

APS EXPLOSION-PROOF AND FLAME-PROOF COMPRESSORS

Compressors for Air Conditioning and Refrigeration in Hazardous and Explosive Environments



*Andover Protection
Systems manufactures*

*the only line of hermetic refrigeration compressors expressly 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 connections, no leaky seals—nor belts, open compressors or separate motors
- Enclosures large enough to eliminate the need for NEMA 7 and 9 boxes
- Large, comfortable access for wiring
- Over 200 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 & 60 Hz and most voltages available
- Easy Maintenance
- Meet NEMA 4X, 7, 9 and 12 and IP66 standards
- Temperature-Rated T3B
- 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 epoxy 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.
- ◆ 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.
- ◆ 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.
- ◆ APS protects all its compressors with an epoxy mastic 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.

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 200 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 protects all 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.



ANDOVER PROTECTION SYSTEMS, INC.

63 Flushing Avenue, Unit 236
Brooklyn, New York 11205 USA

Tel: (718) 643-1110

Fax: (718) 797-1120

www.andoverprotection.com

Your local representative: