

MANUAL

COLD HOT CLIMATIC CHAMBER
1,725 m³ -55°C / +100°C



Order No. : 4074
Date : 15/10/2007
Servathin ref. : 53726000010010
Delivery date :
Guarantee : 12 months

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DATE	10/04/08				
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9. SPECIFICATIONS

Useful internal dimensions (mm)

Width	Depth	Height
1500	1150	1300

For a useful volume of : 1.725 m³.

Minimum insulation thickness : 150 mm

Main circuit (MC1F):

R23 motor-compressor power : 6.4kVA
 Accessible hermetic type compressor : 4FC 3.2Y

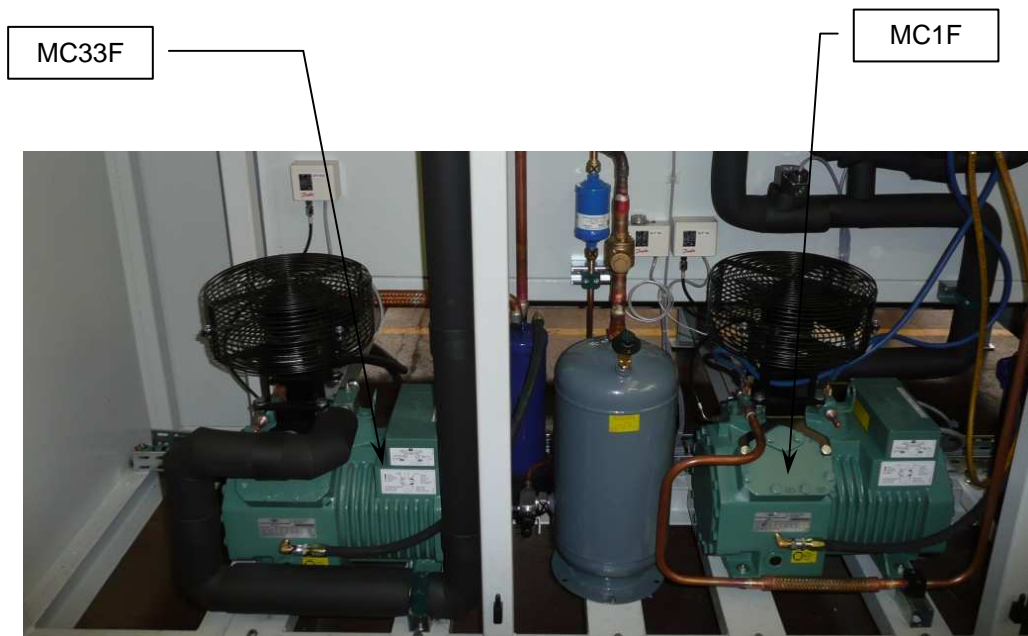
Auxiliary circuit (MC33F):

R404A motor-compressor power : 11 kVA
 Accessible hermetic type compressor : 4CC 6.2Y

Condensation by air unit

Heating power : 9 x 1.5 kW (i.e.: 13.5 kW)

Ventilation power : 2 x 0.75 kW (i.e.: 1.5 kW)



10. PERFORMANCE

The performance is stated for:

An ambient temperature of between +10°C and +35°C

A constituted load of : 750 kg of aluminium

A thermal load : 0W

10.1. TEMPERATURE

Temperature range : -55°C to +100°C

Cooling rate : Higher than 0.4°C/min. average +100 °C to -55 °C

Heating rate : Higher than 0.4°C/min. average -55 °C to +100°C

Temperature stability : $\leq \pm 0.5^\circ\text{C}$

Temperature homogeneity : 2°C to 10 cm of walls without charge and dissipation.

Precision of controlling $\pm 0,2^\circ\text{C}$

According to the norm NFX15 140

10.2. AIR FAN SPEED

Air fan speed maxi : 3,5 m/s average

Air fan speed mini : 0,5 m/s average

11. SUPPLY

Dimensions (mm) without condenser air

Width	Depth	Height
2630	2010	2870

Electricity

Supply voltage: 400 V triphase + N + G / 60Hz

Total power consumption: 30 kVA

Supply voltage: 400V / 50Hz

Close to the installation, the user should ensure that the connection has the protection (here, 80 A gL, with quick-blow fuse) and the cable diameter suited to the machine's power consumption.

Refrigerant and refrigerant oil

	Refrigerant fluid		Oil	
	Nature	Load	Nature	Load
Main circuit	R23	Pressure (when stopped): 12 bar at 20°C	EMKARATE RL32CF	Approx. 2 l
Auxiliary circuit	R404A	Approximately 4 kg	EMKARATE RL32CF	Approx. 2 l

Evacuation of condensates

The condensates produced in the evaporator and the refrigeration machinery are evacuated by the force of gravity (via the bung-hole in the chamber), passing through the 12 mm-diameter outside tube.

Weight

Approximately 2,500 kg