

HZ4 Water Cooled Air Conditioner



Safely Controlling Environments in Hazardous Areas



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HAZCOOL[®]
a division of HVAC & Refrigeration Engineering Limited

HZ4 Water Cooled Air Conditioner

Introduction

Hazcool HZ4 Water Cooled Air Conditioners are designed and constructed for use in the hazardous 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 system is supplied as a 1 piece packaged unit that requires no specialist refrigeration skills to install as there is no external piping required and the unit is pre-charged with refrigerant.

Controls are designed to be easy to operate without the need for complicated programming while still maintaining reliable efficient automatic control of room temperature. Only two client interfaces are required for electrical supply and water connection. Only two client interfaces are required for electrical supply and water connection.

Typical Applications

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

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

Options

- Range of cooling capacities from 3 to 100kW
- Electric heating
- IEC Zone 1/2 Certification
- ATEX Category 2/3 Certification
- Other Certification may be available
- Notified Body Type Approval
- For non-hazardous areas units – please refer to our **climarine** range of products

Standard Specification

ATEX Classification	ATEX Cat 3G, (Zone 2) Group IIB T3
Nom Cooling Duty	3kW - 100kW
Nom Heating Duty	3kW - 100kW
Design Point Conditions	35°C
Power Supply	3 phase/ 440V/60hz
Control Panel	Integrated Control Panel in Flameproof enclosure
Temperature Control	Staged Digital Temperature Controller (Heating and Cooling)
Casing Material	Stainless Steel
Compressor	Semi hermetic ATEX Certified
Condenser Heat Exchanger	Marine Shell & Tube Seawater Condenser Coil
Evaporator Heat Exchanger	Shell & Tube heat exchanger
Pipe Work	Fully Brazed Copper Pipe work
Refrigerant Type	Ozone Friendly R417C (Others available on request)

Documentation

Standard Hazcool 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



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