



Mini-ZEAS
condensing
unit
LRLEQ-BY1



Inverter



Scroll compressor

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

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Low Temperature Refrigeration				LRLEQ-BY1	3	4
Capacity range				HP	3	4
Refrigerating capacity	Low temperature	Nom.		kW	2.78 (1)	3.62 (1)
Power input	Low temperature	Nom.		kW	2.60 (1)	3.41 (1)
Capacity control	Method			Inverter controlled		
COP	Low temperature	Nom.			1.07 (1)	1.06 (1)
Seasonal energy performance ratio SEPR	R-410A	Te -35°C			1.74	1.68
Annual electricity consumption Q	R-410A	Te -35°C		kWh/a	11,920	16,048
Parameters at full load and ambient temp. 32°C	R-410A	Te -35°C		Rated COP (COPA)	1.07	1.06
Parameters at part load and ambient temp. 25°C	R-410A	Te -35°C		Declared COP (COPB)	1.26	1.23
Parameters at full load and ambient temp. 43°C	R-410A	Te -35°C		Declared COP (COP3)	0.59	0.66
Dimensions	Unit	Height	mm	1,345		
		Width	mm	900		
		Depth	mm	320		
Weight	Unit			kg	130	
Heat exchanger	Type			Cross fin coil		
Compressor	Type			Hermetically sealed scroll compressor		
	Frequency ON/OFF			Less than 6 times/hour		
	Starting method			Direct on line (inverter driven)		
Fan	Type			Propeller		
	Quantity			2		
Fan motor	Air flow rate	Cooling	Nom.	m ³ /min	106	
	Output			W	70	
	Drive			Direct drive		
Sound pressure level	Nom.			dB(A)	51.0 (2)	
Operation range	Evaporating temperature	Min.		°C	-45 (2)	
		Max.		°C	-20	
	Ambient temperature	Min.~Max.		°CDB	-20~43	
Refrigerant	Type			R-410A		
	GWP			2,087.5		
	Charge			kg	6.90	
	TCO ₂ eq			14.4		
	Control			Electronic expansion valve		
	Circuits		Quantity	1		
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415	
Cooling	Degradation coefficient for fixed and staged capacity units				0.25	
Connectable capacity	Minimum			%	50	
	Maximum			%	100	

(1) Cooling: evaporating temp. -35°C; outdoor temp. 32°C; suction SH10°C

(2) Sound pressure data: measured at 1m in front of unit, at 1.5m height

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