

Technical Specification
CDEH302CS AL 7.0 CU - E/BOP



APPLICATION	PRODUCT TYPE	CALCULATION DATE	DUTY MODE
Direct Expansion	PHASE OUT - Optigo CD	08.12.2025	DESIGN
LABEL	PROJECT/QUOTE	POSITION	REF.CUSTOMER
CDEH302 CS 230V BOP PCE AL 7.0 CU	48917168		
		QTY	
		1	



WARNINGS: There are warnings related to this unit. See below for more information.

Thermal Data^{(5), (14), (15)}

Required Capacity	2,50 kW	Calculated Capacity	2,45 kW
Margin	-2,1 %	Sensible Heat Ratio	0,72
Condensate	1,0 kg/h	Evaporating Temperature	-8,0 °C
DTM	6,9 Δ°C	Temperature Type	DEW
Ref Temperature Liquid	30,0 °C		

Air Data

Air Temperature ON/OFF	0,0 °C / -2,3 °C	Air Flow	2127 m³/h
Air ON/OFF Relative humidity	85,0 % / 92,0 %	Air Velocity	2,2 m/s
DT1 (AirOnTemp-Evap.Temp.)	8,0 Δ°C	Air Throw	2×7 m

Fluid

Fluid	R404A
-------	-------

Fan Data

Fan Type	AC	Number of fans	2
Fan Diameter	300 mm	Rotation Speed	1320 rpm
ErP 2015	Yes		

Electrical Fan Data

Power Supply	230V / S / 50 Hz / S	Total Nominal Power	144 W
Min/Max Work. Temp.	-31,0 °C / 50,0 °C	Total Nominal Current ⁽³⁾	0,6 A
Full Load Current	0,8 A		

Sound Level

Sound Power Level	66 dB(A)	Sound Pressure Level ⁽⁴⁾	44 dB(A)
-------------------	----------	-------------------------------------	----------

Coil Data

Tube Material	Copper	Fin Material	Aluminium
Fin Spacing	7,0 mm	Connections Size (In-Out)	16mm - 22mm
Number Of Circuits	2×8	Surface	12,6 m²
Internal Volume	4,0 l	Connection Side	Same
Design Pressure	40 bar	Tube Pattern	TRIANGULAR
Test Pressure	57 bar		

Casing&Frame

Casing Material	Powder Coated	Frame Material	Standard
-----------------	---------------	----------------	----------

Dimensions⁽²⁾

LengthXDepthXHeight	1480 mm / 985 mm / 0 mm	Unit Weight	39 kg
Shipping Volume	1 m³		

Electrical Defrost Consumption

No of heater drip tray	2	Drip tray power consumption	1600 W
------------------------	---	-----------------------------	--------

Configuration IDs

Coil Configuration	AL/7.0/16mm-22mm/S
Fan Configuration	FA38/S
Options Configuration	E/BOP

SUMMARY

DESCRIPTION	Kit CODE
Unit	
Fan - AC - 1320 rpm - 230V - 50 Hz	
Fin pack - Aluminium	
Defrost System - Electrical	
Packing - Carton box+pallet	

WARNINGS

ERROR: Pressure drop too low in DX calculation, oil may not recirculate. WARNING: Pressure drop out of range in DX application. WARNING: Vapour velocity in the tubes too low. WARNING: Connection velocity below min limit.

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.

Calculation Engines
Item ID

AirThinker - 1.0.7.156 HSP - 0.1.1.31.p
49570596

