



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

LRLEQ-BY1



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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 (Point A)	R-410A	Te -35°C	Rated COP (COPA)		1.07	1.06
Parameters at part load and ambient temp. 25°C (Point B)	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	
	Air flow rate	Cooling	Nom.	m³/min	106	
Fan motor	Output			W	70	
	Drive				Direct drive	
Sound pressure level	Nom.			dBA	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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