

Technical Specification

ISD506-14 DCEX60/12SWR8-225-L5D - SS/FRH/CB/I2/HG/P



APPLICATION	PRODUCT TYPE	CALCULATION DATE		DUTY MODE
CO2 Direct Expansion	Arctigo ISD (2022 version)	20.06.2025		RATING
LABEL	PROJECT/QUOTE	POSITION	REF.CUSTOMER	QTY
				1
Thermal Data^{(5), (14), (15)}				
Calculated Capacity	73.05 kW	Sensible Heat Ratio		0.74
Condensate	26.4 kg/h	Evaporating Temperature		-10.0 °C
DTM	6.4 Δ°C	Ref Temperature Liquid		5.0 °C
Air Data				
Air Temperature ON/OFF	-2.0 °C / -5.3 °C	Air Flow	49600 m³/h	
Air ON/OFF Relative humidity	85.0 % / 94.0 %	Air Velocity	3.3 m/s	
DT1 (AirOnTemp-EvapTemp)	8.0 Δ°C	Air Throw	55 m	
Fluid				
Fluid	R744 (CO2)			
Fan Data⁽¹⁶⁾				
Fan Type	AC	Number of fans	6	
Fan Diameter	500 mm	Rotation Speed	1300 rpm	
ErP 2015	Yes	External Pressure	0 Pa	
Electrical Fan Data				
Power Supply	400V / Three / 50 Hz / D	Tot. Nom. Power	4620 W	
Min/Max Work. Temp.	-40.0 °C / 70.0 °C	Tot. Nom. Current ⁽³⁾	10.2 A	
Full Load Current	12.2 A			
Sound Level				
Sound Power Level	89 dB(A)	Sound Pressure Level ⁽¹⁾	65 dB(A)	
Coil Data				
Tube Material	Copper	Fin Material	Sea water resistant (AlMg)	
Fin Spacing	8.0 mm	Connections Size (In-Out)	28mm - 42mm	
Internal Volume	67.7 l	Surface	465.1 m²	
Design Pressure	60 bar	Connection Side	Left	
Casing&Frame				
Casing Material	Stainless Steel	Frame Material	Stainless Steel	
Dimensions⁽²⁾				
LengthXDepthXHeight	6811 mm / 958 mm / 774 mm	Unit Weight	847 kg	
Shipping Volume	12 m³			
Options				
Fan ring heater	6 x 225 W			

SUMMARY	
DESCRIPTION	Kit CODE
Fan - AC - 1340 rpm - 400V - 50 Hz	
Fin pack - Sea water resistant (AlMg)	
Casing Material - Stainless Steel	
Fan ring heater	
Cabling Cover	
Connection Box - Terminal box	
Insulated Drip Tray - 12 mm Insulation + cladding I2	
Defrost System - Hot-Gas HG	
Packing - Pallet	

NOTES

¹By using EN13487 at 3 m in free field conditions, if distance is not specified differently from user. ²Dimensions and weight are not valid for all available options. Drawings are only preliminary, indicative and without accessories. ³Total nominal current at Tair=20°C (68°F). Variation could occur due to different voltage or air temperature. ⁴LU-VE S.p.A. reserves the right to modify and correct at any time, with or without notice, the specifications and prices listed in the software. Options not specified in the "Value Summary" table are not included in the offer. ⁵General conditions of sales available on www.luvegroup.com. ⁶LU-VE ventilated products comply with European Directives PED 2014/68/EU, LVD 2014/35/EU, EMC 2014/30/EU and are classified as Partly Completed Machinery as per MD 2006/42/EC Annex II.B, therefore not CE marked. Furthermore, ventilated products are not intended for use in potentially explosive atmosphere or with refrigerants not approved by the manufacturer. ¹⁶The unit is delivered with standard painted fan grid. For stainless steel fan grid please specify to your LU-VE sales contact. Price and delivery time will change accordingly.

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