

HZ10 4 Piece Split Air Conditioning System with capacity control



Safely Controlling Environments in Hazardous Areas



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

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Introduction

Hazcool HZ10 4 Piece Split Air Conditioning Systems 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 system consists of four main parts – 1 x Marine condenser unit ATEX certified for use in a Zone 2 Hazardous Area, 1 x Compressor/Control Enclosure (for use in safe area only) and 2 x indoor evaporator units (for use in safe area only). Interconnecting pipe work and cabling connects each part to form a closed system.

The system can provide individual climate control in two separate rooms via two separate thermostats. A digital scroll compressor provides capacity control for the system from 10 -100% of the duty depending on the conditions.

Typical Applications

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

- Offices
- Workshops
- Analyser Houses
- Accommodation Modules
- ROV Cabins

Options

- Range of cooling capacities from 3 to 12kW
- 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 - 12kW
Nom Heating Duty	3kW - 12kW
Design Point Conditions	35°C
Power Supply	3 phase/ 440V/60hz
Control Panel	Integrated Control Panel in Flameproof enclosure
Temperature Control	Wall Mounted Thermostat
Casing Material	Stainless Steel
Compressor	Digital Hermetic Scroll Compressor
Condenser Heat Exchanger	Copper tube/Copper fin coils and Axial Fans
Evaporator Heat Exchanger	Copper Tube with Aluminium Fins
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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