



INDICATIVE PRODUCT IMAGE

Needed Data for selection

Ambient Temp.	32 °C
Evaporating Temp.	-30 °C
Requested capacity	10000 W

Search results

Total capacity	9578 W
Tolerance	-4.2 %

Product file

Code	HDL245X13082
Range	MHX
Application	LBP
Noise	42.1 dBA 10 m
PED	2
Condensation	Air
Expansion	Valve
Net weight	585 kg
Refrigerant	R744

Dimensions

Width L	1920 mm
Depth P	860 mm
Height H	1660 mm

Pipe fittings

Liquid diam.	10 - 1/2" K65
Suction diam.	17.2 - 5/8" K65

Absorptions

Power consumption	7750 W
Current consumption	13.31 A

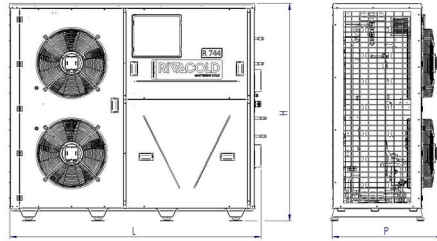
Condenser

Fan-motors no.	2
Diameter	450 mm
Air flow	8184 m³/h

Compressor

Type	Semiermetico bistadio
Code	CD2S550
Compressors no.	1
Brand	DORIN
Voltage	380-420/3/50
Displaced volume	4.60 + 3.20 m³/h
Displacement	5.5 cm³

Technical data - HDL245X13082



Refrigerating capacity table (W) - HDL245X13082 - Refrigerant: R744

TA \ TE	-35 °C		-30 °C		-25 °C	
	Min.	Max.	Min.	Max.	Min.	Max.
32 °C	3925	7850	4790	9578	5733	11464
35 °C	3939	7877	4796	9591	5715	11431
38 °C	3947 ⁽¹⁾	7895 ⁽¹⁾	4785	9570	5674	11348
43 °C	3918 ⁽¹⁾	7836 ⁽¹⁾	4713	9427	5537	11075

(1) Gas cooler maximum working pressure 99bar

Values referred to :

Gas cooler approach: Ambient temperature function

Gas cooler Pressure: Ambient temperature function

Receiver Intermediate Pressure: 45bar

Subcooling : 5K

MT Useful superheat 10K

Condensing Unit absorption :

Te -30°C (LBP); Tamb 35°C



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General features

R744 booster system for Low Temperature

Design pressures: (TB)

- 60 bar on LT suction line
- MT Suction, Liquid Line and Intermediate Pressure - Liquid Receiver 80 bar
- 120 bar on MT high pressure side

Mechanical features

- Double Stage semi-hermetic piston compressor Dorin
- Inverter on lead compressor for LT application
- Oil separator with an integrated reservoir
- Electronic oil level control on compressor with possibility of analysis and change of parameters setting
- On Board Gas Cooler
- Model fitted with 1 or 2 fan-motors of Ø 450mm or Ø 500mm, EC fan
- Mid-pressure insulated receiver with safety valve, with gas inlet, outlet and flash gas
- Drier filter with service valve and sight glass
- Suction filter and service shut-off valve
- Insulation of pipework (suction, cold liquid pipes and all cold parts)
- Continuous back pressure electronic valve HPV
- LT Suction gas heating / liquid sub-cooler heat exchanger
- Flash gas electronic valve for pressure maintenance of the mid-pressure receiver
- Piping outlet with possibility of welding or brazing K65

Control circuits

- Safety high pressure switches on each compressor in conformity with PED directive
- Temperature and pressure probes for controlling and monitoring the system
- Discharge and suction temperature monitoring for the general safety of the system

Electrical Circuit

- Built-in electrical panel
- Magneto-thermic switches for powered components and auxiliaries
- Numbered terminal boards and colouration of cables in conformity with CEI EN 60204-1
- Micro-processor electronic control
- Control and alarm management on all parts of the circuit
- Pre-setting for system monitoring

Separate Supplied Materials

- POE85 Oil

Standard frame

- Self-baring frame made of steel
- Housing with panels for internal inspection
- Epoxy powder finish on all metal sheets
- Control and power electrical panel made of strong metal sheet with a double closing door
- Standard package: wooden pallet

Options

- Liquid level alarm
- Preset electronic control supplied separately
- Standard soundproofing
- Soundproofing plus