


# Technical Specification

## F27MCEA-22-7 AL - E+HD



APPLICATION	PRODUCT TYPE	CALCULATION DATE	DUTY MODE
HFC Direct Expansion	Optigo FMC	19.01.2024	DESIGN
LABEL			
DESIGN-DX-R452A-AC-[7.0]-[]-AL-49328647			

### Thermal Data<sup>(5), (14), (15)</sup>

Required Capacity	3.00 kW	Calculated Capacity	3.24 kW
Margin	8.0 %	Sensible Heat Ratio	0.91
Condensate	0.4 kg/h	Evaporating Temperature	-30.0 °C
DTM	8.2 Δ°C	Temperature Type	DEW
Ref Temperature Liquid	30.0 °C		

### Air Data

Air Temperature ON/OFF	-20.0 °C / -23.3 °C	Air Flow	2000 m <sup>3</sup> /h
Air ON/OFF Relative humidity	85.0 % / 90.6 %	Air Velocity	2.4 m/s
DT1 (AirOnTemp-EvapTemp)	10.0 Δ°C	Air Throw	14 m

### Fluid

Fluid	R452A
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### Fan Data

Fan Type	AC	Number of fans	2
Fan Diameter	275 mm	Rotation Speed	1450 rpm
ErP 2015	Yes		

### Electrical Fan Data

Power Supply	230V / Single / 50 Hz / S	Tot. Nom. Power	170 W
Min/Max Work. Temp.	-40.0 °C / 40.0 °C	Tot. Nom. Current <sup>(3)</sup>	1.2 A
Full Load Current	1.5 A		

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## Sound Level

Sound Power Level	65 dB(A)	Sound Pressure Level <sup>(1)</sup>	44 dB(A)
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## Coil Data

Tube Material	Copper	Fin Material	Aluminium
Fin Spacing	7.0 mm	Connections Size (In-Out)	1x12mm-1x28mm
Number Of Circuits	4	Surface	9.8 m²
Internal Volume	2.3 l	Connection Side	Same
Design Pressure	24 bar		

## Casing&Frame

Casing Material	Galvanized Steel Painted RAL9003
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## Dimensions<sup>(2)</sup>

LengthXDepthXHeight	1050 mm / 365 mm / 461 mm	Unit Weight	19 kg
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## Electrical Defrost Consumption

No of heater coil	2	No of heater drip tray	1
Coil power consumption	2160 W	Drip tray power consumption	350 W

## Configuration IDs

Coil Configuration	AL/7.0/1x12mm-1x28mm/S
Fan Configuration	30087240A/S
Options Configuration	E+HD

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## SUMMARY

### DESCRIPTION

### KIT CODE

Unit

Fan - AC - 1450 rpm - 230V - 50 Hz

Fin pack - Aluminium - 7.0 mm

Casing Material - Galvanized Steel Painted RAL9003

Wiring Config Type

Defrost System - Electrical+Heater drip tray E+HD

## NOTES

- 1 By using EN13487 at 3 m in free field conditions, if distance is not specified differently from user.
- 2 Dimensions and weight are not valid for all available options. Drawings are only preliminary, indicative and without accessories.
- 3 Total nominal current at Tair=20°C ( 68°F). Variation could occur due to different voltage or air temperature.
- 5 LU-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.
- 14 General conditions of sales available on [www.luvegroup.com](http://www.luvegroup.com).
- 15 LU-VE products are designed, manufactured and tested according to PED 2014/68/EU, MD 2006/42/EC, LVD 2014/35/EU, EMC 2014/30/EU and their related harmonized standards.

### Calculation Engines

**HSP - 0.1.1.23 LuveCalc - 1.0.7.79**

### Item ID

49328647

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