

HZ1 Air Cooled Water Chiller Unit



Safely Controlling Environments in Hazardous Areas



Unit A | Broadfold Road | Bridge of Don | Aberdeen | AB23 8EE
t 01224 707080 e sales@hazcool.com www.hazcool.com

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

HZ1 Air Cooled Water Chiller Unit

Introduction

Hazcool HZ1 Packaged Air Cooled Water Chiller Units are robustly 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

HazCool Chiller Units are designed and certified to meet ATEX, CAT2/3 or Zone 1/2 standards. The HZ1 unit is a 1 piece packaged design 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.



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
- Electric heating
- IEC Zone 1/2 Certification
- ATEX Category 2 Certification
- Other Certification may be available
- Notified Body Type Approval
- For non-hazardous areas units – please refer to our [climarine](#) range of products

HZ1 Air Cooled Water Chiller Unit

Standard Specification

ATEX Classification	ATEX Cat 3G, (Zone 2) Group IIB T3
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 in Flameproof enclosure
Temperature Control	Electronic Controller with staged control
Casing Material	Stainless Steel
Compressor	Semi hermetic ATEX Certified
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 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



Unit A Broadfold Road
Bridge of Don
Aberdeen
AB23 8EE

t 01224 707080

e sales@hazcool.com

www.hazcool.com

