

HZ8 Air Cooled Condensing Unit



Safely Controlling Environments in Hazardous Areas



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

HZ8 Air Cooled Condensing Unit

Introduction

Hazcool HZ8 Air Cooled Condensing 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

The structure of the unit is fabricated from grade 316 Stainless Steel frame with all compressors, refrigeration components etc. enclosed in the lower section behind stainless steel panels. Condenser cooling air is drawn in through perforated panels, across the flatbed condenser and discharged vertically.

The condensing unit features an integrated ATEX Certified control panel that will automatically run the condensing unit and capacity control on receiving a start signal from the client's temperature controller. Controls are designed to be easy to operate without the need for complicated programming while still maintaining reliable efficient automatic control of room temperature.

Typical Applications

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

- Accommodation Modules
- LER Modules
- SCR Modules
- Switch Rooms
- Transformer Rooms

Options

- Range of cooling capacities from 3 to 300kW
- 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

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Standard Specification

ATEX Classification	ATEX Cat 3G, (Zone 2) Group IIB T3
Nom Cooling Duty	3kW - 300kW
Nom Heating Duty	3kW - 300kW
Design Point Conditions	35°C
Power Supply	460V/3ph/90Hz + Earth
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



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