

Hazardous Area Package Unit HVAC

ATEX & IECEx Certified Air-Cooled HVAC For
Zone 1 Rated Hazardous Gas Environments.



Innovative safety driven IECEx / ATEX certified hazardous area cooling solutions

Hazardous Area Package Unit HVAC



APPLICATIONS

- Analyzer Shelters
- Battery Rooms
- Electrical House (E-House)
- Accommodation Rooms

TYPICAL DESIGN FEATURES

- IECEx or ATEX Zone 1 Group IIB+H2 T3 hazardous areas
- Single overall certificate of conformity
- Wide range of cooling capacities available. Customized design to specification/requirements.
- Designed for tough environments - up to 54°C Amb. Temp. as standard. R134a refrigerant with zero ozone depletion potential
- All-in-one design integrated control enclosure
- Single point power connection
- Available configured for return air with fresh air make-up or 100% fresh air single pass
- Single point power connection

Hazardous Area Package Unit HVAC



TYPICAL CONSTRUCTION FEATURES

- Casing – Galvanised steel powder coated material
- 25mm insulation foil faced in the Evaporator section
- Fully hermetic Ex'd certified compressors for maximum reliability and minimum maintenance
- Non-sparking direct drive condenser and ventilation fans
- Air Cooled Condenser Coil – Cu Tube/Al Fins, with Epoxy treatment providing corrosion protection and long service





OPTIONS

- SS304 or SS316 HVAC casing
- Copper finned refrigeration coils
- Project compliant paint & colours
- Increased IP ratings
- Sand filters, bag filters and chemical filters
- Alternate certification and ambient temperature compliance
- Dual refrigeration circuits with staged compressor operation for capacity control



Hazardous Area Package Unit HVAC

Typical Specifications/Features

Typical Technical Features (Optional Configurations Available)	
Cooling Capacity	Wide range of cooling capacities available and can be custom designed to specification/requirements.
Power Supplies. Nom	380-415V/3Ø/50Hz 440-480V/3Ø/60Hz
Operating Ambient Range. Nom	-20°C to 50°C
Component IP Rating	External IP55 Internal IP54
HVAC Casing Material	Galvanised steel 304 stainless steel 316 stainless steel
HVAC Casing Finish	Polyester powder coat – RAL7032
Fasteners	Stainless steel
Trailer Structural Material	Galvanised steel
Lifting/Handling	Lifting lugs and forklift tine access for sled-type and caster mount type equipment. Standard Tow ball for Trailer type equipment
Refrigerant	R134a
Compressor(s)	Fully hermetic Exd certified scroll compressors Staged operation for capacity control
Refrigerant Controls	Included – integral to package
Refrigeration Coils	Copper tube aluminium fins with epoxy treatment for corrosion protection
Condensate Drip Tray	Stainless steel – includes serviceable P-trap type condensate drain
Ventilation Fan(s)	Direct or belt drive backward curved centrifugal type Copper guarded non-sparking construction
Condenser Fan	Direct drive axial polypropylene non-sparking type
Fan Motors	Ex certified heavy duty TEFC motor
Return Air Filter	High efficiency washable panel type
Electrical Enclosure	Fully integrated certified Ex d electrical enclosure suitable for use in the specified hazardous area. Contains all motor control equipment and protection devices
Electrical Cables	All cables - steel wire armoured connected to Ex enclosures via Ex certified glands. Intrinsically safe cables are identifiable by a pale blue PVC external cover.
Ex Marking	IECEX: Ex d e [ia] mb IIB+H2 T3 ATEX: II (1) 2 G Ex d e [ia] mb IIB+H2 T3
Certification	 IECEX SIR 11.0155X, Sira 11ATEX1356X 
Australian Refrigeration Council Ltd. Certificate	Authorisation No: AU07408