



Unit suitable to be equipped with compressors acoustical enclosure.



ME

1303 - 3606

UNIT DESCRIPTION

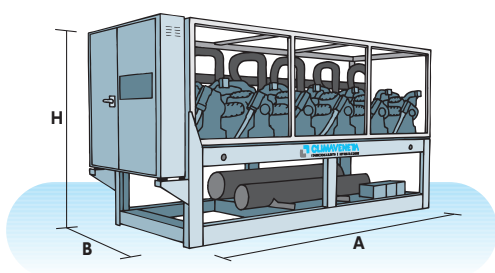
Compared with other chiller systems, the possibility offered by the ME series is to split the condensing part, normally air-cooled, from the evaporating part. It is a series of large-size units that are very well suited to civil air conditioning plants in particular, as the ME unit can be installed in 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 thickness.
- 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.



| MODELS | | 1303 | 1403 | 1503 | 1603 | 1703 | 1803 | 2004 | 2204 | 2404 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|--------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ME | | | | | | | | | | | | | | | | |
| Cooling capacity | ① kW | 381 | 399 | 418 | 447 | 473 | 498 | 564 | 628 | 680 | 765 | 804 | 837 | 898 | 954 | 1005 |
| Power input | ① kW | 83 | 87 | 91 | 98 | 104 | 111 | 122 | 135 | 148 | 168 | 175 | 182 | 196 | 208 | 221 |
| Remote condenser heat | ① kW | 464 | 486 | 509 | 545 | 577 | 609 | 686 | 763 | 828 | 933 | 979 | 1019 | 1094 | 1162 | 1226 |
| LIQUID RECEIVER | | | | | | | | | | | | | | | | |
| Liquid receiver capacity | n°x lt | 3x22 | 3x22 | 3x22 | 3x22 | 3x22 | 3x22 | 2x40 | 2x40 | 2x40 | 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. | Supervising 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