

Technical Specification

FMDE 2227 AL - E/BO



APPLICATION HFC Direct Expansion	PRODUCT TYPE Optigo FMD	CALCULATION DATE 08.12.2025	DUTY MODE RATING
LABEL FMDEL 2227 AE/E/BO	PROJECT/QUOTE 48917168	POSITION REF.CUSTOMER	QTY 1



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

Calculated Capacity	4,59 kW	Sensible Heat Ratio	0,75
Condensate	1,6 kg/h	Evaporating Temperature	-8,0 °C
DTM	6,2 Δ°C	Temperature Type	DEW
Ref Temperature Liquid	30,0 °C		

Air Data

Air Temperature ON/OFF	0,0 °C / -3,3 °C	Air Flow	3100 m³/h
Air ON/OFF Relative humidity	85,0 % / 93,5 %	Air Velocity	1,8 m/s
DT1 (AirOnTemp-Evap.Temp.)	8,0 Δ°C	Air Throw	11 m

Fluid

Fluid	R404A
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Fan Data⁽⁶⁾

Fan Type	EC	Number of fans	2
Fan Diameter	350 mm	Rotation Speed	870 rpm
ErP 2015	Yes	Max Rpm	870 rpm

Electrical Fan Data

Power Supply	230V / S / 50 Hz / S	Total Nominal Power	170 W
Min/Max Work. Temp.	-25,0 °C / 60,0 °C	Total Nominal Current ⁽³⁾	1,5 A
Full Load Current	1,8 A	Fans Oper. power cons.	84 W
Fans Operating current	0,8 A		

Sound Level

Sound Power Level	66 dB(A)	Sound Pressure Level ⁽¹⁾	45 dB(A)
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Coil Data

Tube Material	Copper	Fin Material	Aluminium
Fin Spacing	7,0 mm	Connections Size (In-Out)	1x16mm-1x35mm
Number Of Circuits	8	Surface	17,5 m²
Internal Volume	4,2 l	Connection Side	Same
Design Pressure	24 bar	Tube Pattern	TRIANGULAR

Casing&Frame

Casing Material	Aluminum alloy epoxy coated RAL9003
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Dimensions⁽²⁾

LengthXDepthXHeight	1443 mm / 886 mm / 263 mm	Unit Weight	38 kg
Shipping Volume	0 m³		

Electrical Defrost Consumption⁽⁷⁾

No of heater drip tray	2	Drip tray power consumption	3200 W
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Configuration IDs

Coil Configuration	AL/7.0/1x16mm-1x35mm/S
Fan Configuration	32009489/S
Options Configuration	E/BO

SUMMARY

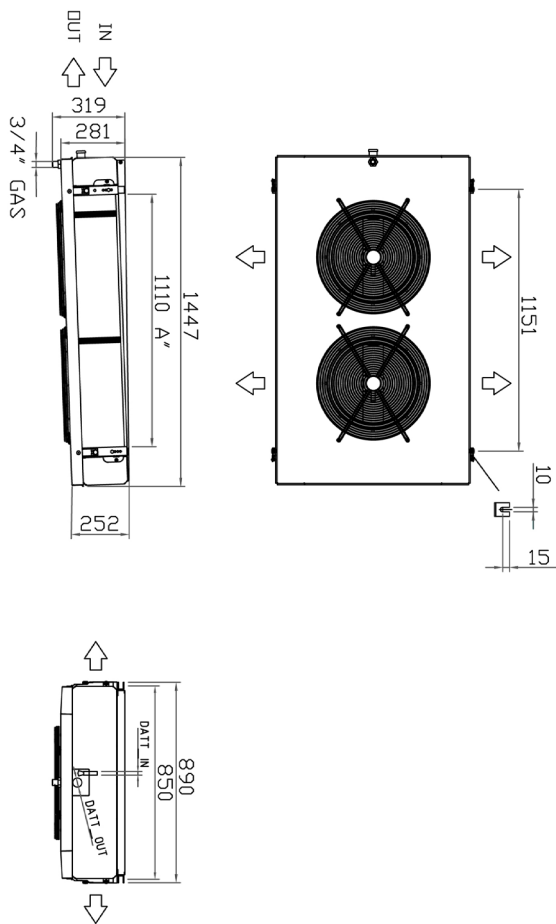
DESCRIPTION	Kit Code
Unit	
Fan - EC - 870 rpm - 230V - 50 Hz	
Fin pack - Aluminium	
Casing Material - Aluminum alloy epoxy coated RAL9003	
Wiring Config Type	
Defrost System - Electrical	
Packing - Box	

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. ⁵The connection box is included. ⁶Standard power supply: 230V/1ph. ⁷General conditions of sales available on www.luvegroup.com. ⁸LU-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

HSP - 0.1.1.31.p LuveCalc - 1.0.8.102
49570596



Boite 09-07-20	
Scale 1:1	Type: FMD 22
	