RIVACOLD MASTERING COLD

SELECT 3.0

Centralifrigo

INDICATIVE PRODUCT IMAGE

Needed Data for selection

Ambient Temp.	32 °C
Evaporating Temp.	-10 °C
Requested capacity	18640 W

Search results

Total capacity	19620 W
Tolerance	5.3 %

Product file

Code	H2DM245X11092
Range	MH2X
Net weight	690 kg
Refrigerant	R744
Application	MBP
Noise	39.5 dBA 10 m
PED	3

Dimensions

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

Built-in condenser

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

Pipe fittings

Liquid diam.	17.2 - 5/8" K65
Suction diam.	17.2 - 5/8" K65
Liquid receiver	35 l

Absorptions

Power consumption	12700 W
Current consumption	24.9 A

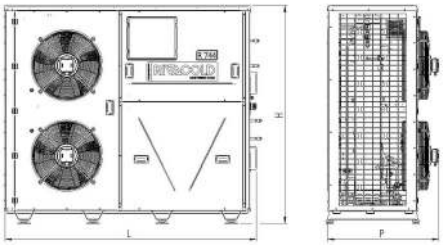
Compressore 1

Type	Semi-hermetic
Code	CD4 75-4.7H (INVERTER)
Compressors no.	1
Brand	DORIN
Voltage	380-420/3/50
Displaced volume	4.67 m³/h
Displacement	7.5 cm³

Compressore 2

Type	Semi-hermetic
Code	CD4 75-4.7H
Compressors no.	1
Brand	DORIN
Voltage	380-420/3/50
Displaced volume	4.67 m³/h
Displacement	7.5 cm³

Technical data - H2DM245X11092



Refrigerating capacity table (W) - H2DM245X11092 - Refrigerant: R744

TA \ TE	-15 °C		-10 °C		-5 °C	
	Min.	Max.	Min.	Max.	Min.	Max.
32 °C	4790	16540	5780	19620	6860	22880
35 °C	4390	15440	5310	18370	6310	21490
38 °C	4040	14450	4900	17240	5840	20220
43 °C	3350	12100	4120	14190	4980	16400

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 -10°C (MBP); Tamb 35°C

INDICATIVE PRODUCT IMAGE

General features

R744 transcritical system for medium temperature applications (TS)

Design pressures: (TS)
- 60 bar on MT suction line
- 80 bar on midpressure receiver
- 120 bar on MT high pressure side

Mechanical features
- Dorin Semi-hermetic piston compressors
- Inverter on lead compressor for MT application
- Oil separator with an integrated reservoir
- Electronic oil level controls on compressors with possibility of analisys and change of parameters setting
- On Board Curved Gas Cooler
- Model fitted with 2 fan-motors of Ø 450mm or Ø 500mm, EC fans
- 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
- Flash gas mix suction MT and liquid subcooler 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
- Remote heat recovery for ambient heating with automatic 3-ways valve for by-pass (Heat Reclaim)
- Preset electronic control supplied separately
- Standard soundproofing
- Soundproofing plus