

# Mini-ZEAS condensing unit for commercial refrigeration with scroll technology

LRMEQ-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

# LRMEQ-BY1



LRMEQ-BY1

Medium Temperature Refrigeration				LRMEQ-BY1	3	4
Refrigerating capacity	Medium temperature Nom.				5.90 (1)	8.40 (1)
Power input	Medium temperature Nom.				2.53 (1)	3.65 (1)
Seasonal energy performance ratio SEPR	R-410A	Te -10°C			4.17	4.08
Annual electricity consumption Q	R-410A	Te -10°C			8,698	12,651
Parameters at full load and ambient temp. 32°C (Point A)	R-410A	Te -10°C	Rated COP (COPA)		2.33	2.30
Parameters at full load and ambient temp. 43°C	R-410A	Te -10°C	Declared COP (COP3)		1.51	1.48
Dimensions	Unit	Height	mm		1,345	
		Width	mm		900	
		Depth	mm		320	
Weight	Unit		kg		126	
Heat exchanger	Type				Cross fin coil	
Compressor	Type				Hermetically sealed scroll compressor	
	Frequency ON/OFF Starting method				Less than 6 times/hour Direct on line (inverter driven)	
Fan	Type				Propeller	
	Quantity				2	
Fan motor	Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	106	
	Output			W	70	
Sound pressure level	Drive				Direct drive	
	Nom.			dB(A)	51 (2)	
Operation range	Evaporating temperature	Min.		°C	-20 (3)	
		Max.		°C	5	
	Ambient temperature	Min.~Max.		°CDB	-20~43	
Refrigerant	Type				R-410A	
	GWP				2,087.5	
	Charge			kg	4.50	
				TCO <sub>2</sub> eq	9.39	
	Control				Electronic expansion valve	
Power supply	Phase/Frequency/Voltage	Quantity			3N~/50/380-415	

(1) Cooling: evaporating temp. -10°C; outdoor temp. 32°C; suction SH10°C

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

(3) Contains fluorinated greenhouse gases

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