



ANDOVER PROTECTION SYSTEMS, LLC

COMPRESSORS FOR AIR CONDITIONING & REFRIGERATION IN HAZARDOUS AND EXPLOSIVE ENVIRONMENTS



1/20 hp to 1 hp



1 hp to 10 hp



10 hp to 25 hp

ANDOVER PROTECTION SYSTEMS MANUFACTURES THE ONLY LINE OF HERMETIC REFRIGERATION COMPRESSORS EXPRESSLY TESTED AND APPROVED FOR USE IN HAZARDOUS AREAS REQUIRING EXPLOSION-PROOF OR FLAMEPROOF EQUIPMENT.

Explosion-Proof Compressors that feature...

- Hermetic compressors--no belts, open compressors nor separate motors
- Brazed or rotolock connections, no leaky seals--nor belts, open compressors or separate motors
- UL recognition eases UL, ETL, CSA and other NRTL listings of your products for hazardous locations
- Enclosures large enough to eliminate the need for NEMA 7 and 9 boxes
- Large, comfortable access for wiring
- Over 900 models with capacities ranging from 1/20 hp to 25 hp
- Classes I, II, and III
- Groups B, C, D, E, F and G
- Divisions/Zones 1 and 2
- 50 & 60Hz and most voltages available
- Easy Maintenance
- Meet NEMA 4X, 7, 9 and 12 and IP66 standards
- Temperature-Rated T3C or better
- Most refrigerants-CFCs, HCFCs, and the newest HFCs
- Specifically tested and recognized by Underwriters Laboratories (UL) as safe for use in hazardous locations (the only compressors recognized by UL for hazardous applications)
- Anti-corrosion coatings

Why use APS Compressors?

- No other compressor is expressly recognized by Underwriters Laboratories (UL) as safe for use in either Division/Zone 1 or Division/Zone 2 locations in any class or group.
- When a manufacturer builds a complete air conditioner, refrigerator, water cooler or other hazardous-duty product, it has UL's assurance that the compressor is safe for the indicated environments. Since the compressor is specifically recognized by UL, a manufacturer avoids the delays and costs of having its compressor construction tested and approved by a certifying body.
- Replace open compressors and eliminate their motors and belts, thereby reducing noise, size, weight and vibration.
- The brazed connections on APS compressors also eliminate refrigerant leaks commonly found around the seals on open compressors.
- The compressors are hermetically sealed and all their electrical connections are protected by heavy steel housings which are virtually impossible for gases, dust, and liquids to penetrate.
- At 4", the diameter of the housing is big enough to insert a large hand to wire the connections. They also have enough space to install ordinary thermostats and switches to eliminate the need for NEMA 7 and 9 boxes and for special "explosion-proof" electrical controls in water coolers and many other products.
- APS protects all its compressors with an anti-corrosive coating to assure long life in corrosive, even marine, environments.
- APS compressors make replacement of compressors easy, fast and simple enough to be more economical than replacing the entire host unit, even when labor is costly.
- Construct "explosion-proof" hermetic systems using only UL-recognized components and thereby reduce the cost of third-party approvals.



Units Available:

- Class I Groups B, C, and D Divisions/Zones 1 and 2 (IEC and EN Groups IIA, IIB, and IIB+Hydrogen)
- Class II Groups E, F, and G Divisions/Zones 1 and 2
- Class III Divisions 1 and 2

Over 900 different models available.

Capacities from 1/20 HP through 25 HP for high, medium and low-temperature applications. Most refrigerants including HFCs, HCFCs and CFCs.

Most electrical configurations: Voltages from 115 through 575 volts, 50 and 60 Hz, 1 and 3 phase. APS manufactures all its equipment in the United States of America.

Other Special Features:

- APS' encapsulation technique also protects electrical connections and controls in corrosive environments which are not hazardous.
- APS can protect all of its compressors with epoxy coatings so durable that they are suitable for immersion in sea water.
- At 4", the diameter of the housing is big enough to wire the connections by hand.
- All welds are pressure tested for integrity.

Other APS products:

Condensing Units: APS offers condensing units for air-conditioners and chillers for use in harsh and/or hazardous locations.

Quick-Assembly Inserts: APS makes complete electrical assemblies for manufacturers to drop into their existing water fountains and refrigerators to convert them quickly and inexpensively into hazardous-duty units.



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