Industrial HVAC/R Products

for

Explosion Proof and Severe Service

- AIR CONDITIONERS
- PRESSURIZATION SYSTEMS and BLOWERS
- KoolKart® MOBILE AIR CONDITIONERS
- HEATERS, HUMIDISTATS and THERMOSTATS
- ELECTRONIC CABINET AIR CONDITIONERS
- SPLIT SYSTEMS and UNIT COOLERS
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SafetyCool.......Explosion Proof Air Conditioners for Division 2

SafetyCool Air Conditioners offer the user a wide range of models for use in hazardous locations classified Class I, Groups B, C or D, Division 2. Cooling models are CSA (Canadian Standards Association) certified to meet both U. S. and Canadian Safety Standards. SafetyCool air conditioners are reliable, economical units for window or thru-wall installations on offshore production platforms, in analyzer shelters, industrial control rooms and in hazardous materials storage buildings. Models with both heating and cooling feature full electric heat. This design assures full heat output even at minimum outside temperatures and avoids the limitations of modified commercial heat pumps. All models are covered by a three year limited warranty.

Request Product Specification Sheet EXWI

HazardCool.......Explosion Proof Air Conditioners for Division 1

HazardCool Industrial Air Conditioners offer a full line of models for use under NEC Classes I and II, Groups C, D, F and G, Divisions 1 and 2. All units are CSA (Canadian Standards Association) certified to both U. S. and the more stringent Canadian standards. Optional epoxy finish, SaveCoil 101 coil coatings and type 316 stainless housings assure unmatched corrosion protection. Only industrial quality, U.L. and CSA recognized components are used. All wiring is enclosed in rigid conduit. A slide-out chassis facilitates service and maintenance. The built-in thermostat and air flow deflectors are adjustable from the front panel.

Request Product Specification Sheet EXWI

FEATURES

- For Hazardous Locations Classified per NEC Class I, Groups B, C or D, Division 2
- CSA Certified to U. S. and Canadian standards
- Cooling Capacities from 8,200 to 33,000 BTUH
- Heat / Cool Models with all electric heat from 7,600 to 27,100 BTUH
- Front Panel Controls for Temperature and Discharge Air Control
- Remote Thermostats *
- Full Corrosion Protection Package *
- Also Available in 50 Hertz Models
- Three-Year Limited Warranty

* = Optional

FEATURES

- For Hazardous Locations Classified per NEC Class I, Groups C and D and Class II, Groups E, F and G, Divisions 1 and 2
- CSA Certified to U. S. and Canadian standards
- Cooling Capacities From 8,200 to 33,000 BTUH
- Built-in Thermostat Adjustable from Front Panel
- Type 316 Stainless Steel Housing *
- Slide-Out Case for Easy Access
- Full Corrosion Protection Package *
- Available with Accessory Electric Heaters
- Also Available in 50 Hertz Models
- Three-Year Limited Warranty

* = Optional
**VA 40 Industrial Grade Vertical Air Conditioners**

**Features**
- Built for Severe Industrial and Marine Service
- Models for Hazardous Locations per NEC Class I, Groups B, C, and D and Class II, Groups E, F and G, Divisions 1 and 2 *
- Available as Combination Air Conditioner / Pressurization Systems (see PB 24 on p. 7)
- Cooling Capacities from 2 to 12.5 tons
- Air or Water Cooled or Remote * Condenser
- Steam or Electric Heat *
- Full Corrosion Protection Package inc. Stainless Cabinet and **SaveCoil 101** Coil Coating *
- Self-Contained, Pretested, Easy to Install
- Models for 50 Hertz and for High Ambient Temperatures
- Three Year Warranty

* = Optional

**VA 40 Series: Vertical Air Conditioners** are designed and built for reliability, minimal maintenance and longevity in industrial and offshore service. Models available for interior or outside installation. Features include 14 ga steel cabinets, coils with extra wide fin spacings and components specially selected for severe service. Motors are TEFC with 1.15 service factor. Blowers are belt driven with adjustable speed pulleys and permanently lubricated bearings. Explosion proof models have spark proof construction and are certified for hazardous locations under National Electric Code (NEC) Class I, Groups B, C and D or Class II, Groups F and G for Divisions 1 and 2. An optional corrosion protection package includes a stainless steel housing, baked **SaveCoil 101** coil coating and full epoxy protection of all remaining metal surfaces. Other options include water cooled or remote condensers, fused disconnect switch, gas and smoke detectors and fire dampers.  

Request Product Bulletin VA401PSS

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**VACX Economy Series Vertical Air Conditioners**

**Features**
- Low Initial Cost
- Compact Design with Minimum Footprint
- Cooling Capacities from 18,000 to 60,000 BTUH
- Models for Cooling Only or Heat Pumps
- Modified for Hazardous Locations per NEC Class I, Groups B, C and D, Division 2 *
- Ample Static Pressures for Air Duct Distribution
- Corrosion Resistant **SaveCoil 101** Coil Coating *
- Self-Contained, Pretested, Easy to Install
- Single and Three-phase Models for 50 and 60 Hz

* = Optional

**VACX Economy Series Outside Wall-Mounted Air Conditioners and Heat Pumps** are an economical solution for commercial and light duty use. Units have 20 ga galvanized steel cabinets finished with an attractive beige enamel. All models have a mounting flange as an integral part of the housing for easy installation on an outside building wall. Models are also available electrically modified for use in areas classified as hazardous under NEC Class I, Groups B, C and D, Division 2.  

Request Product Bulletin VAEC1PSS
PACX Series...Explosion Proof
Packaged Air Conditioners

AHX Series...Explosion Proof
Air Handlers for Split Systems

FEATURES

- For NEC Class I, Groups B, C and D, and
  Class II, Groups E, F and G, Division 1 or 2
- Safety Engineered for Hazardous Locations
- Capacity Ratings from 2 to 50 Tons
- Blowers Spark Resistant per AMCA Standard
- Models for Horizontal or Downflow Air Discharge
- Full Corrosion Protection with Epoxy Finish and
  SaveCoil Coating Finish *
- Self-Contained, Pretested, Easy to Install
- **Combined Air Conditioning / Pressurizing** Systems available in PB 20 Series (Page 7)
- Electric Heaters and Disconnect Switch *
- Also Available in 50 Hertz Models

* = Optional

PACX Series Packaged Air Conditioners are the first choice for use in areas classified as hazardous. They are widely used for air conditioning crew quarters and control centers on oil production platforms. Other applications are in refineries, chemical and pharmaceutical plants, manufacturing facilities, and for hazardous material storage buildings. When both air conditioning and pressurization are required per NFPA 496 or other industrial codes, the **PBX 20 Combined Air Conditioning and Pressurizing System** is recommended (See page 7).

Request Product Specifications PASE1PSS

FEATURES

- For NEC Class I, Groups B, C or D in Div. 1 or 2
- Vertical and Horizontal Configurations
- DX or Chilled Water, capacities from 1 to 20 tons
- Steam or Explosion proof Electric Heat
- Fully Insulated with Fiberglass to R=3.26
- Copper Coils with Aluminum or Copper * Fins
- Expansion and Explosion proof Solenoid Valves *
- Built-In Return Air Filters
- Sparkproof Blowers per AMCA Standards
- Heavy Duty Housing with Baked Enamel Finish
- **SaveCoil 101** Corrosion Resistant Coil Coatings, Stainless Housings and Drain Pans *
- Explosion Proof Thermostats and Humidistats *
- Capacity Matched Condensing Units (Page 9)
- Models for 50 or 60 Hertz Service

* = Optional

AHX Series Air Handlers in a wide range of cooling capacities are offered for use in split air conditioning systems. Each model is engineered and built to conform with NEC (National Electrical Code) requirements for hazardous areas designated Class I, Groups B, C or D in Divisions 1 and 2. Corrosion resistant, insulated double wall, and high pressure units are available for special applications, as are models with gas phase and particulate filters.

Request Form SPAI1FRM
**PB 10 Through-the-Wall Room Pressurizing Blowers**

**PB 15 Pressure Blowers with Gas Phase Filtration**

**FEATURES**

- Provides Positive Pressures for Rooms and Small Buildings in Hazardous Locations
- **CSA certified** for Class I, Groups B**, C and D and Class II, Groups F and G, Division 1 and 2
- Automatic Pressure Control with Built-In Pressure Readout and Alarm Contacts
- Eliminates Problems with High Maintenance of Competitive Damper Controlled Units
- Slide-Out Chassis for Convenient Access
- Speed Modulated Blower Maintains Any Preset Pressure from 0.025" to 0.20" w.c.
- Minimizes Heating and Cooling Losses
- Meets NFPA 496 and Similar Industrial Codes
- Single or Redundant* Blowers with Air Flows to 2600 CFM
- Air Filter Easily Serviced from Front Panel
- Available in 50 or 60 Hz and all Standard Voltages

**PB 10 Series** Controlled Pressure Blowers are the economical solution for maintaining positive room pressures. Pre-assembled and pretested, they offer ready compliance with NFPA 496, API and other industrial codes that require buildings inside hazardous locations to be operated under specified conditions of air pressure and air flow. Explosion proof models comply with the National Electric Code (NEC) under Class I, Groups B, C and D or Class II, Groups E, F and G, Div. 1 or 2. All units are fully instrumented with pressure set controls, pressure display, and blower start/stop controls. Operation is fully automatic; troublesome pressure control dampers are not required. A corrosion protection package and dual blowers with automatic switch-over controls are optional.

**PB 15 Series** Controlled Pressure Blowers with optional Side Access Filter Housings provide pressurization and air filtration for buildings in hazardous (explosion proof), dusty or corrosive locations. Each unit includes a pressure modulated blower and all required controls. An optional, applications engineered filter housing accepts a wide range of particulate, carbon, multi-mixture, and most competitive filter modules. All models are computer selected, fully instrumented and factory tested. The results: Clean, precisely pressure controlled air and safe, economic compliance with ISA, NFPA, API and related industrial codes. Units can be installed in- or outdoors, on rooftops or at ground level. Audible pressure loss alarm, specific gas sensors, and filter status indicators are optional.

Request Product Bulletin PRBL1

**FEATURES**

- *Automatic Building Pressure Control, Air Filtration* and Heating* in one Pre-Assembled Module
- Pressure Adjustable from 0.025" to 0.50" w.c.
- Explosion Proof* per Class I, Group B, C or D and Class II, Group E, F or G, Division 1 or 2
- Excellent Dust, Odor and Corrosion Control with Choice of Particulate and Gas Phase* Filters
- Control Panel for Control and Status of Blower, Building Pressure and Filter Conditions
- Low Noise Blowers from 1300 to 6250 CFM at Static Pressures to 5" w.c.
- For Indoor or Outdoor Installation
- Standard with Pressure Loss Signal Contacts and Adjustable Alarm Delay
- Redundant Systems with Automatic Switch-over*
- Smoke, Hydrocarbon or Specific Gas Detectors* with Alarm and Automatic Shutdowns
- Available in 50 or 60 Hz and all Standard Voltages

* = Optional

"** = Division 2 only

Request Product Bulletin PB151
Industrial buildings in hazardous or dusty locations require pressurization to meet the requirements of NFPA 496, API, NEC, and other industrial codes. The **PB 24 Series** provides both air conditioning and pressurization with all necessary controls in one compact, pre-assembled and pretested module.

These units are built for ruggedness, performance and reliability. Extra strength cabinetry, corrosion protective coating systems and industrial grade components provide unsurpassed quality, performance and reliability. A control panel with pressure selection and readout, thermostat, alarm contacts, blower switch and status lights is included.

Options include dual pressure blowers with automatic backup, gas and smoke detectors, heaters, stainless steel cabinets, *SaveCoil 101* coil coatings and water-cooled condensers. Request Product Specification Sheet PB24

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**FEATURES**

- Building Pressurization, Air Conditioning, and Heating in one Pretested Module
- Explosion Proof models for Class I, Groups B, C and D and Class II, Groups E, F and G in Division 1 or 2.
- Comply with NFPA 496 and API Codes
- For Severe Industrial or Marine Service
- Control Panel with Pressure Readout, Pressure Loss Alarm, and Thermostat
- Cooling Capacities from 3 to 12.5 tons
- Corrosion Resistant Stainless Cabinets and *SaveCoil 101* Coil Coatings *
- Three-Year Limited Warranty

* = Optional

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**PB 24 Air Conditioners with Building Pressurization Controls**

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**FEATURES**

- Cooling, Heating, Pressurization and Air Filtration in a One, Preassembled Module
- Cooling Capacities from 2 to 50 tons
- Speed Modulated Blower Maintains Any Preset Pressure from 0.025 to 0.50" w.c.
- Explosion Proof Class I, Groups B, C or D and Class II, Groups E, F and G, Div. 1 or 2
- Skid Mounted, Pretested System for Timesaving Installation and Start-Up
- Control Panel with Pressure Readout, Pressure Loss Alarm, and Purge Controls
- Filters for Dust, Odor* and Corrosion * Control
- Smoke, Hydrocarbon or Specific Gas Detectors with Alarm and Automatic Shutdown *
- Corrosion Resistant Coatings and Coil Finish *

Series PB 20 combines air conditioning, pressurization, and make-up air filtration on one skid. Units offer convenient and economic means for achieving compliance with NFPA 496 and similar industrial codes. A quiet, variable speed blower automatically maintains the preset building pressure. Only the make-up air required to offset building leakage and losses from door openings is supplied. Gone are sluggish response, constant need for adjustments, and the high maintenance associated with barometric dampers. The units are fully instrumented with thermostat, pressure selector and display, and Start/Stop controls. Deep bed gas phase and high dirt loading filters are optional. Dual (redundant) blowers and air conditioning with automatic switchover controls are optional. Request Product Specification Sheet AIPR

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**PB 20 Air Conditioners with Pressurization and Air Filtration**

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* = Optional
KoolKart® Industrial Grade Mobile Air Conditioners

**FEATURES**
- Built for Demanding Industrial Applications
- Cooling Capacities from 2 to 15 tons
- Models to 7-1/2 tons clear 34" door openings
- Built in Thermostat and Phase Indicator
- Special models for Humidity Control *
- Adjustable Discharge Air Volumes and Pressures
- Disposable, 4" Pleated Air Filters
- High Dust Load, Carbon or HEPA Filters *
- Full Pneumatic Tires, Lifting Lugs
- Epoxy Primed with Attractive Urethane Finish
- Electric Heaters for Year Round Use *
- Explosion Proof Models for Cl. I, Grp. B, C and D or Class II, Groups E, F and G, Div. 1 or 2 *
- SaveCoil 101 Corrosion Protective Coil Coating *
- Air Diffuser Walls for Sustained Cooling Comfort *

* = Optional

KoolKarts® are heavy-duty mobile air conditioners engineered for cooling and dehumidification. Applications include manufacturing and processing areas and related control and storage buildings. Optional explosion proof models meet NEC requirements for hazardous locations. Very rugged yet compact, KoolKarts® provide air conditioning for temporary or permanent installations. Air or water-cooled and fully self-contained, KoolKarts® models to 15 tons are easily moved about by one person. Units to 7-1/2 tons pass through standard 34" wide door openings. A single KoolKart® discharges conditioned air through from one to four ducts and over distances up to 125 feet. For increased personal comfort, an optional air diffuser wall delivers the cooled air at low velocities. All KoolKarts® are offered in 50 and 60 Hertz and in single and three phase voltage configurations. Special models are available for use at unusually high ambient temperatures.

Request Product Specification Sheet KOMO

KoolKart® Magnum Hi-Capacity Mobile Air Conditioners

**FEATURES**
- For Military and Industrial Applications
- Cooling Capacities from 20 to 60 tons
- Single or Dual Axle Trailers for In-Plant and Highway Use *
- Explosion Proof Models for Class I and II *
- Dual Cooling Circuits for Backup and Capacity Control
- Adjustable Blower Speeds, Outlet Air Pressure and Flow Configurations
- Special models for Humidity Control *
- Efficient U.L. Class 2 Air Filters or High Dust, Carbon or HEPA Filters *
- Oven Baked SaveCoil 101 Corrosion Protective Coating *
- Electric Heaters for Year Round Use *

* = Optional

The KoolKart® Magnum Series covers the range of 20 to 60 tons cooling capacity. These high capacity units are the mobile cooling systems of choice with military forces and industry throughout the world. Air or water-cooled, KoolKart® Magnum units perform efficiently at high ambient temperatures and in dirty, dusty, or corrosive environments. Explosion proof models are available for locations classified as hazardous under NEC Class I, Groups C and D or Class II, Groups E, F and G in Divisions 1 and 2. The basic units are assembled on I-beam frames. This rigid assembly can then be installed on trailers engineered for the specific application. Compressors, coils, motors and related components are housed in corrosion protected, heavy steel enclosures. Every effort has been made to provide reliability, operating simplicity and the versatility necessary to meet demanding applications. The result is equipment that is exceptionally rugged, simple to operate and requires only minimal maintenance and service.

Request Product Specification Sheet KOMA
**UCX Series Explosion Proof Unit Coolers for Refrigeration**

- For NEC Class I, Groups B, C or D in Div. 1 or 2
- Circuited for R-22, R-34a, R-404, HP 62 and other refrigerants
- Models for High, Medium and Low Temperatures
- Explosion Proof Solenoid Valves
- Capacities from 5000 BTUH to 20 tons
- Choice of Fin Spacings
- Aluminum Housings and Drain Pans
- **SaveCoil 101** Corrosion Protective Coil Coatings, Stainless Housings and Drains *
- Freezer Models with Hot Gas Defrost, Insulated and Heat Traced Drain Pans
- Capacity Matched Condensing Units

* = Optional

**UCX Series** Explosion Proof Unit Coolers are for use in walk-in coolers and freezers storing hazardous or flammable materials. Cooling capacities range from 5000 to 240,000 BTUH. A range of models are offered to comply with NEC Class I, Groups B, C or D in Divisions 1 or 2. Models are also available built to IEC (CENELEC) standards. Units feature spark proof fans, aluminum housings and drain pans. Fin spacings range from 4 to 8 fins per inch. All motors are TEFC. Low temperature models have provision for hot gas defrost and insulated drain pans. Stainless steel housings and stainless drain pans are optional, as are **SaveCoil 101** coil coatings for excellent corrosion protection.

Request Form SPUN1

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**CUX Series... Explosion Proof and Severe Duty Condensing Units**

- NEC Class I, Groups B, C or D and Class II, Groups E, F and G for Divisions 1 and 2
- Models for Air Conditioning or Refrigeration
- Capacities to 50 HP
- Air or Water-Cooled Condensers
- Cupro-Nickel Marine Condensers *
- Industrial Grade, Quick Access Housings
- Totally Preassembled and Pretested
- Models for Severe Service, High Ambient Temperatures and Corrosive Environments
- Optional Explosion Proof Disconnect, Defrost Timer, Oil Separator, Solenoid Valves and Crankcase Pressure Regulator (CPR)

* = Optional

**CUX Series** Explosion Proof and Severe Service Condensing Units are offered in a wide range of models for use in hazardous and/or severe duty environments. These reliable cooling sources are engineered for applications ranging from comfort conditioning to freezer storage. Models are available to match AHX Series air handlers and UCX Series unit coolers.

Request Form SPCO1
**EHXP Series Explosion Proof Electric Heaters**

- UL, FM, or CSA Listed for Hazardous Locations
- For NEC Temperature Codes T1 to T3B
- Heating Capacities from 6,140 to 102,390 BTUH
- Models for Floor, Wall, and Ceiling Installation
- **HotKart** Models for Mobile Use
- Optional Thermostats and Disconnects
- Available in all Standard Power Configurations and for 50 or 60 Hertz Service.

**FEATURES**

- Easily Rolled to Location on Pneumatic Tires
- For NEC Class I, Groups C+D, Division 2
- Temperature Codes to T3A
- Air Flow to 2000 CFM
- Standard Heating Capacities to 20 kw
- Proven in NASA and Industrial Applications
- Built-In U.L. Class I Air Filter
- Available in all Standard Power Configurations and for 50 or 60 Hertz Service.

**HotKart Explosion Proof Electric Heater Carts**

**CV Series**
Economical convection heaters for floor or wall installation with capacities from 6,140 to 25,610 BTUH. Thermostats and disconnects are available factory installed.

**CF Series**
Compact forced air heaters for wall or ceiling installation. Heating capacities from 10,240 to 40,980 BTUH.

**SF Series**
Forced air heaters with wide selection of “T” Codes. Ceiling or wall mount with heating capacities from 25,600 to 102,390 BTUH.

**LF Series**
Feature liquid heat transfer medium in a permanently sealed, liquid to air heat exchanger. Capacities from 25,600 to 85,370 BTU per hour.

* = Optional

Request Product Specification Sheet EXEL
CAXP Series Explosion Proof Control Panel Air Conditioners

**FEATURES**
- Cooling Capacities from 2,000 to 19,000 BTUH
- For Hazardous Locations Classified NEC Class I, Groups B, C or D, Division 2
- Compact Designs to Fit Top or Side of Cabinet
- Models for Cabinets from 2 to 6 feet in Height
- Self-Contained, Pretested, Easy to Install
- Special Models for Corrosive or Dusty Locations
- For 115V or 230 Volts, 60 Hz and also in 50 Hertz Models

CAXP Series Electronic Control Cabinet Air Conditioners are top quality commercial units that have been factory modified for safe use in hazardous locations. These units meet the requirements of the National Electric Code (NEC) under Class I, Groups B, C or D, Division 2. A variety of models is offered for installation on the side or top of electronic cabinets from two to six feet in height. Cabinet pressurization with simultaneous air conditioning is also available as are models for corrosive or high ambient temperature applications.

Contact Factory for Engineering Data Sheets and Load Calculations

RACX Cabin Roof Explosion Proof Air Conditioners

**FEATURES**
- Designed for Use on Crane Cabs, Drilling Platforms and in Portable Buildings
- Impact and Vibration Resistant
- Both Unit and Controls Classified NEC Class I, Groups B, C and D, Division 2
- Cooling Capacity 13,500 BTUH
- Excellent Corrosion Protection
- Self-Contained, Pretested, Easy to Install
- For 115V, 60 Hz

RACX Cabin Roof Explosion Proof Air Conditioners are the units of choice for cooling small areas such as crane cabs and mud logging buildings. These compact air conditioners are classified NEC Class I, Groups B, C and D for both inside controls and all exterior components. A high impact resistant plastic housing, plastic drain, coated condenser coil and special hardware are combined to provide maximum corrosion protection. Construction features include a structural compressor support for maximum impact resistance. Available only for 115 V/1/60Hz.

Contact Factory for Engineering Data Sheet
**Systems for Corrosion, Odor, Dust, and Toxic Gas Control**

High Capacity Deep Bed Filter for PBX 20 Air Conditioning / Pressurization Systems

**"Turn-Key" Design and Build Installations**

Preassembled and pretested Vapor Recovery System Designed, Built and Installed by Scientific Systems

**Applications Engineered Systems**

- Fully Integrated Air Conditioning / Pressurization and Air Filtration Systems
- Performance / Cost Optimization of Entire System
- Wide Choice of Filter Housings and Media
- Gas Phase, Particulate and Spin Type Filters
- Choice of Vendors for Replacement Media
- Filter Interchangeability with Existing Systems
- Phone or In-Plant Assistance and Support

When designing and building air filtration systems for our customers, it is our policy to provide equipment and media with the best performance to cost ratio. Both the initial cost and the cost of maintaining the required system are carefully evaluated. The ability and know-how to design and build air conditioning, pressurization and filtration systems under one roof makes Scientific Systems equipment exceptionally effective and cost efficient.

**Design - Build, Install & Start-Up**

- Industrial HVAC Systems for Control Rooms, Motor Control Centers, Laboratories, Analyzer Shelters, and Storage Buildings
- Control Panels, Consoles and Cabinets
- Analyzer Systems
- Skid Mounted Pilot Plants
- Explosion Proof Process Chillers
- Refrigerated Explosion Proof Storage Buildings
- Temperature and Humidity Test Chambers
- Turbine Air Cooling Systems
- Water Treatment Laboratories

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