R407c REFRIGERANT

Unit suitable to be equipped with compressors acoustical enclosure.

APPLIED SYSTEM

ME

1303 - 3606

UNIT DESCRIPTION

This series works with **refrigerant R407c.** This is a refrigerant fluid which ensures certain advantages from the ecological point of view as it does not contain chlorine and has a very low O.D.P. value. Compared with other chiller systems, the possibility offered by the ME series is to split the condensing part, normally air-cooled, from the evaporating part. It is a series of large-size units that are very well suited to civil air conditioning plants in particular, as the ME unit can be installed in a restricted space and connected to the externally positioned condenser section. This system layout also means that noise levels can be kept down. It is also useful should water shortages arise, as it can be used to replace existing water/water units without the need for modifications to the user's system, since all that is required for this changeover is the connection of the freon circuit and electrical supply to the remote condenser.

STANDARD UNIT COMPOSITION

– Supporting structure made of galvanized epoxy powder coated steel with high tickness.
– Reciprocating semi-hermetic compressors with discharge valves.
– Thermally insulated shell and tube type evaporator.
– Liquid receiver complete with stopvalve.
– Expansion valves. Dryer filters. Sight glass.
– Microprocessor control system.
– Expansion valves. Dryer filters. Sight glass.
– Electrical power and control panel complying with EN 60204-1/IEC 204-1 standards and interlock door mains isolator.
– Microprocessor control system.
– Non-freezing oil charge.
– Refrigerant charge.
– General testing and operational test carried out in the factory in accordance with European Standard EN 12055.

IQNet CERTIFIED QUALITY SYSTEM

CE

ICIM ISO 9001 - Cert. n° 0035

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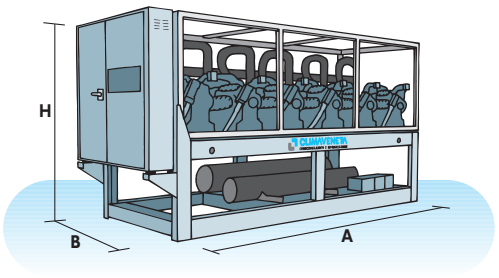
GENERAL TECHNICAL DATA

R407c

MODELS			1303	1403	1503	1603	1703	1803	2004	2204	2404	2606	2806	3006	3206	3406	3606
ME																	
Cooling capacity	①	kW	354	371	388	416	440	463	525	584	632	712	748	778	835	887	935
Power input	①	kW	83	87	91	98	104	111	122	135	148	168	175	182	196	208	221
Remote condenser heat	①	kW	437	458	479	514	544	574	647	719	780	880	923	960	1031	1095	1156
LIQUID RECEIVER																	
Liquid receiver capacity		n°x lt	3x22	3x22	3x22	3x22	3x22	3x22	2x40	2x40	3x40	3x40	3x40	3x40	3x40	3x40	3x40
OPERATING WEIGHT																	
ME		Kg.	2470	2610	2750	2770	3020	3050	3470	3670	3770	3940	4180	4430	4765	4970	5070
DIMENSIONS																	
A	②	mm	2850	2850	2850	2850	3525	3525	3525	3525	3525	4105	4105	4105	4305	4305	4305
B	②	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1450	1450	1450	1450	1450	1450
H		mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	2000	2000	2000	2000	2000	2000



① **Data referred to:**
Chilled water 12/7 °C
Condensing temperature +47 °C

② **Free areas required:**
Evaporate water connection side 500/620 mm
Compressor discharge connections side 500/2200 mm
Opposite side to compressor discharge connections 500 mm
Electrical panel side 500/1000 mm

MAIN FUNCTIONS OF THE CVM CONTROLS

	3000	3000	
Voltage and frequency supply control	•	•	Compressor start per hour and restarting time control
Missing external consens led signal	•	•	Compressor working-hours control and display
Remote on/off by external volt-free contact	•	•	Compressor working hours balance system
Cumulative fault warning alarm	•	•	Part-winding compressor start
Evaporator inlet/outlet water temperature display	•	•	Pump-down when stopped
Compressor/circuit failure signal	•	•	Pump-down on starting
Unit general-alarm signal	•	•	Led display of interface board correct operation
Print-out of the temperature and pressure values (if any)	•	•	Auto-diagnostic of the electrical part
Configuration parameters print-out	•	Par.	CVM-Master connection
Historical alarms and events memory and print-out	200	Par.	CVM-Interface connection
Propor. regulating algorithm on the inlet water temp.	•	Par.	Supervisoring software connection
Proportional+Integral regulating algorithm	Par.	Opt.	Landis Staefa comunication gateway
Compressors start sequence at unit start-up	Par.	Par.	Johnson Controls comunication gateway
Real-time internal clock	•	•	Comunication protocol
Programmable timer function	Par.		
Double-set mode connected to programmable timer	Par.		
Delayed compressor start	•		

•: standard
Opt.: available upon request
Par.: available modifying a value of the configuration parameters

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