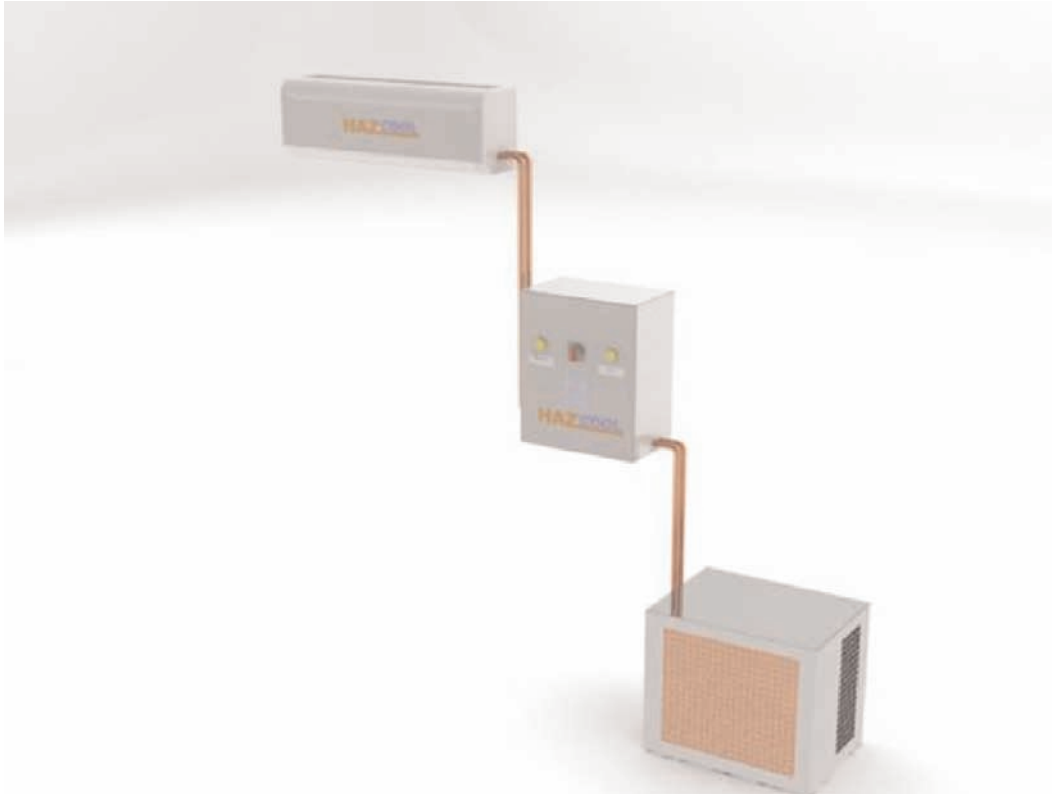


# HZ6 3 Piece Split Air Conditioner



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**<sup>®</sup>  
a division of HVAC & Refrigeration Engineering Limited

## HZ6 3 Piece Split Air Conditioner

### Introduction

Hazcool HZ6 Range of 3 Piece Split Air Conditioners 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 configuration options offer versatility in various module layout designs, where the main parts of the system can be located to suit space requirements and availability of locations for positioning equipment. Controls are designed to be easy to operate without the need for complicated programming while still maintaining reliable efficient automatic control of room temperature.

For systems installed in mobile modules, additional features include power supply incorrect phase sequence protection whereby the 3 phase power supply is monitored. In the event of incorrect phase sequence connection, start up of the system is prevented and a clear indication is provided by a lamp on the control panel fascia.

### Typical Applications

The HZ6 three piece split system range have been installed to provide climate control in the following;

- Drilling Offices
- Control Rooms
- ROV power/control cabins
- Laboratory modules
- MWD/Mud logging units
- Accommodation modules

### 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

## HZ6 3 Piece Split Air Conditioner

### 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	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	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

## HZ6 3 Piece Split Air Conditioner

### Use of Equipment

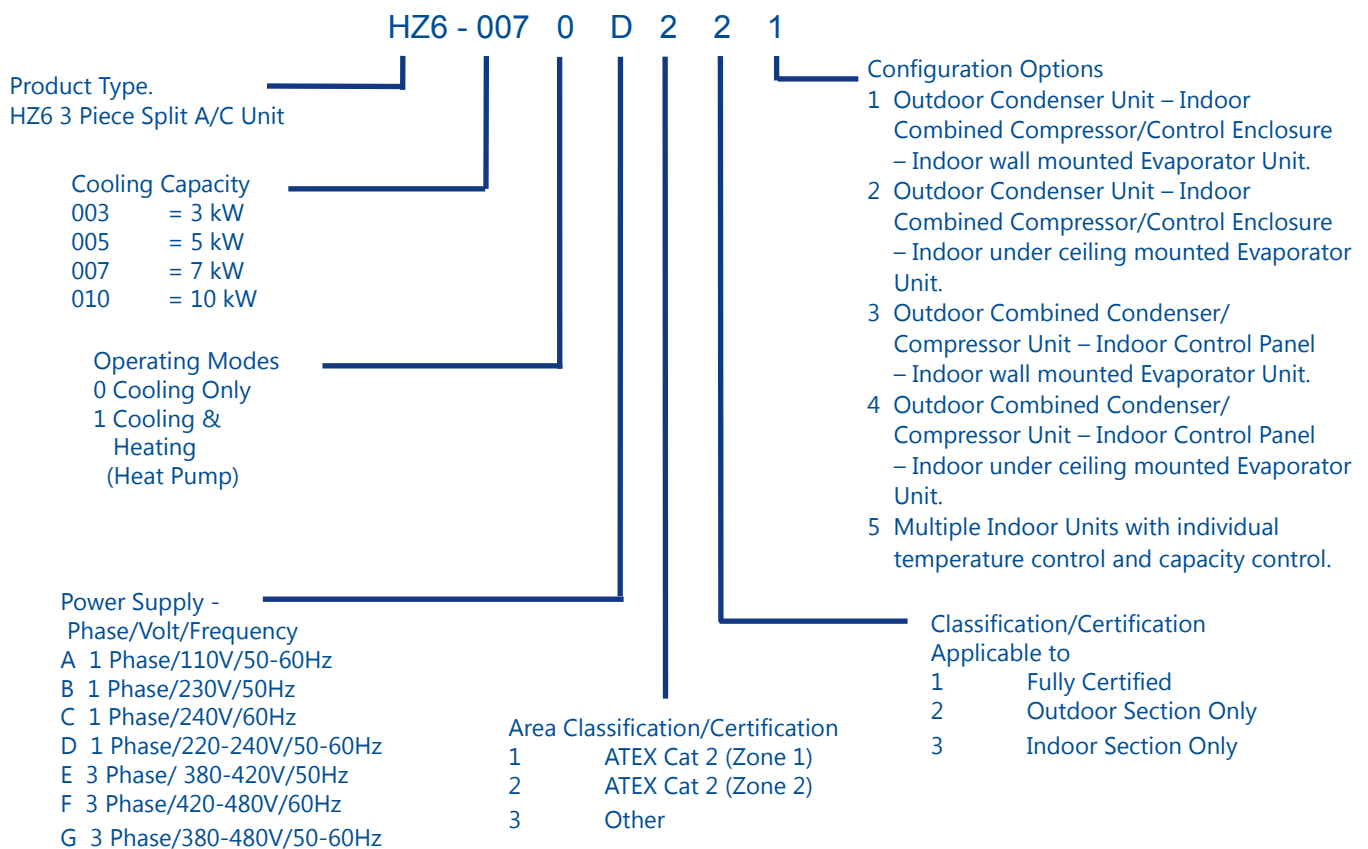
The user is responsible for the choice of the type of equipment put in place. He/she has to take into account the explosion risk area in which the unit will run, checking the classification of the hazardous area and temperature class is suitable.

Equipment for group IIB is also suitable for environments with gasses belonging to group IIA. Equipment certified in T3 class temperature is suitable also for the temperature classes T2 & T1.

### How to Order

#### For example

**A 3 piece split A/C system @ 7kW nominal duty with no heating @ 1 Phase/220-240V/50-60Hz ATEX Certified for use in Zone 2 (outdoor section only) with outdoor condenser unit, indoor compressor/control enclosure and wall mounted evaporator would be as follows;**



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