

CO₂ ZEAS refrigeration condensing unit

LREN-A



CO₂ ZEAS **INVERTER**



Inverter



Swing compressor

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



CO2 ZEAS

Low Temperature Refrigeration, Medium Temperature Refrigeration, Heat Recovery				LREN	8AY1	10AY1	12AY1	12AY1 +LRNUN5AY1
Refrigerating capacity	Low	Nom.		kW	11.2 (1)	13.5 (1)	15.5 (1)	17.3 (1)
	Medium	Nom.		kW	19.8 (2)	23.1 (2)	26.3 (2)	31.7(2)
Power input	Low	Nom.		kW	11.6 (1)	14.1 (1)	16.9 (1)	18.6 (1)
	Medium	Nom.		kW	10.7 (2)	13.2 (2)	15.5 (2)	20.1 (2)
COP	Medium	Nom.			1.86 (2)	1.75 (2)	1.69 (2)	1.58 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	1,680 x1,930 x765			
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.			dB(A)	61.0 (4)	62.0 (4)	64.0 (4)	65.0 (4)
	Low noise mode 1			dB(A)	59.0 (4)	59.0 (4)	61.0 (4)	
	Low noise mode 2			dB(A)	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 (CO2)/1.0			
	Charge			kg	0.00 (5)			
	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) Sound pressure data: measured at 1m in front of unit, at 1.5m height. Nominal operation condition – Medium evaporation temperature (MT) |

(5) The unit is not pre-charged. A minimal rest charge is present related to factory quality inspection |

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: 2Y190CPCY1P#C; Compressor 2: 2Y190CPCY1P#C; Compressor 3: 2Y190CPDY1P#C |

Only K65 (or equivalent) with D.P. 90 bar is allowed to use for refrigeration piping. |

For all the LRNUN5A7Y1 specifications, please refer to the related MDM drawing

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