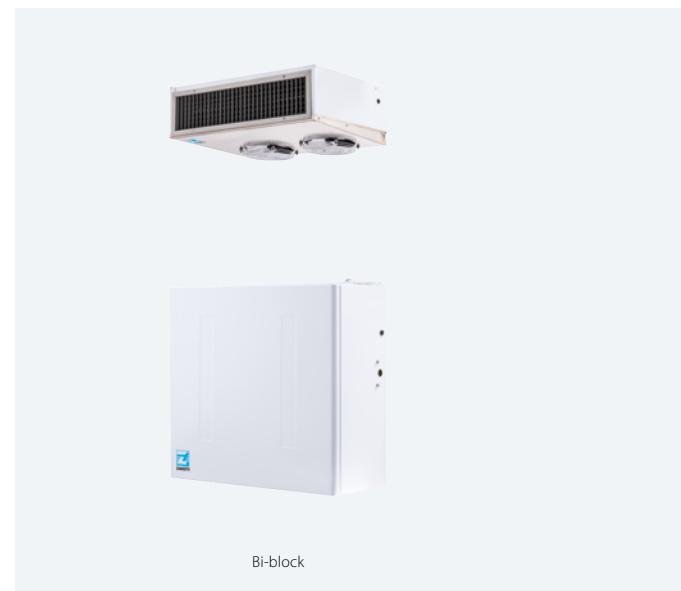


Drying and ageing units

Bi-block unit for drying and ageing of meat and cheese

For small and medium size coldrooms

- Quick and easy installation
- Low noise and vibration
- Electronic control
- Constant and detailed control of temperature and humidity level during operation
- Compact and functional, with removable panels to allow easy access to internal components
- More units available suitable for large coldrooms



SAS: Drying and ageing units for small and medium cold rooms

- Coldroom temperature: +10°C to +25°C
till 60%

SAR: Units for post-salting resting of hams for small and medium cold rooms

- Coldroom temperature: +2°C to +4°C
till 40%

Cooling capacity:

- from 2,900 to 15,900 Watt

SAR	SB.SAR212DB13SS		Bi-block units		SB.SAR430DB13SS
	Refrigerant	V/Ph~/Hz	R452A	380-400/3N~/50	
Power supply			1.5	2	4
HP compressor				Hot gas	
Defrost			1		2
PED category					
Working temperature	°C			+10 ÷ -5	
Range RH	%			40-60	
Cooling capacity [TC=10°C TA=30°C]	Watt	2,900		4,500	7,250

SAS	Bi-block units					
	SB.SAS212EB10SS	SB.SAS320EB10SS	SB.SAS430EB10SS	SB.SAS545EB10SS	SB.SAS660EB10SS	
Refrigerant	R134a					
Power supply	V/Ph~/Hz	380-400/3N~/50				
HP compressor		1	1.5	3	5	7.5
Drying	m³	5	11	23	36	45
Drying	kg	200	400	600	950	1,200
Ageing	m³	20	40	70	125	160
Ageing	kg	600	1,000	2,000	3,000	4,000
PED category		1			2	
Working temperature	°C			+25 ÷ +10		
Range RH	%			60-80		
Cooling capacity [TC=10°C TA=30°C]	Watt	3,400	4,900	8,200	12,800	15,900

Air Handling Units for industrial drying

Main Characteristics

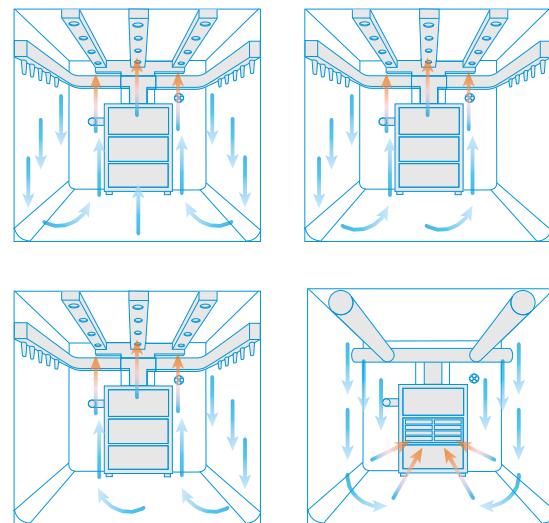
- Frascold semihermetic compressor + Thermal overload protection
- Power supply 380-400/3N~/50
- Air + Axial fan (remote)
- Embedded main electrical switchboard and remote control panel with Vision Touch controller + switch to select static/ventilated evaporator
- Hot gas defrost
- Magnetothermal switches
- Liquid line predisposition for connection to static evaporators
- Cataphoresis to the evaporator and heat recovery coil
- Remote air cooled condenser
- Soft start on centrifugal fan (starting from 15HP unit)
- Liquid Receiver + Liquid receiver shut off valves
- Safety valve
- Filter dryer
- Sight glass
- Four-pole condenser fan
- Thermostatic valve expansion
- Evaporator centrifugal fan
- Air suction duct
- Condensing unit with refrigerant charge
- Switchboard with automatic switches
- Adjustable calibration Hp switch with manual reset
- Adjustable calibration Lp switch with automatic reset
- Pressure controlled condenser fan speed regulator
- Humidity control during dehumidification with heat recovery
- Temperature control in hot with electric heaters
- Humidity control in humidification with automatic water supply
- Crankcase heater
- Fresh air intake
- Evaporator/heat recovery coil Copper/Aluminium with cataphoresis treatment
- Heat recovery coil + heating with electrical heaters
- Embedded main switchboard and remote control panel with Vision Touch Controller



Air distribution systems with textile channels

The UAV industrial drying units are equipped with large and efficient evaporators with centrifugal fan, capable of generating air flow from 1,500 to 14,600m³/h.

This allows, thanks to the special galvanized sheet T-shaped ducts designed according to the room dimensions, an optimized distribution of the treated air in the room suitable for the required process. The T-shaped ducts are complete with motorized damper.



For customized options,
please contact your sales representative.

	SB.UAV102 RBB12EAX	SB.UAV203 RBB12EAX	SB.UAV204 RBB12EAX	SB.UAV305 RBB12EAX	SB.UAV307 RBB12EAX	SB.UAV410 RBB12EAX	SB.UAV515 RBB12EAX	SB.UAV520 RBB12EAX	SB.UAV625 RBB12EAX	SB.UAV630 RBB12EAX	SB.UAV735 RBB12EAX
Refrigerant											
Power supply V/Ph~/Hz											
R449A 380-400/3N~/50											
HP compressor											
Cold room volume m ³											
Product quantity kg											
PED category											
2											
Working temperature °C											
+25 ÷ +10											
Range RH %											
60-80											
Cooling capacity Watt											
[TC=10°C TA=30°C]											
7,200 10,600 13,000 14,400 27,000 33,000 38,000 45,500 59,000 68,000 87,000											

Air handling units for industrial ageing

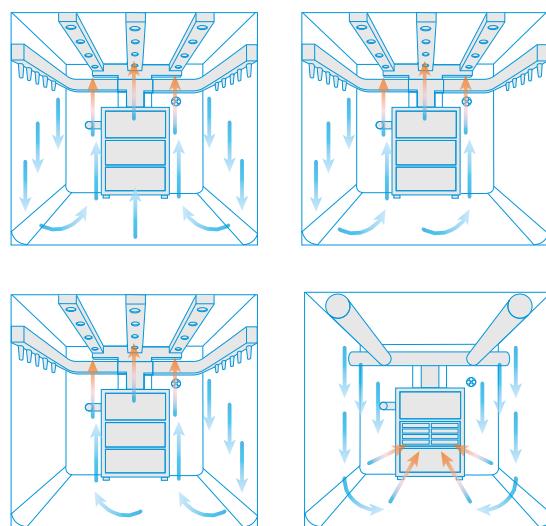
Main Characteristics

- Frascold semihermetic compressor + Thermal overload protection
- Power supply 380-400/3N~/50
- Air + Axial fan (remote)
- Embedded main electrical switchboard and remote control panel with Vision Touch controller + switch to select static/ventilated evaporator
- Hot gas defrost
- Magnetothermal switches
- Liquid line predisposition for connection to static evaporators
- Cataphoresis to the evaporator and heat recovery coil
- Remote air cooled condenser
- Soft start on centrifugal fan (starting from 15HP unit)
- Liquid Receiver + Liquid receiver shut off valves
- Safety valve
- Filter dryer
- Sight glass
- Four-pole condenser fan
- Thermostatic valve expansion
- Evaporator centrifugal fan
- Air suction duct
- Condensing unit with refrigerant charge
- Switchboard with automatic switches
- Adjustable calibration Hp switch with manual reset
- Adjustable calibration Lp switch with automatic reset
- Pressure controlled condenser fan speed regulator
- Humidity control during dehumidification with heat recovery
- Temperature control in hot with electric heaters
- Humidity control in humidification with automatic water supply
- Crankcase heater
- Fresh air intake
- Evaporator/heat recovery coil Copper/Aluminium with cataphoresis treatment
- Heat recovery coil + heating with electrical heaters
- Embedded main switchboard and remote control panel with Vision Touch Controller



Air distribution systems with textile channels

The USV industrial drying units are equipped with large and efficient evaporators with centrifugal fan, capable of generating air flow from 1,500 to 14,600 m³/h. This allows, thanks to the special galvanized sheet T-shaped ducts designed according to the room dimensions, an optimized distribution of the treated air in the room suitable for the required process. The T-shaped ducts are complete with motorized damper.



For customized options,
please contact your sales representative.

	SB.USV102 RBB12EAX	SB.USV203 RBB12EAX	SB.USV204 RBB12EAX	SB.USV305 RBB12EAX	SB.USV307 RBB12EAX	SB.USV410 RBB12EAX	SB.USV515 RBB12EAX	SB.USV520 RBB12EAX	SB.USV625 RBB12EAX	SB.USV630 RBB12EAX	SB.USV735 RBB12EAX	
Refrigerant	R449A											
Power supply	380-400/3N~/50											
HP compressor	2	3	4	5	7.5	10	15	20	25	30	35	
Cold room volume	m ³	75	90	120	180	225	240	390	490	550	680	
Product quantity	kg	1,200	2,400	3,600	5,400	7,200	9,000	10,800	14,400	19,200	24,000	
PED category		2										
Working temperature	°C	+25 ÷ +10										
Range RH	%	60-80										
Cooling capacity [TC=10°C TA=30°C]	Watt	7,200	10,600	13,000	14,400	27,000	33,000	38,000	45,500	59,000	68,000	87,000



Accessories for ZEAS and Conveni-Pack

	CO ₂ Conveni-Pack	Conveni-Pack	ZEAS				Multi-ZEAS				
	LRYEN10AY1	LRNUN5AY1	LREQ5BY1	LREQ6BY1	LREQ8BY1	LREQ10BY1	LREQ12BY1	LREQ15BY1	LREQ20BY1	LREQ15BY1Rx2	LREQ20BY1Rx2
SEE NEXT PAGE	-	-	BHGP26A1								
Digital pressure gauge kit			KHGP26B140								
Pressure gauge kit			EKPRV1				-				
Pressure Reduction Kit	(a+b+c+d) kit	KPS26C504	KPS26C160	KPS26C504	KPS26C160	KPS26C280		KPS26C504			
	a. Air outlet	KPS26C504T (left side)	KPS26C160T	KPS26C504T	KPS26C160T	KPS26C280T		KPS26C504T			
	b. Air inlet (left)	KPS26C504B	-	KPS26C504L			KPS26C504L				
	c. Air inlet (right)	KPS26C504L	KPS26C160L	KPS26C504R			KPS26C504R				
Snowbreak hood*	d. Air inlet (rear)	KPS26C504R	KPS26C160R	KPS26C504B	KPS26C160B	KPS26C280B		KPS26C504B			
	Air outlet	KPS26C160T (right side)					-				
	Air inlet (rear)	KPS26C160B (right side)					-				
Central drain pan kit			KWC26C450**	KWC26C160	KPS26C280	KPS26C450	KPS26C450*** x2				
SEE NEXT PAGE		BRR9B1V1			BRR9A1V1			BRR9A1V1****			
Modbus communication kit											
Booster unit		-			LCBKQ3AV19			-			
Suction branch pipe for multi					-			EKHRQZM*****			
Refnet header		-			KHRQM22M29H8						
		-			KHRQ22M64H8						
		-			KHRQM22M75H8						
Refnet joint		-			KHRQ22M20TA8						
		-			KHRQ22M29T9						
		-			KHRQ22M64T8						
		-			KHRQ22M75T8						
Intelligent Controller		DSC601C51				-					
Intelligent Manager		DCM601A51				-					

* Snowbreak hoods are field-supplied. For technical drawings and more information, contact your dealer. It is recommended to install a snowbreak hood when regular snowfall occurs.

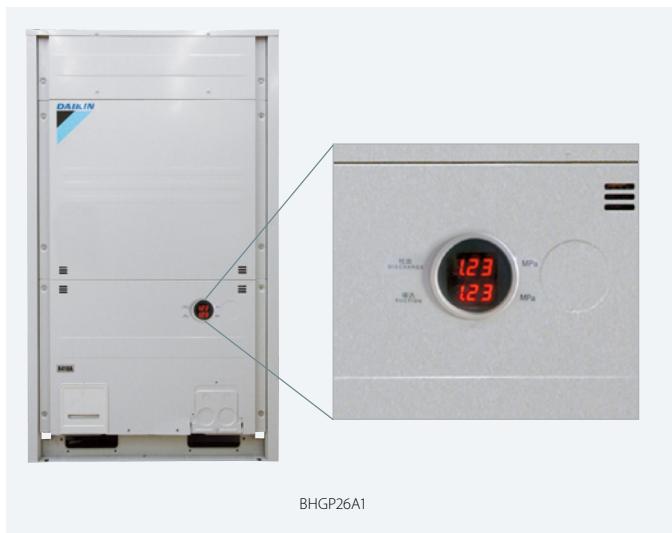
** In cold areas, provide a drain pan heater (field supply) to prevent drained water from freezing up in the drain pan *** required for each module

**** software update required (to be executed during commissioning) ***** mandatory

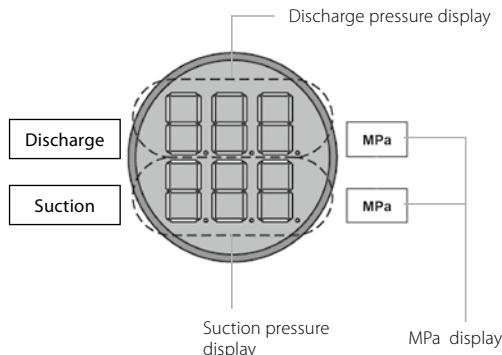
Digital pressure gauge kit

The digital measurement display allows you to diagnose a unit at a glance and it can be used with all ZEAS and R-410A Conveni-Pack systems.

- Digital measurement display for fixed installation or service applications.
- Displays high and low pressure.
- Displays error codes in the event of a fault.
- Displays up to 32 operating parameters.
- Displays error code history (last three).
- Scrolls and stores output values.
- Automatically returns to normal operating display mode.



BHPG26A1



Modbus communication kit

The Daikin Modbus Communication Interface lets you fully integrate Daikin ZEAS and Daikin R-410A 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. This unifying component transforms ZEAS and 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 32 ZEAS units, and are also suitable for use with R-410A Conveni-Pack systems and the Booster.



BRR9AV1

Control values

- Target evaporation temperature
- Low pressure level for on and off points
- Forced stop
- Error messages can be cancelled remotely

Display values

- Model information and operating status
- Refrigerant operating pressure and temperatures
- Electrical operating data and temperatures for components
- Target values
- Fan stage and compressor frequency, operating hours
- Warning and error messages as well as system safety functions

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.



BRR9B1V1



BRR9B1V1



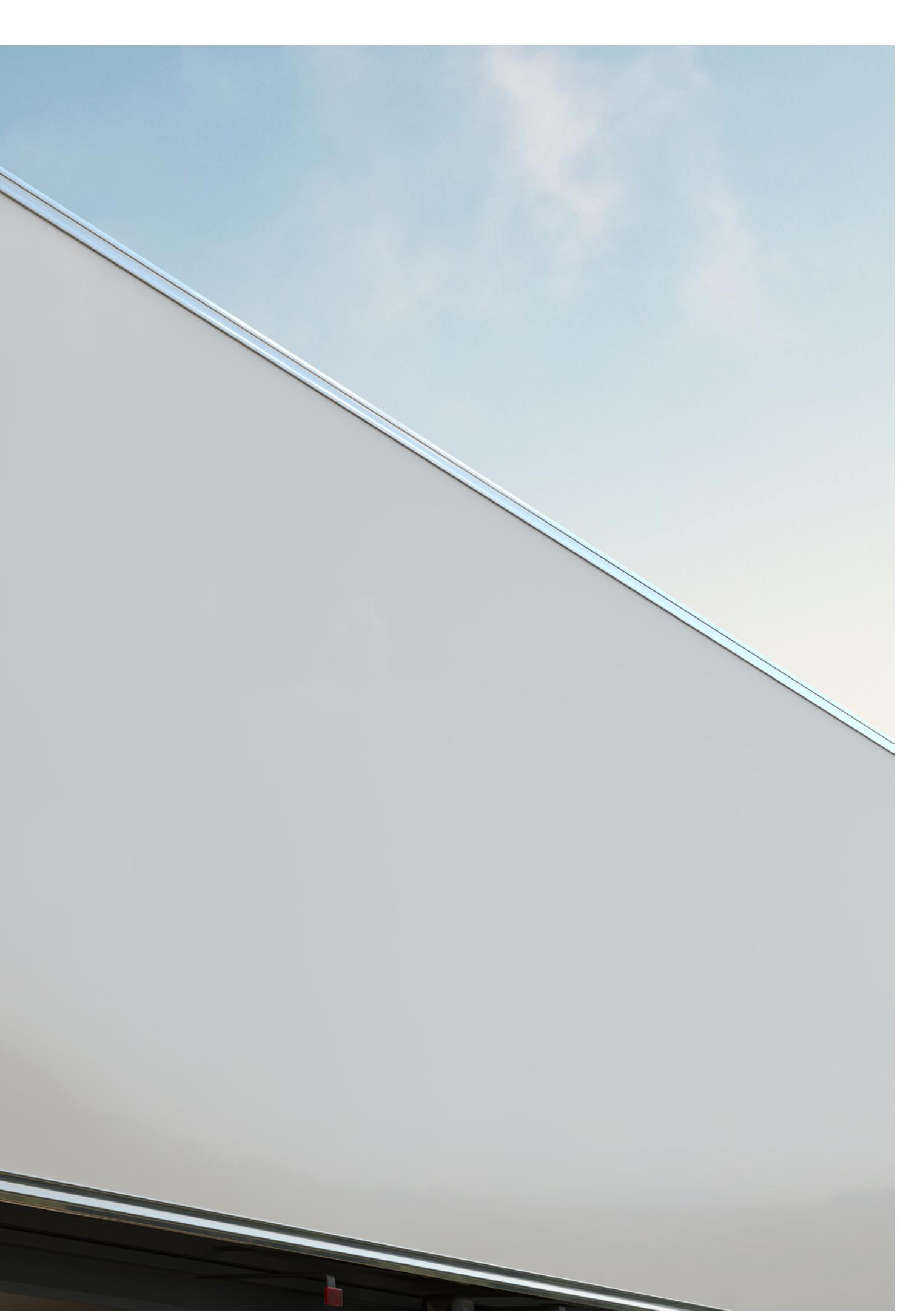


Transport Refrigeration

Transport Refrigeration

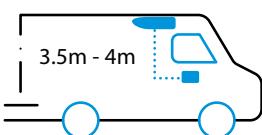
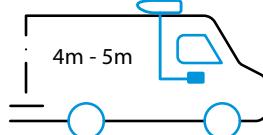
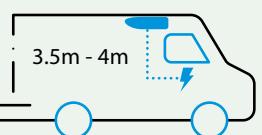
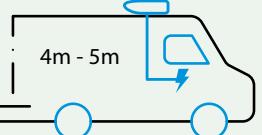


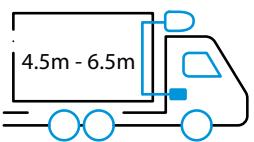
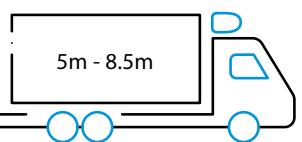
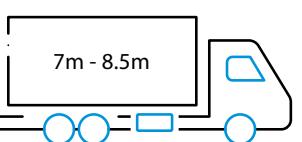
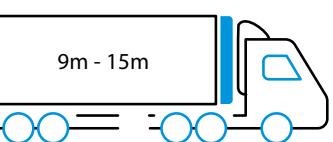




Product Portfolio

Our transport refrigeration unit range offers reliable and efficient solutions for a wide range of applications and vehicle types. Each unit is designed to minimize your total cost of ownership, configured to your exact needs, manufactured to Daikin's rigorous quality standards, and supported with a service network available 24/7.

VAN			
Direct-Drive		Electric 	
Invisible Direct-Drive	Zero Direct-Drive	Invisible Electric	Zero Electric
			
			
SFZ007 SFZ008 SFZ009	Z200 Z250 Z350 Z380	SFZ008e SFZ009e	Z120b Z200e Z250e Z350e
			
SFZ009 Multi	Z380 Multi	SFZ009e Multi	Z350e Multi

LIGHT TRUCK	TRUCK		TRAILER
SFZ	Uno	Uno Undermount	Exigo
  	 	  	 
SFZ238 SFZ248	U600 U800 U1000	UN120	E1500
 	 	 	
SFZ238 Multi SFZ248 Multi	U800 Multi U1000 Multi	UN120 Multi	

Selection tool for box size

920

Daikin Product Line	Model name	Refrigerant	Recommended Box size for 0°C [m³]	Recommended Van size for -20°C [m³]	Insulated Box Volume [m³] (with insulation K=0.4 Watts/m²°C) at 30°C ambient temperature
Van Electric range					
Z120b	R452A	8	4	4	5
Z200e	R452A	9	6	6	10
Z250e	R452A	11	7	7	15
Z350e	R452A	12	10	10	20
Z350e MT	R452A	12	9	9	25
SFZ008e	R452A	10	6	6	30
SFZ009e	R452A	12	9	9	35
SFZ009e MT	R452A	11	8	8	40
Van & Light Truck Direct Drive range					
Z200	R452A	16	10	10	45
Z250	R134A	21	N/A	N/A	50
Z250	R452A	21	16	16	55
Z350	R452A	24	18	18	60
Z380	R134A	28	N/A	N/A	65
Z380	R452A	28	21	21	70
SFZ007	R134A	11	N/A	N/A	75
SFZ008	R452A	16	10	10	80
SFZ009	R452A	24	18	18	85
SFZ238	R452A	36	28	28	90
SFZ248	R452A	42	31	31	95
Van & L. Truck Direct Drive Multi Temperature					
Zero	Z380 MT	R452A	N/A	16	45
Invisible	SFZ009 MT	R452A	N/A	15	50
SFZ	SFZ238 MT	R452A	N/A	21	55
	SFZ248 MT	R452A	N/A	27	60
Truck range					
Uno	U600	R452A	57	42	62
	U800	R452A	66	55	66
	U1000	R452A	80	70	70
Undermount truck range					
Uno Under	Un120	R452A	90	80	80
Truck Multi Temperature					
Uno	U800 MT	R452A	N/A	45	45
	U1000 MT	R452A	N/A	62	62
Uno Under	Un120 MT	R452A	N/A	60	60
Trailer					
Exigo	E1500	R452A	N/A	95	95

Note: This selection table is intended as a guide. It has been compiled using experience acquired in normal utilization of our equipment in transport and distribution. Conformity to these recommendations should guarantee your total satisfaction.

Frozen applications Chilled applications

Van Direct-Drive





Invisible Direct-Drive

SFZ007 | SFZ008 | SFZ009 | SFZ009 Multi

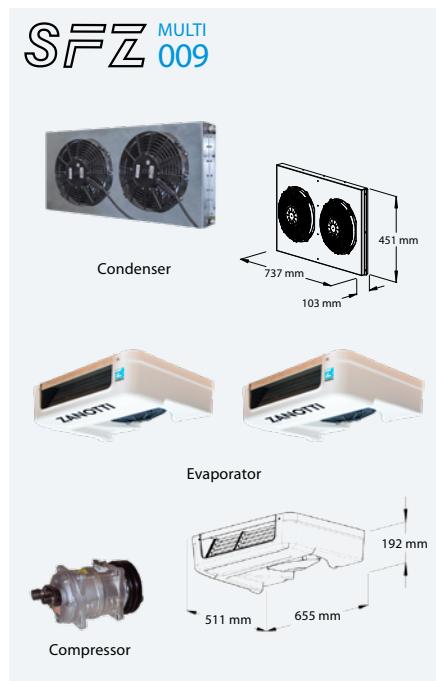
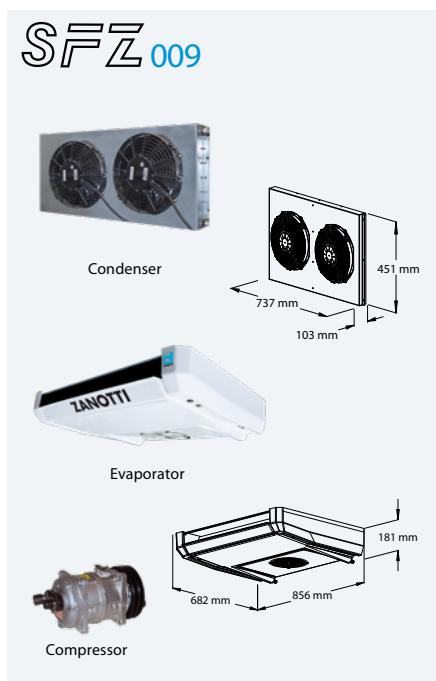
Our Invisible range is designed for discreet and efficient transportation of refrigerated products in vans. These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. SFZ007, SFZ008 and SFZ009 offer varying refrigeration capacities and volume ratings tuned for different applications. SFZ009 Multi features dual evaporators to enable products with different temperature requirements to be transported in two separate zones.

The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout the trip.

Key Features:

- Multiple temperature zones in the same vehicle (Multi model only)
- Powered by direct-drive on engine, electric stand-by
- Vehicle access to tight underground areas
- Under-chassis mounting preserves vehicle aesthetics and aerodynamics
- Invisible from the outside
- Low noise
- User-friendly cabin driver interface
- Telematics-compatible
- 2-year standard warranty





	SFZ007	SFZ008	SFZ009	SFZ009 Multi					
General									
Refrigerant	[·]	R134a		R452A					
System net cooling capacity under ATP conditions (30°C ambient temperature)									
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C	0°C	-20°C
Road mode	[W]	1,790	N/A	2,000	1,000	3,160	1,828	2,990	1,580
Stand-by mode	[W]	1,130	N/A	1,200	700	2,030	1,124	1,760	970
Heating capacity									
Road mode	[W]	N/A		1,890		2,790		2,640	
Stand-by mode	[W]	N/A		1,380		1,630		1,580	
Airflow rate									
Airflow rate at 100kPa static pressure	[m³/h]	786	786	1,062		2x 620			
Weight									
Condenser without electric stand-by	[kg]	25	38	45		45			
Condenser with electric stand-by	[kg]	50	65	75		75			
Evaporator	[kg]	10	14	20.5		20.5		2x 10.2	
Road compressor									
Displacement	[cc]	146	146	163		163			

These products contain fluorinated greenhouse gases (R134a GWP=1,430 / R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC



Zero Direct-Drive

Z200 | Z250 | Z350 | Z380

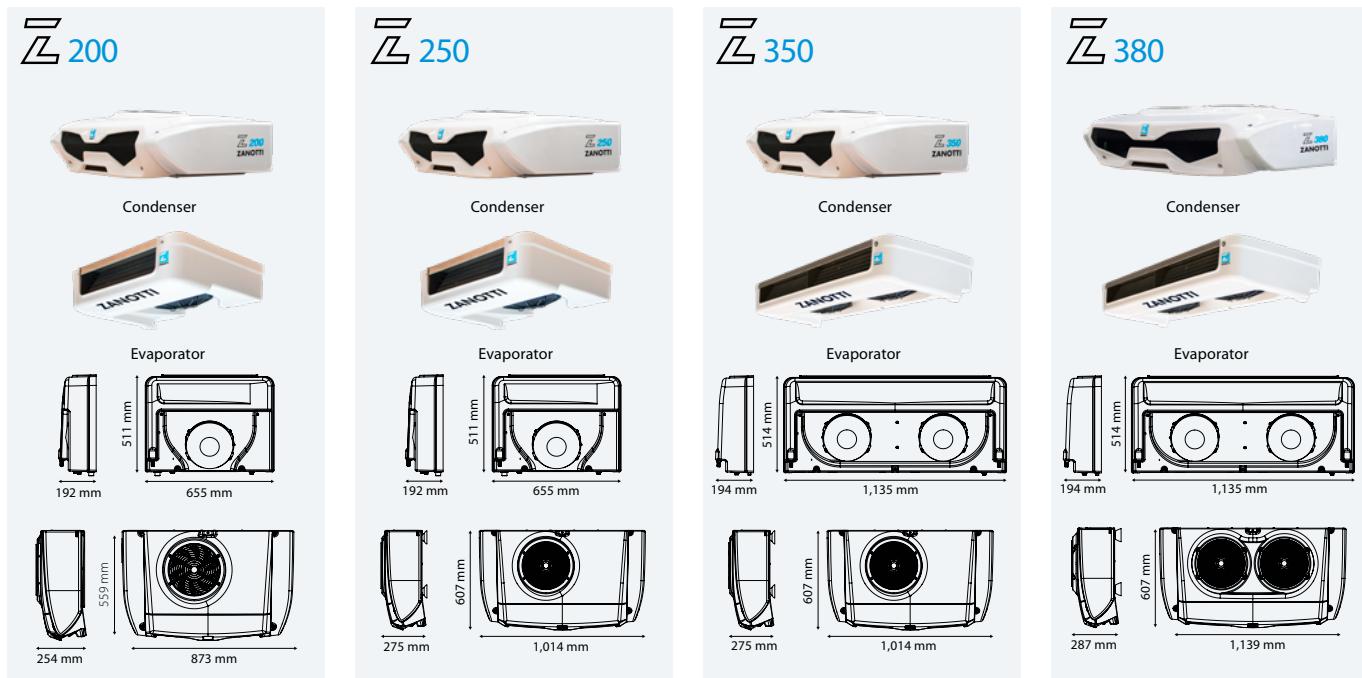
The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. The extensive direct-drive Zero line-up including Z200, Z250, Z350, and Z380 is designed to meet a wide range of applications in light commercial vehicles.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- Proven reliability and performance
- Powered by direct-drive on engine, electric stand-by
- Easy to install and service with removable side panels
- Configurable for a wide range of refrigerated applications in light commercial vehicles
- Low noise
- User-friendly cabin driver interface
- Reduced refrigerant charge and maintenance costs
- Telematics-compatible
- 2-year standard warranty





	Z250	Z380	Z200	Z250	Z350	Z380					
General											
Refrigerant	[·]	R134a			R452A						
System net cooling capacity under ATP conditions (30°C ambient temperature)											
	[°C]	0°C	-20°C								
Road mode	[W]	2,140	N/A	2,920	N/A	2,220	1,170	2,680	1,470	3,350	1,840
Stand-by mode	[W]	1,130	N/A	1,900	N/A	1,500	700	2,120	820	2,240	890
Heating capacity											
Road mode	[W]	1,930		2,620		2,100		2,500		3,100	
Stand-by mode	[W]	1,020		1,710		1,300		1,900		2,000	
Airflow rate											
Airflow rate at 100kPa static pressure	[m³/h]	650		1,300		622		650		1,300	
Weight											
Condenser without electric stand-by	[kg]	34		40		30		36		36	
Condenser with electric stand-by	[kg]	70		78		56		72		72	
Evaporator	[kg]	9		18		10.2		10.5		19.6	
Road compressor											
Displacement	[cc]	146		163		131		131		146	

These products contain fluorinated greenhouse gases (R134a GWP=1,430 / R452A GWP=2,140,5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC

Zero Direct-Drive Multi-Temp

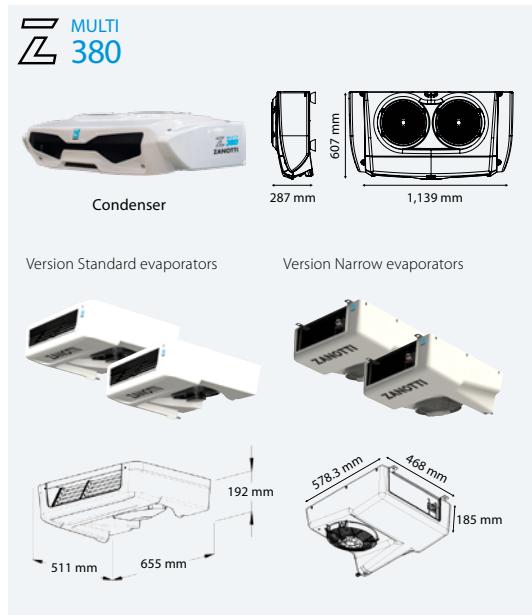
Z380 Multi

Z380 Multi and Z380 Multi (Narrow Evap) models are designed to meet the modern needs of low environmental impact refrigeration for light commercial vehicles. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available in multiple configurations to adapt to a wide range of applications.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- Multiple temperature zones in the same vehicle
- Proven reliability and performance
- Powered by direct-drive on engine, electric stand-by
- Easy to install and service with removable side panels
- Configurable for a wide range of refrigerated applications in light commercial vehicles
- Low noise
- User-friendly cabin driver interface
- Reduced refrigerant charge and maintenance costs
- Telematics-compatible
- 2-year standard warranty



	Z380 Multi	Z380 Multi (Narrow Evap)			
General					
Refrigerant	[•]	R452A			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	3,265	1,655	3,250	1,310
Stand-by mode	[W]	2,030	640	2,420	1,030
Heating capacity					
Road mode	[W]	3,010	2,630		
Stand-by mode	[W]	1,770	1,520		
Airflow rate					
Airflow rate at 100kPa static pressure	[m³/h]	2x 620	2x 830		
Weight					
Condenser without electric stand-by	[kg]	42	42		
Condenser with electric stand-by	[kg]	80	80		
Evaporator	[kg]	2x 10.2	2x 16		
Road compressor					
Displacement	[cc]	146	146		

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC

Van Electric





Invisible Electric

SFZ008e | SFZ009e | SFZ009e Multi

The Invisible Electric range is designed for discreet and efficient transportation of refrigerated products in vans on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making the Invisible Electric an ideal choice for full-electric, hybrid, or conventional vehicles.

These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. SFZ009e offers varying refrigeration capacities and volume ratings tuned for different applications. SFZ009e Multi features dual evaporators to enable products with different temperature requirements to be transported in two separate zones.

The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout the trip.

Key Features:

- Zero emissions
- Powered by reliable battery-inverter pack on road, chargeable on electric grid
- Compatible with full-electric, hybrid or conventional vehicles
- Multiple temperature zones in the same vehicle (Multi model only)
- Vehicle access to tight underground areas
- Under-chassis mounting preserves vehicle aesthetics and aerodynamics
- Invisible from the outside
- Low noise
- User-friendly cabin driver interface
- Telematics-compatible
- 2-year standard warranty



	SFZ008e	SFZ009e	SFZ009e Multi
General			
Refrigerant	[·]	R452A	
System net cooling capacity under ATP conditions (30°C ambient temperature)			
Battery mode	[W]	1,300 700 2,200	1,124 1,760 970
Heating capacity			
Battery mode	[W]	1,380	1,650
Airflow rate			
Airflow rate at 100kPa static pressure	[m³/h]	786	1,062
			2x 620
Weight			
Condenser with electric stand-by	[kg]	65	75
Evaporator	[kg]	14	20.5
Max current			
	[A]	119	165
			170

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC

Provisional engineering data

Zero Electric

Z120b

Z120b is powered by the vehicle battery, with minimal environmental impact and maximum cooling effectiveness ideal for refrigerated transport in vans. The unit can be installed quickly without any mechanical couplings with the vehicle engine, which also minimises power draw and thus emissions.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.



Key Features:

- Low emissions
- Proven reliability and performance
- Powered by vehicle battery or engine, electric stand-by
- Compatible with full-electric, hybrid or conventional vehicles
- Easy to install and service with removable side panels
- Low noise
- User-friendly cabin driver interface
- Reduced refrigerant charge and maintenance costs
- Telematics-compatible
- 2-year standard warranty, extendable up to 5 years

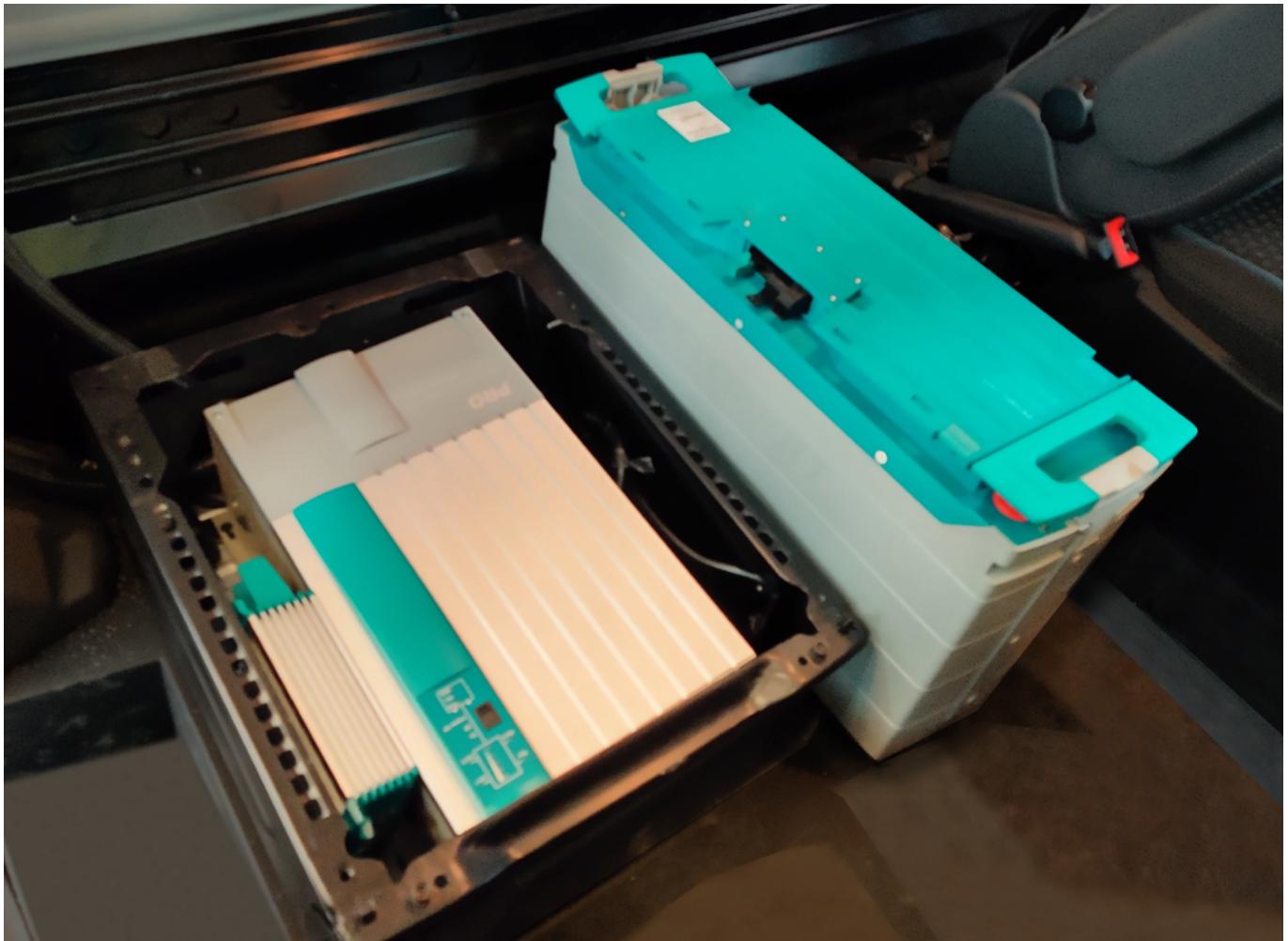


Z120b				
General				
Refrigerant	[•]	R452A		R134A
System net cooling capacity under ATP conditions (30°C ambient temperature)				
Battery mode	[W]	0°C 1,200	-20°C 560	0°C 780
Standby mode	[W]	1,300	570	750
Heating capacity				
Battery mode	[W]	1,100		N/A
Airflow rate				
Airflow rate at 100kPa static pressure	[m³/h]	560		560
Weight				
Condenser with electric stand-by	[kg]	47		47
Evaporator	[kg]	10.2		10.2
Max current				
	[A]	75		55

This product contains fluorinated greenhouse gases (R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC



Electric Power Supply

Our power supply packages are designed to match our Invisible Electric and Zero Electric ranges, providing a high level of reliability and customization for the specific vehicle and application needs.

The power supply can be configured as one or two DC lithium-ion batteries, each providing 1.25 to 6kW up to 12kW total; and comes with a robust inverter battery charger.



Key Features:

- Zero emissions
- Zero maintenance
- Automotive-grade design with high reliability
- Long life with 3,500 cycles
- Fast charging
- 230VAC power for charging and stand-by operation
- Bluetooth connection with smartphone app
- Compatible with telematics, for remote battery monitoring
- Optional connection to vehicle DC battery for supplementary power supply
- Optional auxiliary input for external power supply



Battery Charger
Z120b only



Inverter Battery Charger
SFZ009e / Z200e / Z250e /
Z350e / Z350e Multi



Zero Electric

Z200e | Z250e | Z350e | Z350e Multi

The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. Zero Electric is designed to meet a wide range of applications in light commercial vehicles on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making Zero Electric an ideal choice for full-electric, hybrid, or conventional vehicles.

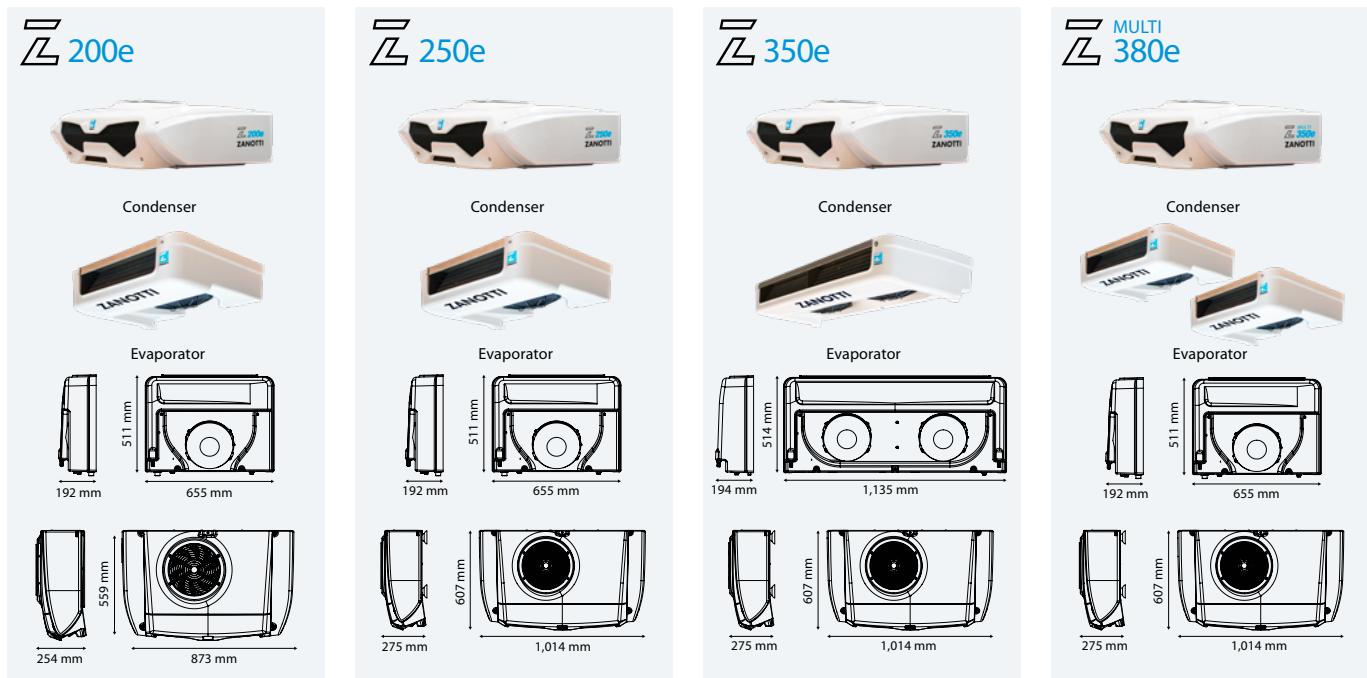
Z200e, Z250e and Z350e offer varying refrigeration capacities and volume ratings tuned for different applications. Z350e Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones.

All Zero models provide easy installation and serviceability. The condensing unit can be installed as top-mount on the roof of the box or nose-mount on the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- Zero emissions
- Powered by reliable battery-inverter pack on road, chargeable on electric grid
- Compatible with full-electric, hybrid or conventional vehicles
- Multiple temperature zones in the same vehicle (Multi model only)
- Proven reliability and performance
- Easy to install and service with removable side panels
- Low noise
- Configurable for a wide range of refrigerated applications in light commercial vehicles
- User-friendly cabin driver interface
- Reduced refrigerant charge and maintenance costs
- Telematics-compatible
- 2-year standard warranty





	Z200e	Z250e	Z350e	Z350e Multi
General				
Refrigerant	[·]		R452A	
System net cooling capacity under ATP conditions (30°C ambient temperature)				
Battery mode	[W]	1,495	695	1,735
				955
				1,880
				1,045
				1,940
				830
Heating capacity				
Battery mode	[W]	1,200	1,500	1,650
				1,600
Airflow rate				
Airflow rate at 100kPa static pressure	[m³/h]	620	650	1,300
				2x 620
Weight				
Condenser with electric stand-by	[kg]	54	70	70
Evaporator	[kg]	10.2	10.5	19.6
				2x 10.2
Max current				
	[A]	100	159	166
				171

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC



Light Truck





SFZ

SFZ238 | SFZ248

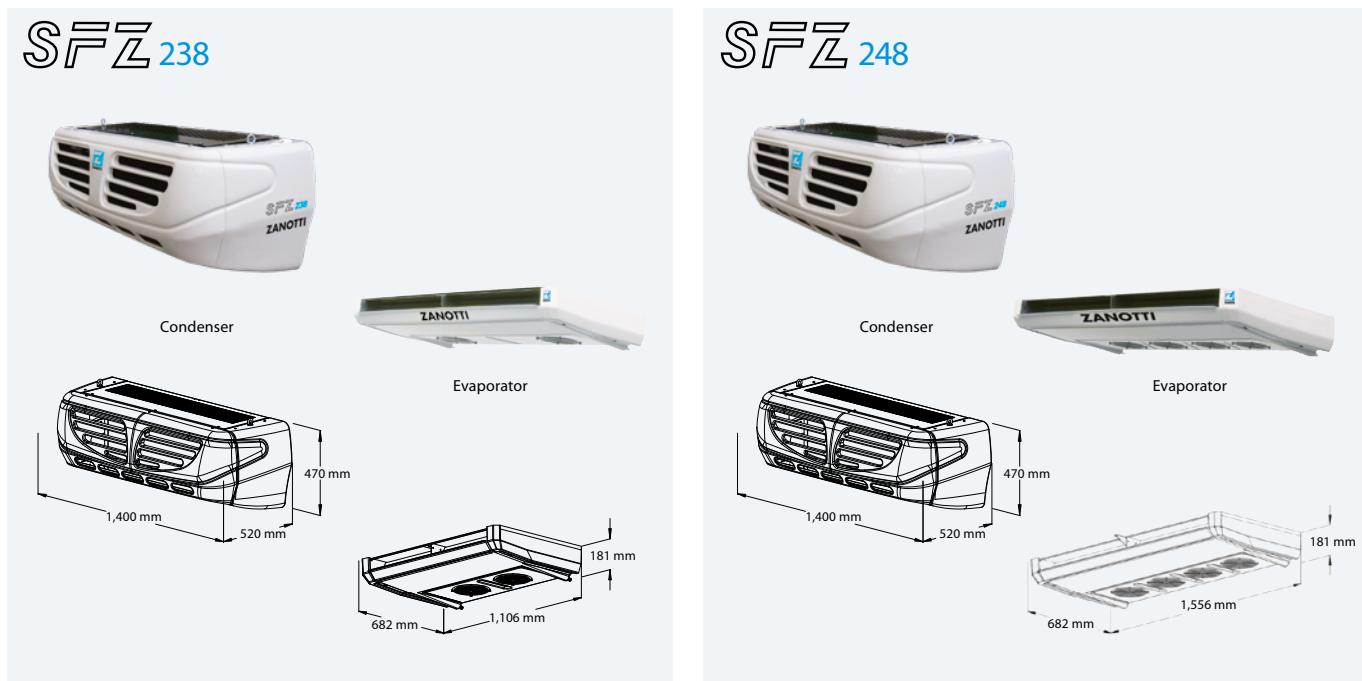
SFZ is a robust direct-drive solution for refrigerated transport on light to medium trucks. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium sized boxes.

SFZ238 and SFZ248 are designed as nose-mount, installed on the front wall of the box, with multiple configurations of evaporators and fans to meet the requirements of a wide range of vehicle types and applications. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- Proven reliability and performance
- Powered by direct-drive on engine, electric stand-by
- Easy to install and service, light weight
- Low noise
- Configurable for a wide range of refrigerated applications in light to medium trucks
- User-friendly cabin driver interface
- Telematics-compatible
- 2-year standard warranty





	SFZ238	SFZ248
General		
Refrigerant	[•]	R452A
System net cooling capacity under ATP conditions (30°C ambient temperature)		
Road mode	[W]	4,700
Stand-by mode	[W]	3,830
Heating capacity		
Road mode	[W]	3,990
Stand-by mode	[W]	3,310
Airflow rate		
Airflow rate at 100kPa static pressure	[m³/h]	1,670
		3,340
Weight		
Condenser without electric stand-by	[kg]	70
Condenser with electric stand-by	[kg]	128
Evaporator	[kg]	26.5
Road compressor		
Displacement	[cc]	163
		215

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC

SFZ Multi-Temp

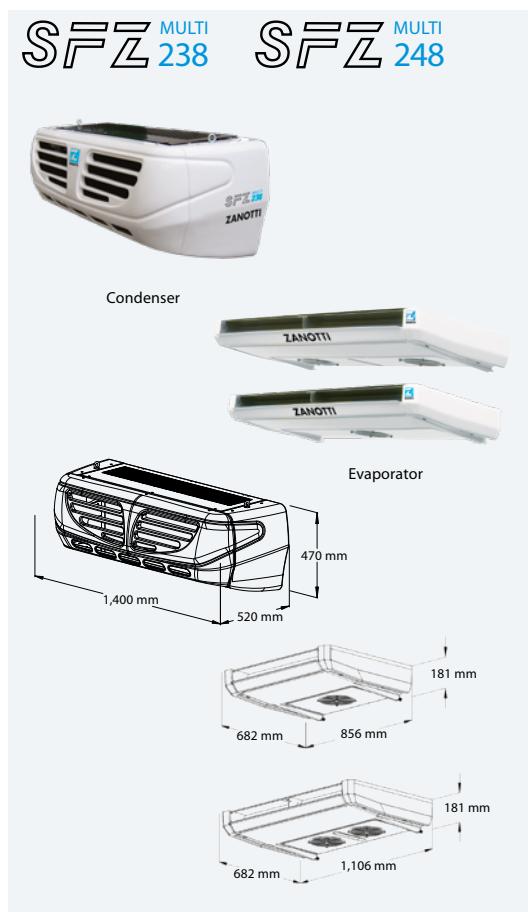
SFZ238 Multi | SFZ248 Multi

Our SFZ Multi-Temp range is designed to meet the modern needs of refrigeration for light to medium trucks. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available in multiple configurations to adapt to a wide range of applications. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium-sized boxes.

SFZ238 Multi and SFZ248 Multi are designed as nose-mount, installed on the front wall of the box. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- Multiple temperature zones in the same vehicle
- Proven reliability and performance
- Powered by direct-drive on engine, electric stand-by
- Easy to install and service, lightweight
- Low noise
- Configurable for a wide range of refrigerated applications in light to medium trucks
- User-friendly cabin driver interface
- Telematics-compatible
- 2-year standard warranty



	SFZ238 Multi	SFZ248 Multi			
General					
Refrigerant	[•]	R452A			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	4,240	2,135	5,080	2,560
Stand-by mode	[W]	3,570	1,635	4,130	2,020
Heating capacity					
Road mode	[W]	3,850	4,430		
Stand-by mode	[W]	3,230	3,610		
Airflow rate					
Airflow rate at 100kPa static pressure	[m³/h]	2x 835	2x 1,670		
Weight					
Condenser without electric stand-by	[kg]	70	77		
Condenser with electric stand-by	[kg]	128	143		
Evaporator	[kg]	2x	2x		
Road compressor					
Displacement	[cc]	163	215		

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC

Truck





Uno

U600 | U800 | U1000

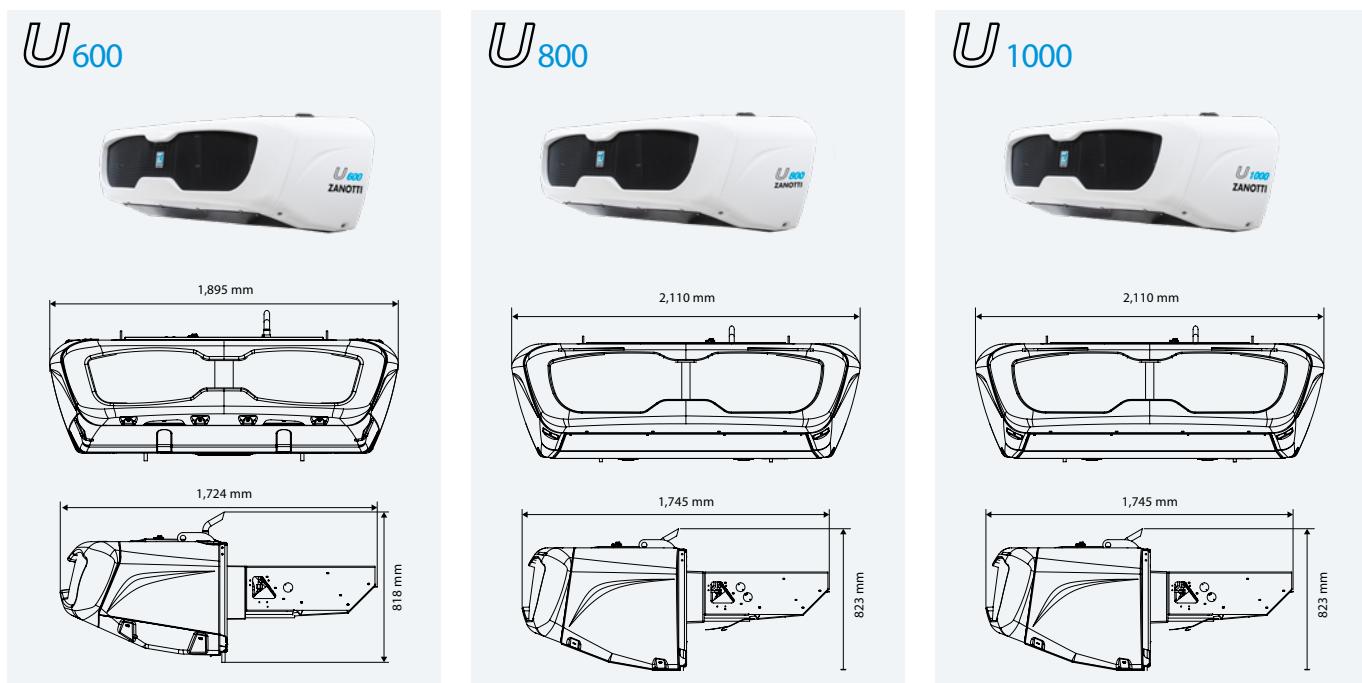
The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor, and utilize Daikin's expertise in design for reliability and performance. Their high cooling performance, energy efficiency and extended maintenance intervals minimise the total cost of ownership, while meeting the most stringent emission, material waste, and noise pollution regulations.

U600, U800, and U1000 are designed as nose-mount, installed on the front wall of the box. The electronics enabled advanced diagnostics. A robust interface in the cabin can be installed in the vehicle DIN slot or mounted on the dash, allowing real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- Designed for high reliability with a custom Yanmar engine
- Innovative powertrain design enabling high performance and energy efficiency
- Reduced fuel consumption and noise
- Extended maintenance intervals
- 2-year standard warranty





	U600	U800	U1000				
General							
Refrigerant	[·]	R452A					
Defrost	[·]	Hot gas defrost					
System net cooling capacity under ATP conditions (30°C ambient temperature)							
	[°C]	0°C	-20°C	0°C	-20°C	0°C	-20°C
Road mode	[W]	6,200	3,200	8,600	4,700	10,000	5,700
Stand-by mode	[W]	3,700	1,700	6,500	3,500	8,300	4,500
Heating capacity							
Road mode	[W]	5,400		7,500		8,700	
Stand-by mode	[W]	3,200		5,700		7,200	
Airflow rate							
Airflow rate at 100kPa static pressure	[m³/h]	1,500		2,200		2,500	
Air Throw	[m]	6.5		7.5		8.5	
Weight							
Monoblock road and stand-by	[kg]	485		500		549	
Monoblock road-only	[kg]	435		455		504	
Diesel engine							
Displacement	[cc]	854		1,116		1,116	
Rated power output	[kW]	11.5		15.1		15.1	
Maintenance interval	[hrs]	2,000		2,000		2,000	
Road compressor							
Displacement	[cc]	235		325		390	
Stand-by compressor							
Displacement	[m³/h]	11.3		14.4		21.4	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 400/3/50



Uno

U800 Multi | U1000 Multi

The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor, and utilise Daikin's expertise in design for reliability and performance. Their high cooling performance, energy efficiency and extended maintenance intervals minimise the total cost of ownership, while meeting the most stringent emission, material waste, and noise pollution regulations.

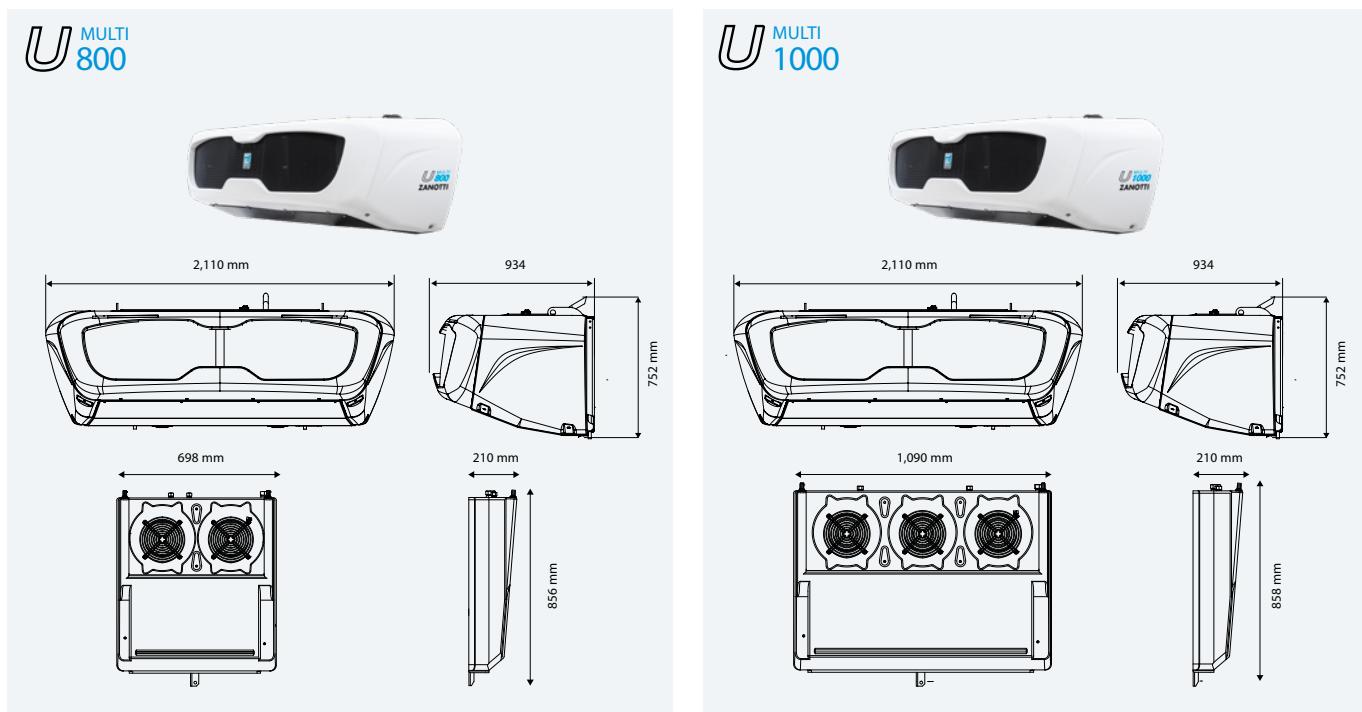
U800 Multi and U1000 Multi are designed as nose-mount, installed on the front wall of the box, with multiple configurations of evaporators and fans to meet the requirements of a wide range of vehicle types and applications. The electronics enabled advanced diagnostics. A robust interface in the cabin can be installed in the vehicle DIN slot or mounted on the dash, allowing real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- Multiple temperature zones in the same vehicle
- Designed for high reliability with a custom Yanmar engine
- Innovative powertrain design enabling high performance and energy efficiency
- Reduced fuel consumption and noise
- Extended maintenance intervals
- 2-year standard warranty, extendable up to 5 years

The all-new Uno cabin controller is modern technology in a robust build.





	U800 Multi	U1000 Multi			
General					
Refrigerant	[·]	R452A			
Defrost	[·]	Hot gas defrost			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	7,970	4,140	9,800	5,400
Stand-by mode	[W]	6,050	3,075	8,700	4,500
Heating capacity					
Road mode	[W]	7,300		8,500	
Stand-by mode	[W]	4,900		7,600	
Airflow rate					
Airflow rate at 100kPa static pressure	[m³/h]	2x 1,680		2x 2,520	
Air Throw	[m]	7.5		8.5	
Weight					
Split road and stand-by	[kg]	500		505	
Monoblock road-only	[kg]	460		465	
Evaporator	[kg]	35x2		40x2	
Diesel engine					
Displacement	[cc]	1,116		1,116	
Rated power output	[kW]	13.2		13.2	
Maintenance interval	[hrs]	2,000		2,000	
Road compressor					
Displacement	[cc]	325		390	
Stand-by compressor					
Displacement	[m³/h]	14.4		21.4	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-by voltages available: 400/3/50

Uno Undermount

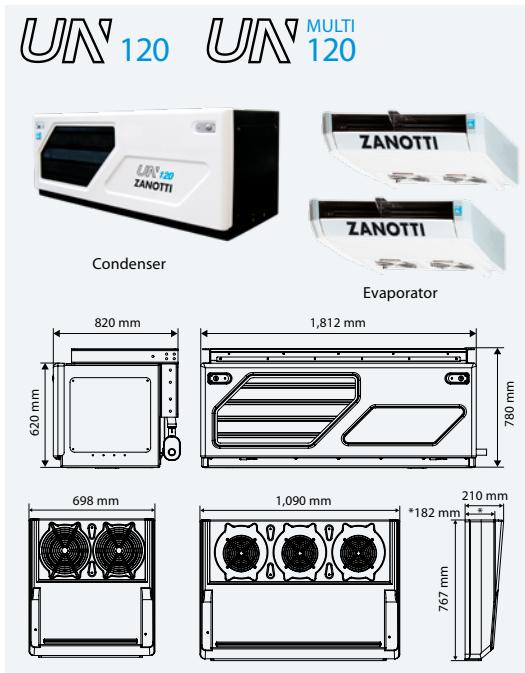
UN120 | UN120 Multi

Uno Undermount models are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in heavy trucks. The units feature Zanotti's innovative direct coupling design between the engine and the compressor.

UN120 and UN120 Multi are undermount units designed to be installed under the box. UN120 Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones. A driver-friendly interface in the cabin enables them to monitor and modify performance to ensure it is kept at precisely the right temperature throughout the trip.

Key Features:

- Multiple temperature zones in the same vehicle (Multi model only)
- Designed for high reliability with a custom Yanmar engine
- Innovative powertrain design enabling high performance and energy efficiency
- Reduced fuel consumption and noise
- 2-year standard warranty



	UN120	UN120 Multi			
General					
Refrigerant	[·]	R452A			
Defrost	[·]	Hot gas defrost			
System net cooling capacity under ATP conditions (30°C ambient temperature)					
	[°C]	0°C	-20°C	0°C	-20°C
Road mode	[W]	11,500	6,200	10,600	5,700
Stand-by mode	[W]	8,200	4,200	7,500	3,900
Heating capacity					
Road mode	[W]	10,000		9,500	
Stand-by mode	[W]	7,100		6,700	
Airflow rate					
Airflow rate at 100kPa static pressure	[m³/h]	4,500		2x 2,520	
Air Throw	[m]	> 8.5		> 8.5	
Weight					
Condensing unit road and stand-by	[kg]	510		510	
Condensing unit road-only	[kg]	475		475	
Evaporators	[kg]	40		40x2	
Diesel engine					
Displacement	[cc]	1,116		1,116	
Rated power output	[kW]	13.2		13.2	
Maintenance interval	[hrs]	2,000		2,000	
Road compressor					
Displacement	[cc]	390		390	
Stand-by compressor					
Displacement	[m³/h]	21.4		21.4	

These products contain fluorinated greenhouse gases (R452A GWP=2,140.5).
Stand-By voltages available: 400/3/50

Provisional engineering data

Trailer





Exigo

E1500

Daikin Exigo is the new benchmark in trailer refrigeration – built for the needs of today, and the challenges of tomorrow.

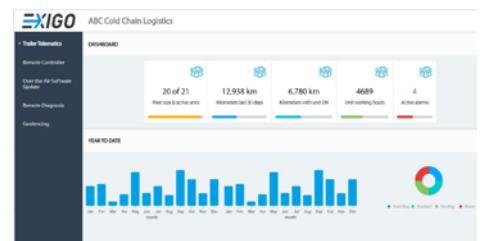
Every aspect of Exigo has been designed to provide high performance, energy-efficient and reliable transport of refrigerated cargo. It is the next generation in trailer refrigeration, being engine-powered, and compatible with battery technologies.

Key Features:

- Unique electric architecture with Daikin inverter technology providing 15kW true capacity both on engine and electric power
- Variable-speed compressor and fans for maximum pull-down performance and energy efficiency
- Reduced maintenance downtime with industry leading service intervals (3,000 hours as standard)
- Low noise as standard
- Ease of unit operation with high resolution graphical user interface
- Daikin components with proven reliability and a lightweight design
- GDP-compliant, supporting cold chain integrity of pharmaceuticals and medicinal products
- Telematics with 2-year subscription included as standard
- EMEA sales and service network backed by Daikin



High resolution graphical user interface



Advanced telematics included as standard



INVERTER

Reduced average power consumption

Non-Inverter

Higher average power consumption
Unnecessary compressor start-stop increases power consumption



Specifications		E1500
Cooling capacity 30/0°C - Engine & Electric	[W]	14,900
Cooling capacity 30/-20°C - Engine & Electric	[W]	9,200
Heating capacity -20/+2°C - Engine & Electric	[W]	10,500
Air Flow rate evaporator at max pulldown	[m³/h]	5,500
Air throw	[m]	15
Engine		Kubota Custom Diesel Engine 1,500 cc / 4 Cylinders NRMM Stage V Compliant
Generator		15kW / 400V 3P 50Hz / Direct Drive
Compressor		Custom scroll compressor economizer inverter Variable speed
Variable speed components		Compressor Evaporator fans Condenser Fans
Controller		Daikin PCB
User interface		7" High Resolution LCD
Temperature zones		Single
Refrigerant		R-452A
Total net weight	[kg]	730
Unit Dimensions WxHxD	[mm]	2,072x2,227x440
Connectivity		Telematics as Standard with 2-Year Subscription Included
Pharma		Certicold GDP certification
Power supply		
Voltage	[V]	400
Phase		3P+N
Frequency	[Hz]	50

Exigo Accessories

Solar Panel

Key Features:

- Extends Exigo 12V battery life and efficiency
- Improves fuel efficiency by charging the 12V battery
- Keeps telematics active during long standby



Specifications	Solar Panel	
Power	[W]	138
Weight	[Kg]	1.8
Length	[mm]	1,363
Width	[mm]	546
Thickness	[mm]	2

Datalogger

Key Features:

- Enables independent cold chain monitoring
- Includes 2 temperature sensors extendable to 6
- Includes integrated printer



Exigo Service Offerings

Telematics

Real time management of your fleet is part of Exigo's standard offering, as the unit comes with 2-year telematics included as standard. Our platform provides a comprehensive set of features developed together with fleet managers, and ensures continuous improvement of your Exigo units with the over the air updates.

Features

- Real-time GPS tracking
- Intuitive geolocator interface based on Google Maps
- Real-time monitoring of setpoint, cargo area and outside temperature
- Temperature setpoint management with two-way communication
- Unit status monitoring including engine information
- Operational and location alarms, with push notifications
- Reports of events, alarms, and usage statistics
- Virtual HMI with full control
- Over-the-air software update
- Accessible via computer, tablet or smartphone
- 4G LTE connectivity, all Europe roaming
- Integration with your existing fleet management software
- Usage data provided to Daikin for product improvement purposes



Planned Maintenance

Daikin planned maintenance contract makes sure your unit is always in top operational condition through our authorized service network, maximizing the value of your investment.

Features

- Execution of planned maintenance per Exigo user manual
- No additional charge, including parts and labor
- No payments or paperwork needed for the intervention
- Unit service history digitally available to all authorized service partners across Europe
- By appointment, can be performed by any authorized service partner across Europe

24/7 Breakdown Support

Daikin provides peace of mind across Europe by a 24/7 support line, in order to resolve emergency breakdowns with minimum hassle. Our support specialists will arrange everything from locating the nearest service location to handling payments on behalf of the customer.

Features

- One phone number across Europe:  +3259552477
- Available in 9 languages, for the convenience of fleet managers and drivers: English (default), Dutch, French, German, Italian, Polish, Romanian, Spanish and Turkish
- Support specialists will arrange locating the nearest available service workshop
- Unit service history available to support specialists
- Support specialists will arrange communication of the technical issue with the service workshop, breaking the language barrier
- No payment or paperwork for issues covered under warranty or extended warranty

Exigo Service Contracts	0 - 2 Years	3+ Years
Warranty	Included	Optional Extended Warranty (Requires Telematics and Maintenance Plan)
Telematics	Included	Optional
Planned Maintenance	Optional	Optional
24/7 Breakdown Support	Optional	Optional

Extended Warranty

Protect your asset beyond the standard 2-year warranty, with Daikin's extended warranty contract.

Features

- Every Exigo is already covered under 2-year warranty including parts and labor
- Extended warranty extend the parts and labor coverage to 3 years and beyond
- No payments or paperwork needed for the intervention
- Unit service history digitally available to all authorized service partners across Europe
- Can be performed by any authorized service partner across Europe

Service Network



Our continuously growing European service network, extending to over 300 authorized service partners, enabled by Daikin to provide repair and maintenance services for our van, truck, and trailer units. Our service partners always apply our genuine spare parts, engineered to ensure maximum performance and reliability. Utilising the authorized service partners and genuine parts is the only way to protect your investment under Daikin warranty and minimise total cost of ownership.

