SELECT 3.0

Unitacondcar

INDICATIVE PRODUCT IMAGE

Needed Data for selection

Ambient Temp.	32 °C
Evaporating Temp.	-30 °C
Requested capacity	2000 W

Search results

Total capacity	2231 W
Tolerance	11.6 %

Product file

Code	HDL145X14022
Range	MHX
Application	LBP
Noise	36 dBA 10 m
PED	2
Condensation	Air
Expansion	Valve
Net weight	450 kg
Refrigerant	R744

Dimensions

Width L	1920 mm
Depth P	860 mm
Height H	1310 mm

Pipe fittings

Liquid diam.	6 - 1/4" K65
Suction diam.	8 - 3/8" K65

Absorptions

Power consumption	2170 W
Current consumption	4.41 A

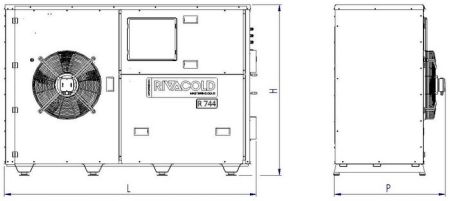
Condenser

Fan-motors no.	1
Diameter	450 mm
Air flow	4219 m³/h

Compressor

Type	Semiermetico bistadio
Code	CD2S300
Compressors no.	1
Brand	DORIN
Voltage	380-420/3/50
Displaced volume	1.45 + 0.57 m³/h
Displacement	3 cm³

Technical data - HDL145X14022



Refrigerating capacity table (W) - HDL145X14022 - Refrigerant: R744

TA \ TE	-35 °C		-30 °C		-25 °C	
	Min.	Max.	Min.	Max.	Min.	Max.
32 °C	941	1882	1116	2231	1293	2586
35 °C	916	1832	1086	2173	1255	2511
38 °C	883 (1)	1766 (1)	1051	2101	1212	2425
43 °C	810 (1)	1620 (1)	974	1948	-	-

(1) Gas cooler maximum working pressure 99bar

Values refered 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

INDICATIVE PRODUCT IMAGE

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 analisys 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 fliter 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
- Pipings 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 ispection
- 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