

CM1 Air Cooled Water Chiller Unit



Controlling Environments in Harsh and Marine Areas



HVAC & Refrigeration Engineering Ltd - Products Division
Unit A | Broadfold Road | Bridge of Don | Aberdeen | AB23 8EE
t (+44) 01224 707080 e sales@climarine.com www.climarine.com



CM1 Air Cooled Water Chiller Unit

Introduction

Climarine CM1 Packaged Air Cooled Water Chiller Units are robustly designed and constructed for use in the harsh offshore, marine and petrochemical environment.

Our team of dedicated, highly skilled engineers and technicians use their extensive knowledge, experience and the latest 3D technology to continually develop and update our designs.

Materials and components are selected to provide resistance to corrosion, long service life and optimum reliability along with standardisation of common components across the range to ensure spare parts are always readily available at competitive prices.

System Description

The CM1 Range of Packaged Water Chillers are manufactured to ISO 9001 Standards and designed to meet the demands of today's marine air conditioning and temperature control requirements. The base frame and outer casing are all fabricated from grade 316L Stainless Steel. The compressors, evaporator, line components and controls are enclosed in the lower section behind stainless steel access panels for protection from the elements. The chillers feature an integrated electrical control panel that automatically controls the chiller unit on receiving a start signal from the client's environment control system. Cooling Air is drawn through copper tube/copper fin condenser coils by axial fans and discharged vertically. All units are supplied with lifting eyes and/or forklift pockets for ease of handling during transportation and installation.



Typical Applications

This equipment is suitable for providing climate control in the following typical applications:

- Accommodation Modules
- LER Modules
- SCR Modules
- Transformer Rooms
- Galley Cooling
- VSD Modules

Options

- Range of cooling capacities from 3 to 350kW
- Other Certification may be available
- Notified Body Type Approval
- For hazardous areas units – please refer to our **Hazcool** range of products

CM1 Air Cooled Water Chiller Unit

Standard Specification

Nom Cooling Duty	3kW - 350kW
Nom Heating Duty	3kW - 350kW
Design Point Conditions	35°C
Power Supply	3 phase/ 440V/60hz
Control Panel	Integrated Control Panel
Temperature Control	Electronic Controller with staged control
Casing Material	Stainless Steel
Compressor	Semi hermetic with anti vibration mounts
Condenser Heat Exchanger	Copper tube/Copper fin Coils and Axial Fans
Evaporator Heat Exchanger	Shell & Tube heat exchanger
Pipe Work	Fully Brazed Copper Pipe work
Refrigerant Type	Ozone Friendly R407C (Others available on request)

Documentation

Standard Climarine Documentation Package includes:

Declaration of Conformity
Specification
Operation, Installation & Maintenance Instructions
Spare Parts List
Material Safety Data Sheets
GA & Electrical Diagrams

Testing

All equipment is fully pressure/leak tested prior to dispatch

Client FAT available on request



HVAC & Refrigeration Engineering Ltd
Unit A Broadfold Road
Bridge of Don
Aberdeen
AB23 8EE

t (+44) 01224 707080

e sales@climarine.com

www.climarine.com

