



# Innovative Safety Products

## 2022 Master Catalog



**Respiratory Protection**



**Confined Space Ventilation**

# The Air Systems Team

## Quality Products Backed by Our Experienced Customer Service, Production & Engineering Departments

Our dedicated family of specialists, backed with our combined knowledge and years of expertise in the safety industry, take the time to understand and deliver the right solution to your specific application.



Ray Ellis  
Senior Vice President  
Sales & Marketing



Mick Bowden  
Vice President  
National Sales Manager



Stephen Durr  
Marketing Manager



Marcey Ricucci  
Senior Customer Service  
Specialty Markets



Mike Fugere  
International &  
Compressor Sales  
Coordinator



Abby Ilardi  
Customer Service &  
Inside Sales Coordinator



Lisa Hobbs  
Order Entry  
Administrator



Amber Kerzanet  
Senior Repair  
Services Coordinator



Ray Harris  
Repair Manager & Asst.  
Production Manager



J.D. Jamison  
Vice President  
Production Manager



Shane Intravotola  
Vice President  
Engineering



Patrick Ricucci  
Quality Assurance  
Manager

## *Commitment to our Customers*

Air Systems International is always committed to our valued customers' needs, special job requirements, and will respond to their safety and health concerns.

The products we manufacture have been developed out of a specific need or desire to perform work more safely and with greater productivity.

We will always continue to respond to the demands and innovative ideas of our most valued asset - **OUR CUSTOMERS!**



David F. Angelico, President

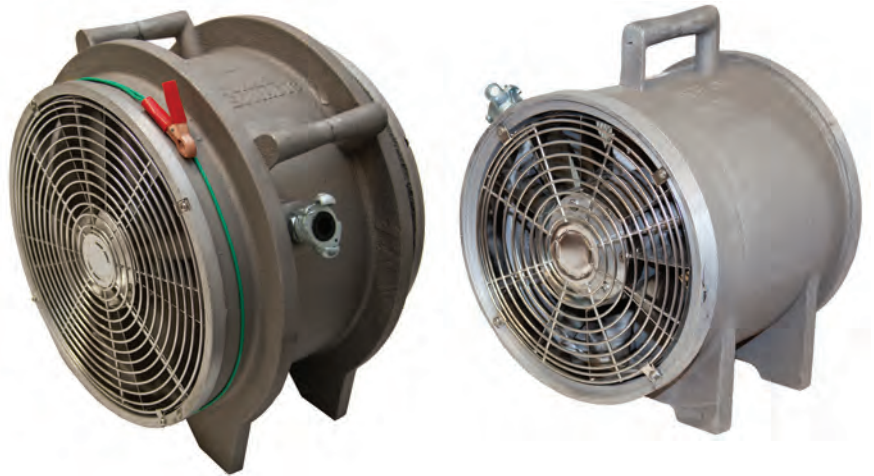


# New Products

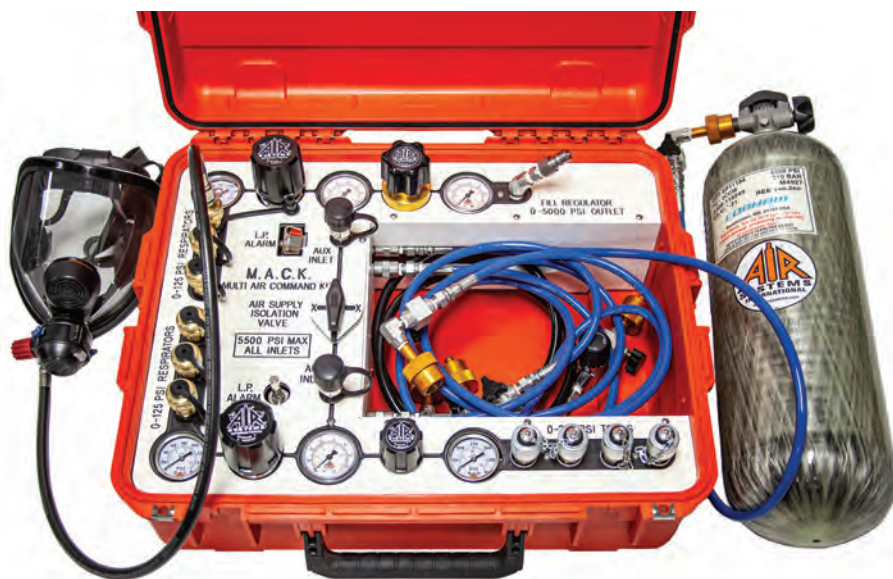
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## Understanding Breathing Air Systems

To understand breathing air, you **MUST** first understand the various types of NIOSH approved respirators available for use in the workplace.



All respirators are classified as either **Negative Pressure** or **Positive Pressure** Respirators.



### Negative Pressure Disposable Mask Respirator

The respirator wearer must inhale through the mask - approved for dusts, mists, vapors and fumes.

**Not approved for use in IDLH atmospheres  
(Immediately Dangerous to Life or Health)**

### Negative Pressure Disposable Cartridge Respirator

This style of respirator has replaceable cartridges or filters and comes in half mask or full face. Powered Air Purifying Respirators (PAPR) are a type of cartridge filtering respirator with a battery powered blower. They are approved for use where a filter cartridge is approved for the contaminant.

**Note: Users must be fit tested to assure a proper face seal is achieved.**

**Not approved for use in IDLH atmospheres**



### Positive Pressure (Type-C or CE) Airline Respirator - Constant Flow Hood Style

**All constant flow respirators supply air continuously to maintain positive pressure inside the face piece or hood.**

All airline respirators are classified by NIOSH as Type-C or Type-CE (approved for sandblasting).

Hood Style airline respirators are required by NIOSH to flow 6-15 cfm air flow per person.

Hoods are available in low pressure style for use with ambient air pumps, requiring 3-15 psi.

High pressure hoods, 25-110 psi, would require Grade-D breathing air provided by a Breather Box®.

**Note: No fit test is required with a hood style respirator.**

**Not approved for use in IDLH atmospheres**



### Positive Pressure (Type-C) Airline Respirator - Constant Flow Style

Positive Pressure respirators are available in half mask or full face and are required by NIOSH to flow 4-15 cfm per mask, and available in low pressure style for ambient air pumps, requiring 3-15 psi. High pressure style, 25-110 psi, would require Grade-D breathing air provided by a Breather Box®. Constant flow respirators provide higher protection factors than air-purifying negative pressure respirators and are not recommended for use with high pressure bottled air systems due to their high air consumption.

**Not approved for use in IDLH atmospheres**



### Positive Pressure (Type-C) Airline Respirator - Pressure Demand Style

Pressure Demand (PD) respirators supply air "on demand" and maintain a minimum positive pressure in the face piece at all times. PD respirators are required by NIOSH to flow 4-15 cfm to the mask like a constant flow style respirator. Pressure demand respirators provide a high protection factor and can be used on high pressure cylinder air or low pressure filtration systems such as a Breather Box®.

All PD respirators operate between 60-110 psi and require the use of Grade-D breathing air provided by a Breather Box® or Grade-E cylinder air.

**A PD respirator supplied with a five minute escape cylinder is approved for use in IDLH atmospheres**



## What is Grade-D Air Quality?

Breathing air quality standards have been developed by ANSI/Compressed Gas Association (CGA) G-7.1 - 1989, and adopted by OSHA under their respiratory standard 29 CFR, 1910.134 (i) (1) (ii).

### Air Quality Must Meet the Following Requirements:

- Oxygen: 19.5%-23.5% (20%-22% Canada)
- Hydrocarbon (condensed oil): 5 mg/m<sup>3</sup> maximum (<1 mg/m<sup>3</sup> in Canada)
- Carbon Monoxide (CO): 10 ppm maximum (5 ppm in Canada)
- Carbon Dioxide (CO<sub>2</sub>): 1000 ppm maximum (500 ppm in Canada)
- Odor: No noticeable odors, tastes, or smells
- Water Content:
  - High pressure cylinder air** must have a dew point of at least -50°F (-45.6°C) at 1 atmosphere (14.7 psi).
  - Low pressure breathing air** must have a dew point of at least 10°F (5.56°C) below the ambient temperature at 1 atmosphere (14.7 psi)
  - Canada:** 5°C below lowest temperature, 27 ppm maximum water vapor
- Total Volatile Hydrocarbons (Canada): 5 ppm maximum



## Elements of a Type-C/CE Supplied Air System

*All airline respirators are Type-C or Type-CE.*

CE designates an airline respirator approved for abrasive blasting.

**Note:** Type-C/CE is a NIOSH designation for an air supplied breathing air respirator system.



### A Type-C/CE system consists of the following components:

#### Compressed Air Source

Electric / Gas / Diesel Compressor or Compressed Air Cylinder(s)



#### Filtration

Grade-D Breathing Air with Carbon Monoxide Monitoring (Portable or Fixed System)



or



#### Air Distribution

Consists of: Air Pressure Regulator, Pressure Gauge, Safety Relief Valve, and Approved Respirator Couplings. The Assembly is Called the Point of Attachment (POA)



#### Respirator

From the Point of Attachment (POA), Maximum 300 Feet of NIOSH Approved Breathing Air Hose with Approved Couplings



### Using Cylinder Air



Cylinder Air Must Be Grade-E Air Quality



Air Distribution

## Sizing a Type-C/CE Airline Filtration System

Sizing a filtration system, determining the size Breather Box® or panel to order, is based on air flow (CFM), pressure requirements (PSI) of the respirators being worn, and the number of workers.

### Air Consumption (CFM) and Pressure (PSI) ranges for types of respirators:

Respirator Type	Air Consumption @ Pressure
Pressure Demand	4 - 15 cfm @ 60 - 120 psi
Constant Flow Half/Full Mask	4 - 15 cfm @ 4 - 30 psi
Constant Flow Hood (Low Pressure)	6 - 15 cfm @ 3 - 15 psi
Constant Flow Hood (High Pressure)	6 - 15 cfm @ 25 - 110 psi
Vortex Cooling Tube (Option)*	15 - 25 cfm @ 60 - 110 psi

*\*If a Vortex cooling or heating tube is used by the worker, the total air consumed is calculated by the air consumption of the vortex device.*

Once the total number of workers is established and the type of respirator selected, multiply the number of workers by the respirator's maximum flow rate required per worker to determine total flow requirements:

**Example: 4 workers using 4 hood style respirators  
4 x 15 cfm = 60 cfm required**

**Filtration recommended:** Air Systems' BB50-CO Breather Box®, 4 workers, with CO monitor (maximum flow capacity of 79 cfm). User must have enough compressor flow (cfm) capacity to supply the above respirators, plus additional air needs placed on the system, i.e. air tools, spray nozzles, sandblasting, painting, etc.



When ordering a Breather Box®, the customer **MUST** specify the couplings used on the respirator(s) selected. The Breather Box® fittings must be the same type as the respirator hose fittings to maintain NIOSH approval on the respirator and hose assembly.

**NEVER Undersize a Breathing Air Filtration System!**  
**All Air Systems' filtration products are designed to flow the maximum amount of air a worker could demand.**

#### THE RESPONSIBILITY FOR QUALITY OF BREATHING AIR RESTS WITH THE USER

The air supply compressor should be located in a clean ambient air environment. This location should be tested periodically to ensure clean ambient air quality on a consistent basis. Total system air quality should be tested at the time the compressor is initially set up. If the compressor is moved, retesting air quality is recommended.

**Should the location or environment significantly change, the air quality should be retested.**

# Carbon Monoxide (CO) / Oxygen (O<sub>2</sub>) Monitors Made and Serviced in Chesapeake, Virginia



Carbon Monoxide (CO) Monitor



Carbon Monoxide (CO) and  
Oxygen (O<sub>2</sub>) Monitor



Intrinsically Safe (IS)  
CO Monitor



## Airline Monitor Details:

- **Calibration time:** Less than 2 minutes
- **Monitor display:** LCD 3 digit readout
- **Temperature range:** 4°F to 113°F (-20°C to 45°C)
- **Accuracy:** +/- 1% of full scale
- **Monitor range:** Carbon Monoxide (CO) 0-200 ppm, Oxygen (O<sub>2</sub>) optional 15-23%
- **Pressure / flow range:** 1-3 psi, flow 50-100 cc
- **Response:** 90% of full scale in 10 seconds
- **Sensor type:** 3 electrode electrochemical with bias voltage
- **Humidity range:** 5% to 95% relative humidity
- **Warranty:** 2 years on entire unit and CO sensor (1 year on O<sub>2</sub> sensor)
- **Alarm set point:** 10 ppm CO (5 ppm Canada); 19.5% O<sub>2</sub>
- **Voltage operation:** 115 VAC, dual 9 VDC battery, or 8-16 VDC (230 VAC optional)
- **Shielding:** Internal RFI/EMI circuitry, aluminum case
- **Test circuitry:** Manual push-to-test for sensor operation and alarms
- **Warning indicators:** Low battery (amber), normal operation (green), high CO (red), low O<sub>2</sub> option (red) - LED locations may vary with model ordered
- **Output signals (standard):** DC output on portables, AC output on panel versions
- **Monitor housing:** Black anodized aluminum
- **Control panel standard features:** Inlet gas quick connect coupling, auxiliary 12 VDC jack, on/off/test switch, auxiliary/remote alarm jack, 115 VAC jack
- **Certification:** Intrinsically safe (IS) CO or CO/O<sub>2</sub> monitors available (9 volt only)



## All Breather Box® Portable and Fixed Panel Specifications:

- **1<sup>ST</sup> Stage Filter** - Filter change indicator, automatic drain, removes liquids and particulate to 5.0 micron particle size
- **2<sup>ND</sup> Stage Filter** - Filter change indicator, automatic drain, provides oil coalescing and ultra-fine particulate filtration that is 99.99% efficient at 0.01 micron particle size
- **3<sup>RD</sup> Stage Filter** - Filter change indicator, manual drain, charcoal removes organic vapors and objectionable odors
- In-Line Carbon Monoxide (CO) monitor. Optional CO/O<sub>2</sub> monitor
- 2 year warranty on sensor and entire CO monitor
- **Three standard power options:** dual 9 VDC battery, 8-16 VDC, or 115 VAC, 60 Hz (230 VAC /50 Hz optional)
- AC output supplied standard on all panel mount units (optional intrinsically safe monitors supplied with 9 VDC only)
- All portable and fixed units are available with CSA approved intrinsically safe monitor for work in hazardous locations
- Remote DC alarm jack with cover cap are standard on most portable units
- All Breather Box® filtration units are designed for use in the closed and upright position to prevent internal contamination
- Filter change indicator provided on all 3 filters on most units
- Safety visual flowmeter to verify air flow to monitor, adjustable flow rate: 50-100 cc
- Safety relief valve set at 125 psi for outlet pressure
- External mounted CO warning LED lights and audible alarm, 95 dBA
- Solid aluminum block manifold with manual drain
- All respirator couplings provided with safety lock feature
- 0-160 psi pressure gauge
  - Maximum Inlet Pressure - 150 psi



### Air Systems' Air Quality Guarantee

*We are so confident you will be pleased with the performance of your portable or fixed breathing air filtration system, Air Systems International will provide your first lab certified air quality test at no charge when you purchase any of our Grade-D filtration devices or compressor systems. AirCheck™ kit rental or purchase is required to redeem offer. Please contact our customer service for further details and eligibility.*

**When ordering replacement monitors, contact Customer Service and provide the model number and serial number of the filtration unit. This will ensure the proper monitor for your system.**

# The Breather Box<sup>®</sup>

## The Industry Standard in Grade-D Air Filtration

Connected to a mobile or plant compressor, the Breather Box<sup>®</sup> provides Grade-D breathing air for 1 to 8 users (based on model) and continuously monitors for Carbon Monoxide (CO). CO/O<sub>2</sub> and Intrinsically Safe Models are also available.



Breather Box<sup>®</sup>  
BB50-CO

The Breather Box<sup>®</sup> Works with  
ANY Airline Respirator Brand

### Key Details:

- Carbon Monoxide (CO) Monitor
- CO/O<sub>2</sub> Monitor Available
- Intrinsically Safe CO or CO/O<sub>2</sub> Monitors Available
- Three Stage Filtration (99.99% efficient at 0.01 micron particle size)
- Filter Change Indicators on All Filters
- Incoming Air Plug ½" Industrial Interchange
- Two Automatic Drains with Discharge Tubes
- Remote Alarm Receptacle
- External Warning Lights and Alarm





## BB30-CO

30 cfm Breather Box®  
48 cfm flow capacity  
2 couplings



## BB100-CO8

100 cfm Breather Box®  
123 cfm flow capacity  
8 couplings



## BB50-COIS

Intrinsically Safe CO Monitor  
50 cfm Breather Box®  
79 cfm flow capacity  
4 couplings

### Portable Grade-D Breathing Air Filtration with CO Monitor

Item No.	Description
BB15-CO	15 cfm Breather Box®, 48 cfm flow capacity, 1 coupling
BB30-CO	30 cfm Breather Box®, 48 cfm flow capacity, 2 couplings
BB30-CO3	30 cfm Breather Box®, 48 cfm flow capacity, 3 couplings
BB50-CO	50 cfm Breather Box®, 79 cfm flow capacity, 4 couplings
BB75-CO	75 cfm Breather Box®, 97 cfm flow capacity, 6 couplings
BB100-CO	100 cfm Breather Box®, 123 cfm flow capacity, 4 couplings
BB100-CO6	100 cfm Breather Box®, 123 cfm flow capacity, 6 couplings
BB100-CO8	100 cfm Breather Box®, 123 cfm flow capacity, 8 couplings
BB150-CO	150 cfm Breather Box®, 203 cfm flow capacity, three 1/2" industrial interchange couplings Requires use of a Point of Attachment (pages 17-18)
<i>International Power Source - Call Customer Service for additional information</i>	
BB30-CO220	30 cfm Breather Box®, 48 cfm flow capacity, 2 couplings, 220 VAC 50 Hz, specify cord
BB50-CO220	50 cfm Breather Box®, 79 cfm flow capacity, 4 couplings, 220 VAC 50 Hz, specify cord



Specify 1/4" Hansen style or Schrader style respirator couplings when ordering. Other couplings available for an additional charge.



Breather Box® with 4 Independent Regulators  
BB50-CO4R

### Portable Grade-D Breathing Air Filtration with CO/O<sub>2</sub> Monitor

Item No.	Description
BB30-COO2	30 cfm Breather Box®, 48 cfm flow capacity, 2 couplings
BB50-COO2	50 cfm Breather Box®, 79 cfm flow capacity, 4 couplings
BB100-COO2	100 cfm Breather Box®, 123 cfm flow capacity, 4 couplings

### Portable Grade-D Breathing Air Filtration with CO Monitor and Independent Regulators

Item No.	Description
BB30-CO2R	30 cfm Breather Box®, 48 cfm flow capacity, 2 independent regulators & pressure gauges, 2 couplings
BB50-CO4R	50 cfm Breather Box®, 79 cfm flow capacity, 4 independent regulators & pressure gauges, 4 couplings
BB100-CO4R	100 cfm Breather Box®, 123 cfm flow capacity, 4 independent regulators & pressure gauges, 4 couplings

### Portable Grade-D Air Filtration with Intrinsically Safe (IS) CO Monitor

Item No.	Description
BB15-COIS	15 cfm Breather Box®, Intrinsically Safe, 48 cfm flow capacity, 1 coupling
BB30-COIS	30 cfm Breather Box®, Intrinsically Safe, 48 cfm flow capacity, 3 couplings
BB50-COIS	50 cfm Breather Box®, Intrinsically Safe, 79 cfm flow capacity, 4 couplings
BB100-COIS	100 cfm Breather Box®, Intrinsically Safe, 123 cfm flow capacity, 4 couplings



Remote Alarms  
Available on Page 20

Contact  
Customer Service  
for custom options

Approved for Class I, Division 1, Groups C and D environments (9 VDC operation only)

Don't forget to order replacement filters and monitor calibration kit!  
See pages 21-22 for ordering information

## Panel Mounted Grade-D Breathing Air Filtration

The steel panel mounted system is designed to filter incoming air from a compressor to provide supplied air respirator users with Grade-D quality air while continuously monitoring for Carbon Monoxide (CO). CO/O<sub>2</sub> and Intrinsically Safe Models are also available.



### Key Details:

- Carbon Monoxide (CO) Monitor
- CO/O<sub>2</sub> Monitor Available
- Intrinsically Safe CO or CO/O<sub>2</sub> Monitors Available
- Three Stage Filtration (99.99% efficient at 0.01 micron particle size)
- Filter Change Indicators on All Filters
- Incoming Air Plug 1/2" Industrial Interchange
- 2 Automatic Drains with Discharge Tubes
- Remote Alarm Receptacle
- External Warning Lights and Alarm
- Steel Wall Panel, Powder Coated White





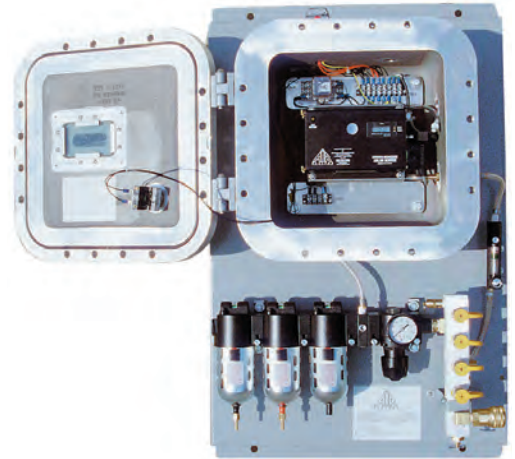
## BB30-COPM

30 cfm Steel Panel  
48 cfm flow capacity  
2 couplings



## BB100-COPM

100 cfm Steel Panel  
123 cfm flow capacity  
4 couplings



**Custom Panels  
Available Including  
Explosion-Proof  
Enclosures**

### Panel Mounted Grade-D Air Filtration with CO Monitor

Item No.	Description
BB15-COPM	15 cfm Grade-D breathing air panel, 48 cfm flow capacity, 1 coupling
BB30-COPM	30 cfm Grade-D breathing air panel, 48 cfm flow capacity, 2 couplings
BB50-COPM	50 cfm Grade-D breathing air panel, 79 cfm flow capacity, 4 couplings
BB100-COPM	100 cfm Grade-D breathing air panel, 123 cfm flow capacity, 4 couplings 6 or 8 couplings available for additional charge
BB150-COPM	150 cfm Grade-D breathing air panel, 203 cfm flow capacity, NPT outlet
BB250-COPM	250 cfm Grade-D breathing air panel, 277 cfm flow capacity, NPT outlet

NPT outlet available on all panel mounted filtration systems. Contact Customer Service for custom options and ordering information.

Specify 1/4" Hansen style or Schrader style respirator couplings when ordering. Other couplings available for an additional charge.

### Panel Mounted Grade-D Air Filtration with CO/O<sub>2</sub> Monitor

Item No.	Description
BB30-CO2PM	30 cfm Grade-D breathing air panel, 48 cfm flow capacity, 2 couplings
BB50-CO2PM	50 cfm Grade-D breathing air panel, 79 cfm flow capacity, 4 couplings
BB100CO2PM	100 cfm Grade-D breathing air panel, 123 cfm flow capacity, 4 couplings

### Panel Mounted Grade-D Air Filtration with Intrinsically Safe CO Monitor

Item No.	Description
BB15COPMIS	15 cfm Grade-D breathing air panel, 48 cfm flow capacity, 1 coupling
BB30COPMIS	30 cfm Grade-D breathing air panel, 48 cfm flow capacity, 2 couplings
BB50COPMIS	50 cfm Grade-D breathing air panel, 79 cfm flow capacity, 4 couplings
B100COPMIS	100 cfm Grade-D breathing air panel, 123 cfm flow capacity, 4 couplings

Remote Alarms  
Available on Page 20



Approved for Class I, Division 1, Groups C and D environments (9 VDC operation only)

**Don't forget to order replacement filters and monitor calibration kit!  
See pages 21-22 for ordering information**

Custom large Grade-D filtration panels available from 250 cfm to 3000 cfm. Contact Customer Service for information.



## B700-COPM

# The Blast-Air™ Cart

Designed for the Commercial Sandblasting, Paint and Coatings Industry

*Ideal for the Rental Market*

The Blast-Air™ Cart features two 300 cfm rear pre-filters with auto-drains to remove large amounts of oil and water discharged from a compressor before it enters the Breather Box®.

The pre-filters will extend the Breather Box® filter life and reduce downtime and maintenance costs. Air is supplied to the cart from mobile or stationary air compressors.

## Key Details:

- Carbon Monoxide (CO) Monitor
- CO/O<sub>2</sub> Monitor Available
- Intrinsically Safe CO or CO/O<sub>2</sub> Monitors Available
- Filter Change Indicators on All Filters
- Incoming Air Plug ½" Industrial Interchange
- Three Stage Filtration (99.99% efficient at 0.01 micron particle size)
- Two 300 cfm Rear Pre-Filters with Auto-Drains
- Remote Alarm Jack
- External Warning Lights and Alarm
- Steel Cart with Pneumatic Tires



**Blast-Air™ Cart  
BA-100**



Two 300 cfm rear pre-filters with auto-drains prolongs the life of the Breather Box® filters, reduces equipment damage, and lowers maintenance costs.



**BA-50**  
50 cfm Breather Box®  
79 cfm flow capacity



**BA-100**  
100 cfm Breather Box®  
123 cfm flow capacity



**BA-1CAA**  
Cart only - retrofit for existing Breather Box®

## Blast-Air™ Cart Featuring The Breather Box® with CO Monitor

Item No.	Description
BA-30	30 cfm Blast-Air™ Cart, 48 cfm flow capacity, 2 couplings
BA-50	50 cfm Blast-Air™ Cart, 79 cfm flow capacity, 4 couplings
BA-100	100 cfm Blast-Air™ Cart, 123 cfm flow capacity, 4 couplings
BA-100-6	100 cfm Blast-Air™ Cart, 123 cfm flow capacity, 6 couplings
BA-100-8	100 cfm Blast-Air™ Cart, 123 cfm flow capacity, 8 couplings
BA-1CAA	Cart only with twin rear filters & connect hose
<b>Replacement Filters</b>	
BB30-FK	Filter kit for BB30 series models - 1 ea. "A", "C", and "D" replacement filters
BB50-FK	Filter kit for BB50 series models - 1 ea. "A", "C", and "D" replacement filters
BB100-FK	Filter kit for BB100 series models - 1 ea. "A", "C", and "D" replacement filters
BB100-A	Replacement prefilter for Blast-Air™ Cart (each) - requires 2 filters

Individual filters available on page 21

Cart Dims: 40" H x 20" W x 19" D

Cart Weight: 42 lbs

**Remote Alarms**  
Available on Page 20

Optional CSA certified intrinsically safe CO or CO/O<sub>2</sub> Monitor Available

Specify 1/4" Hansen style or Schrader style respirator couplings when ordering. Other couplings available for an additional charge.

**Don't forget to order a monitor calibration kit! See page 22**



# Portable Carbon Monoxide (CO) Monitors



Portable CO Monitor  
CO91-14LAC



A portable airline monitor connects easily to a breathing air filtration source or ambient air pumps and monitors the air for CO or CO/O<sub>2</sub>, depending on the model. An audible alarm (95 dBA) and light will activate when the CO level exceeds 10 ppm (5 ppm Canadian). Used in the closed and upright position, an external alarm and lights signal the user if there are dangerous CO or CO/O<sub>2</sub> levels.

## Portable CO and CO/O<sub>2</sub> Monitors

Item No.	Description
CO91-14LAC	Portable CO monitor, 150 psi maximum inlet pressure, and 5' hose
CO91-14HAC	Portable CO monitor, rated for 5000 psi maximum pressure, includes 5000 psi regulator, and 5' hose
CO2-91LAC	Portable CO/O <sub>2</sub> monitor, 9 VDC and/or 115 VAC, 5' hose, 150 psi maximum inlet pressure

## Applications

- Filtration Systems
- Ambient Air Pumps
- Equipment Rentals
- Retrofit Portable Compressors

## Portable CO Monitors - Intrinsically Safe for Hazardous Locations

Item No.	Description
CO91-14IS	Portable Intrinsically Safe CO monitor, 9 VDC only, audible alarm, visual lights, flow meter, connect hose, LCD display
CO291-14IS	Portable Intrinsically Safe CO/O <sub>2</sub> monitor, 9 VDC only, audible alarm, visual lights, flow meter, connect hose, LCD display

Remote Alarms  
Available on Page 20



Approved for Class I, Division 1, Groups C and D environments.  
9 VDC operation only.

## Key Details:

- Includes 1/4" industrial interchange coupling supplied on 5' hose
- Standard alarm (95 dBA)
- High intensity alarm (120 dBA) available for an additional charge
- Standard alarm jack allows for connection to remote alarm devices
- Operates on 9 volt batteries, 8-16 VDC, or 115 VAC
- Use in the closed position

**CO Monitor Calibration  
Kits on page 12**



# Panel Mounted Carbon Monoxide (CO) Monitors

for Fixed System Continuous Sampling of CO and/or CO/O<sub>2</sub> levels



The carbon monoxide (CO) airline monitor panel can be ordered to retrofit any existing Grade-D breathing air system, CO and Oxygen (O<sub>2</sub>) monitor also available. Standard units are supplied with high intensity audible alarm (120 dBA) and a 115 VAC power cord. All units are powder coated steel and ready for wall mounting. Intrinsically safe versions available - CSA approved, 9 VDC power only. **Supplied Grade-D air filtration is required to operate the monitor.**

### Key Details:

- Visual Air Flow Meter to Monitor
- High Intensity Audible Alarm (120 dBA)
- Carbon Monoxide Monitor
- 115 VAC Remote Alarm Connections
- 115 VAC Power Cord
- 230 VAC Optional

### Also Available:


- Intrinsically Safe Models
- Remote Audible and Visual Alarms
- CO/O<sub>2</sub> Monitor



### Panel Mounted Airline Monitors for Grade-D Air Filtration

Item No.	Description
CO-91PM	Panel mounted CO monitor, 9 VDC or 115 VAC power, audible alarm, visual lights, flow meter, quick connect calibration fitting, LCD display
CO2-91PM	Panel mounted CO and O <sub>2</sub> monitor, 9 VDC or 115 VAC power, audible alarm, visual lights, flow meter, quick connect calibration fitting, LCD display
CO-91PMIS	Panel mounted intrinsically safe CO monitor, 9 VDC only, approved for Class I, Division 1, Groups C and D environments, audible alarm, visual lights, flow meter, quick connect calibration fitting, LCD display, CSA certified

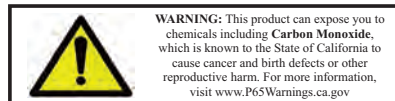
**Remote Alarms Available on Page 20**

 **Approved for Class I, Division 1, Groups C and D environments. 9 VDC operation only.**

### CO Monitor Calibration Kit - Small Cylinders

Item No.	Description
BBK-20	Calibration kit for CO monitor - 20 ppm CO, zero air, regulator, tubing, and hard case, 17 liter size disposable cylinders
BBK-10	Calibration kit for CO monitor - 10 ppm CO, zero air, regulator, tubing, and hard case, 17 liter size disposable cylinders, for Canadian CO monitor settings

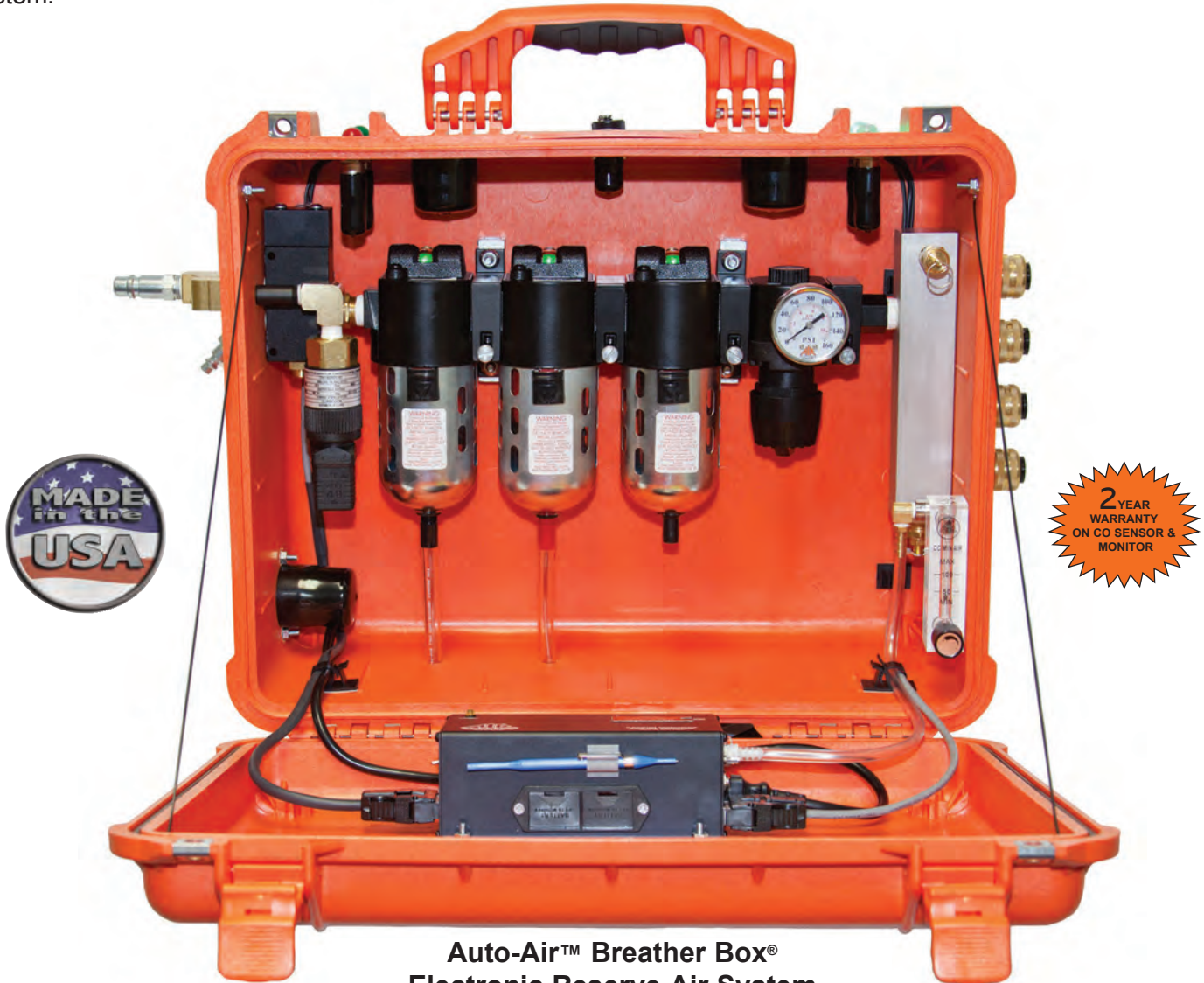
Kit details and components available on page 22



# The Auto-Air™ Breather Box®

## Fully Automatic Reserve Air System

The Auto-Air™ filtration system was developed to provide Grade-D breathing air with full automatic reserve air for use in Immediately Dangerous to Life or Health (IDLH) work locations. In the event of electrical failure or reduced pressure from the primary air source, reserve air activation automatically switches to the reserve air cylinder(s). An alarm signals the worker(s) the primary air system has failed and switched to the back-up air system.



**Auto-Air™ Breather Box®**  
**Electronic Reserve Air System**  
**BB50-COAA**

### Key Details:

- Primary Air Line, ½" Inlet - Hansen 5000 Style Fitting
- Reserve Air Line, ¼" Inlet - Hansen 3000 Style Fitting
- Carbon Monoxide (CO) Monitor
- **CO/O<sub>2</sub> Monitors also Available**
- **Intrinsically Safe CO/O<sub>2</sub> Monitors also Available on Pneumatic Models**
- Filter Change Indicators on All Filters
- 2 Automatic Drains with Discharge Tubes
- Remote Alarm Jack Receptacle (Remote Alarm Optional)
- External Warning Lights and Alarm
- Reserve Cylinders Sold Separately

**Always size the reserve air system to allow an adequate safety factor for all workers to egress the environment.**

**Auto-Air™  
Breather Box®  
Pneumatic Reserve  
Air System  
BB50-COAAP**



**Primary  
Air Line**  
**Auto-Air™  
Breather Box®  
Air Flow**  
**Reserve  
Air Line**



## Auto-Air™ Breather Box® with CO Monitor Electronic Reserve Air System

Item No.	Description
BB30-COAA	30 cfm Auto-Air™ Breather Box®, 115 VAC, 48 cfm flow capacity, 2 or 3 couplings
BB50-COAA	50 cfm Auto-Air™ Breather Box®, 115 VAC, 79 cfm flow capacity, 4 couplings
BB100-COAA	100 cfm Auto-Air™ Breather Box®, 115 VAC, 123 cfm flow capacity, 4 couplings

## Also Available:

- CO/O<sub>2</sub> Monitor
- Panel Mounted
- Intrinsically Safe Models

## Auto-Air™ Breather Box® - with Intrinsically Safe (IS) CO Monitor Pneumatic Reserve Air System

Item No.	Description
BB30-COAAP	30 cfm Intrinsically Safe Auto-Air™ Breather Box®, 48 cfm flow capacity, 2 or 3 couplings
BB50-COAAP	50 cfm Intrinsically Safe Auto-Air™ Breather Box®, 79 cfm flow capacity, 4 couplings
BB100COAAP	100 cfm Intrinsically Safe Auto-Air™ Breather Box®, 123 cfm flow capacity, 4 couplings



Approved for Class I, Division 1, Groups C and D environments (9 VDC operation only)



## Reserve Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved
AC-300	300 cf CGA-346, 2400 psi, steel, DOT/TC approved
AC-444	444 cf CGA-347, 4500 psi, steel, DOT/TC/ISO/UN approved

**Remote Alarms  
Available on Page 20**

**Specify 1/4" Hansen style or Schrader style  
respirator couplings when ordering. Other  
couplings available for an additional charge.**

**Don't forget to order replacement  
filters and monitor calibration kit!  
See pages 21-22**



## NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments.

Our Auto-Air™ feature does not replace the NIOSH requirement. Some work environments may require a 30 minute (or longer) airline escape method to safely egress the hazardous area. This situation would require the use of an Auto-Air™ Breather Box® or Auto-Air™ Cart with reserve air cylinder.

## The Auto-Air™ Cart

The Auto-Air™ Cart contains an Auto-Air™ Breather Box® to provide Grade-D breathing air while continuously monitoring for Carbon Monoxide (CO). In the event of electrical failure or air pressure failure, the reserve air activation automatically switches to the reserve air cylinder(s). A pneumatic or electronic reserve air system consisting of twin air cylinders provides back-up air. Select the cart size based on the desired amount of users and reserve air needed to allow workers to safely egress the work area in an emergency. **Carts operate with 2216 to 5000 psi cylinders (sold separately).**

### Key Details:

- Primary Air Line, ½" Inlet - Hansen 5000 Style Fitting
- Reserve Air Line, ¼" Inlet - Hansen 3000 Style Fitting
- Carbon Monoxide (CO) Monitor
- **CO/O<sub>2</sub> Monitors also Available**
- **Intrinsically Safe CO/O<sub>2</sub> Monitors also Available on Pneumatic Models**
- Filter Change Indicators on All Filters
- 2 Automatic Drains with Discharge Tubes
- Remote Alarm Jack Receptacle (Remote Alarm Optional)
- External Warning Lights and Alarm
- Reserve Cylinders Sold Separately
- Steel Cart
- Storage Box with Latch
- Pneumatic Tires



Large Cylinder Auto-Air™ Cart  
Pneumatic Reserve Air System  
BB100-HTAAP



Small Cylinder Auto-Air™ Cart  
Electric Reserve Air System  
BB50-HTAA

# The Auto-Air™ Cart Cart Mounted Automatic Reserve Air System

## Applications

- Confined Space Entry
- Refineries
- Hazardous Material Handling
- Nuclear Facilities
- Fuel Cell Maintenance
- Tank Entry and Cleaning



**Small Cylinder Carts (up to 4500 PSI)**  
Holds Two 60 or 87 cf Air Cylinders

**Large Cylinder Carts (up to 5000 PSI)**  
Holds Two 300, 444 or 472 cf Air Cylinders  
**Order Cylinders Separately**

## Auto-Air™ Cart with CO Monitor Electronic Reserve Air System

Item No.	Description
<b>Small Cylinder Carts - 115 VAC Electronic Reserve Air System</b>	
BB30-HTAA	30 cfm Auto-Air™ Cart, CO monitor, 115 VAC, 48 cfm flow capacity, 2 couplings
BB50-HTAA	50 cfm Auto-Air™ Cart, CO monitor, 115 VAC, 79 cfm flow capacity, 4 couplings
BB100HTAA	100 cfm Auto-Air™ Cart, CO monitor, 115 VAC, 123 cfm flow capacity, 4 couplings
<b>Large Cylinder Cart - 115 VAC Electronic Reserve Air System</b>	
BB100-23AA	100 cfm Auto-Air™ Cart, CO monitor, 115 VAC, 123 cfm flow capacity, 4 couplings

Specify 1/4" Hansen style or Schrader style respirator couplings when ordering. Other couplings available for an additional charge.

Additional outlets available

## Auto-Air™ Cart - with Intrinsically Safe (IS) CO Monitor Pneumatic Reserve Air System

Item No.	Description
<b>Small Cylinder Carts - Pneumatic Reserve Air System</b>	
BB30-HTAAP	30 cfm Auto-Air™ Cart, intrinsically safe CO monitor, 48 cfm flow capacity, 2 couplings
BB50-HTAAP	50 cfm Auto-Air™ Cart, intrinsically safe CO monitor, 79 cfm flow capacity, 4 couplings
BB100HTAAP	100 cfm Auto-Air™ Cart, intrinsically safe CO monitor, 123 cfm flow capacity, 4 couplings
<b>Large Cylinder Cart - Pneumatic Reserve Air System</b>	
B10023HTAP	100 cfm Auto-Air™ Cart, intrinsically safe CO monitor, 123 cfm flow capacity, 4 couplings



Remote Alarms Available on Page 20



Approved for Class I, Division 1, Groups C and D environments (9 VDC operation only)

## Reserve Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved
AC-300	300 cf CGA-346, 2400 psi, steel, DOT/TC approved
AC-444	444 cf CGA-347, 4500 psi, steel, DOT/TC/ISO/UN approved
AC-472	472 cf CGA-347, 5000 psi, steel, DOT/TC/ISO/UN approved

Don't forget to order replacement filters and monitor calibration kit!  
See pages 21-22

**Contact Customer Service for CO/O<sub>2</sub> monitor part numbers or custom options.**

Engineering drawings and specifications will be provided for custom options.

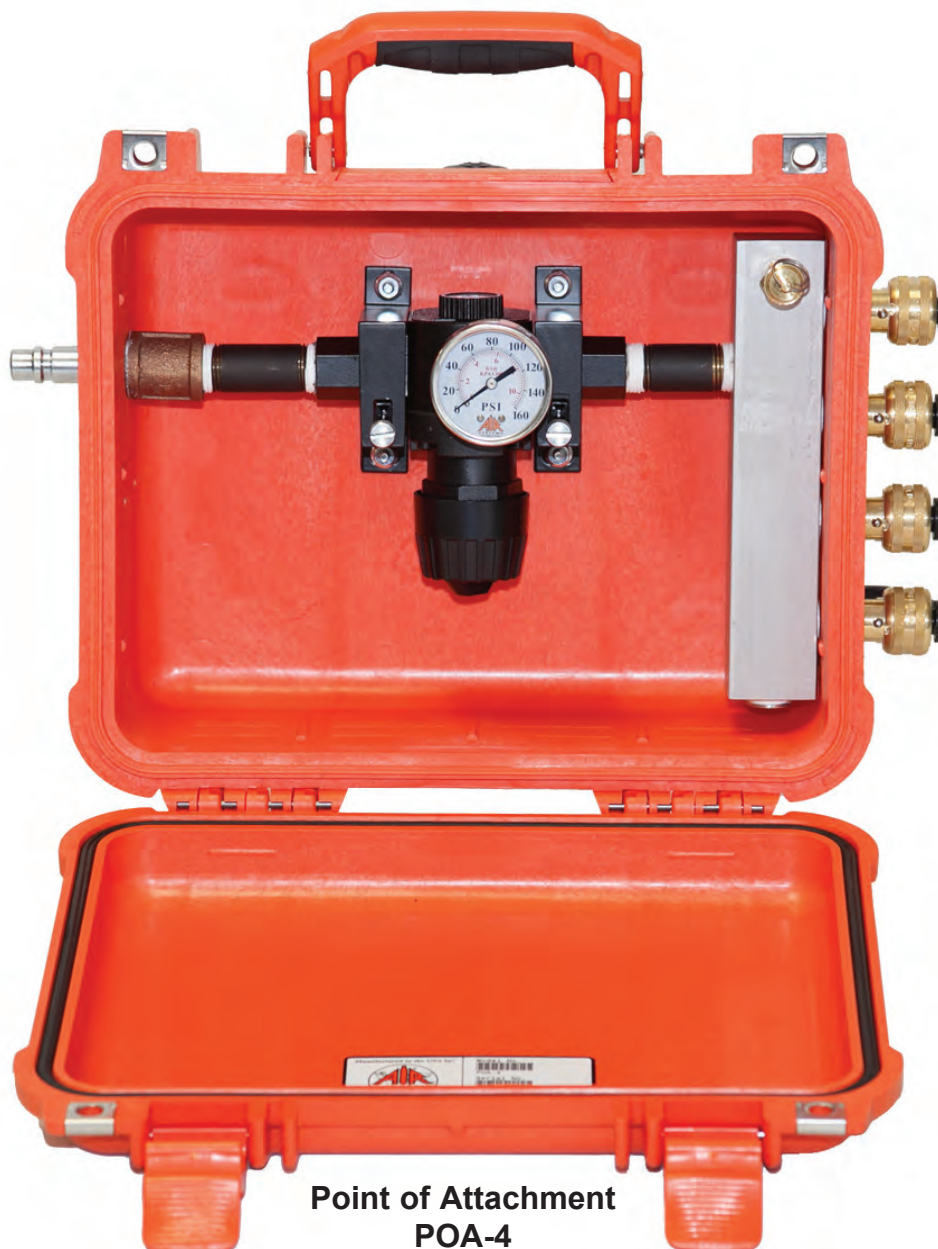
Always size the reserve air system to allow an adequate safety factor for all workers to egress the environment.



# Point of Attachment (POA)

Also Known as a Remote Air Manifold

Meets NIOSH requirements of the 87-116 (1989) document for point of attachment

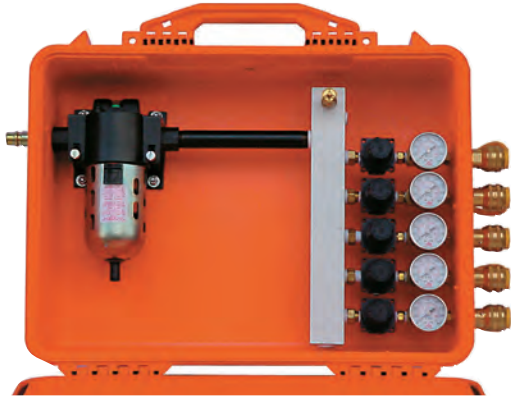


**Point of Attachment  
POA-4**



### Key Details:

- Solid Aluminum Manifold
- Adjustable Regulator
- Safety Relief Valve
- Pressure Gauge
- Intrinsically Safe
- User Specified Respirator Couplings with Dust Caps
- Incoming Air Plug 1/2" Industrial Interchange Standard
- NIOSH Compliant



**5 Independent Regulator  
Point of Attachment  
POA-5RF**



**4 Independent Regulator POA  
with Low Pressure Alarm  
BBM-4LF120**



**Wall Mounted Point of Attachment  
POA-4WM**

A Point of Attachment (POA) consists of a regulator, pressure gauge, safety relief valve, and fittings matching the respirator being used. A POA box can be located any distance from the Grade-D filtration Breather Box<sup>®</sup> or filtration panel. The remote air manifold (POA) assembly becomes the NIOSH attachment point for the respirator(s) and is now limited to a maximum 300 feet of breathing air hose from the air outlet fitting on the remote POA box. POA's may be used in wet and/or hazardous locations.

## Portable Point of Attachments (POA's)

Item No.	Description
POA-2	Standard POA Box - 2 couplings
POA-4	Standard POA Box - 4 couplings
POA-4R	POA Box with 4 independent regulators & couplings
POA-4F	POA Box with final particulate filter & 4 couplings
POA-5RF	POA Box with final particulate filter and 5 independent regulators
BBM-4LF	NRC POA Box, final particulate filter, 9 volt DC, 4 independent regulators, low pressure alarm, lights, and clear window. Meets NRC Guidelines
BBM-4LF120	NRC POA Box, final particulate filter, 115 VAC, 4 independent regulators, low pressure alarm, lights. Meets NRC Guidelines
BB50-A	Particulate filter for POA4F, POA-5RF, BBM-4LF, and BBM-4LF120

## Custom POA Options:

- Clear view window over gauge
- Multiple filters and independent regulators
- Stainless steel or aluminum panels
- Low pressure warning alarms
- Models available for 1-8 workers
- High pressure applications



Contact Customer Service to order custom POA's

## Wall Mounted Point of Attachments (POA's)

Item No.	Description
POA-1WM	Wall mounted POA manifold - 1 coupling
POA-2WM	Wall mounted POA manifold - 2 couplings
POA-4WM	Wall mounted POA manifold - 4 couplings
POA-4FWM	Wall mounted POA manifold with final particulate filter & 4 couplings

Contact Customer Service to order custom wall mounted POA's

Specify 1/4" Hansen style or Schrader style respirator couplings when ordering. Other couplings available for an additional charge.

## Typical Point of Attachment (POA) Set-up



## THE COOL-BOX™

### Portable Cooling Air Distribution Manifold



# Heat Stress Prevention

#### Key Details:

- Low cost cool breathing air
- 50°F output air temperature with input up to 180°F
- Easy to use and maintain - manual drain provided
- Aluminum jacketed tubing, USDA approved
- 20 lbs. of ice provides up to 4 hours of cooling
- NIOSH point-of-attachment and cooling in one system
- Operates with any airline mask or hood style respirator, including level “A” chemical suits & abrasive blasting hoods
- Low pressure **COOL-BOX™** for use with ambient air pumps, 0-20 psi maximum
- Standard **COOL-BOX™** for all airline respirators 20-120 psi supplied with Grade-D air



**Just add ice for immediate respirator air cooling!**

#### Applications

- Painting or Blasting
- Confined Space
- Utility Companies
- Maintenance
- Construction
- Production
- Level A Hazmat Suits

#### THE COOL-BOX™

Item No.	Description
BACB-196	Standard <b>COOL-BOX™</b> with ¼" Hansen or Schrader style fittings - rated to 125 psi maximum inlet pressure
BACB-196LP	Low Pressure <b>COOL-BOX™</b> with ¼" Hansen or Schrader style fittings. Designed specifically for use with ambient air pumps (0-20 psi maximum), low pressure air pump conversion kit (BACB-196K) included

# Remote Audio / Visual Alarms

Remote alarms act as a local warning device.

Remote alarms duplicate local alarms found on primary equipment, such as a Breather Box® or air filtration panel. The alarm is brought into the remote work space and alerts workers if a system fault alarm occurs. Depending on the alarm, the alert can be audible, visual, or both.

## Models Available:

- Standard audible alarm, 95 dBA
- High intensity audible, 120 dBA
- Audible and visual combination units
- Explosion-proof alarms
- Wall mount alarms
- Pneumatic alarms



Breather Box®



50-ALMST



ALMSTH120



EXALM-HL

## Remote Alarms for Breather Box® Models, 9-12 VDC

Item No.	Description
50-ALM	Audible alarm, 95 dBA, includes 50' cable, 9-12 VDC
50-ALMH	High intensity audible alarm, 120 dBA, includes 50' cable, 9-12 VDC
50-ALMST	Audible alarm, mounted visual strobe and guard, 50' cable, 9-12 VDC
50-ALMSTH	High intensity audible alarm, 120 dBA, with mounted visual strobe and guard, includes 50' cable, 9-12 VDC

Additional alarm cable lengths available contact Customer Service

## Remote Alarms for Panel Mounted Filtration Models, 115 VDC

Item No.	Description
ALMSTH120	Remote audible/visual strobe with conduit box, 88 dBA, 120 VAC, no cable
EXAL	Explosion-proof remote audible alarm, 110 dBA, 120 VAC, no cable
EXVST	Explosion-proof strobe light, 120 VAC, no cable
EXALM-HL	Explosion-Proof audible and visual alarm - red lens. Other lens colors available. User settable voltage 115 VAC / 60 Hz, 230 VAC / 50 Hz, or 20-28 VDC. No cable
EXALM-H	Explosion-Proof audible alarm only. User settable voltage 115 VAC / 60 Hz, 230 VAC / 50 Hz, or 20-28 VDC. No cable

## Remote Alarms for Auto-Air™ Breather Box® Models, 9-12 VDC

Item No.	Description
50-ALMAA	Dual audible alarm, 95 dBA, includes 50' cable, 9-12 VDC
50-ALMSTAA	Dual audible alarm with mounted visual strobe, includes 50' cable, 9-12 VDC
50-ALMP	Remote adjustable audible alarm, 90-120 dBA, pneumatic horn, includes 50' hose

Additional alarm cable lengths available contact Customer Service

Contact Customer Service to match proper alarm to Breather Box® model

When ordering remote alarms, please include the serial number of the Breather Box® or Panel to verify alarm compatibility.

## Replacement Filters

### for Breather Boxes® and Filtration Panels

In order to maintain Grade-D air quality, filters must be changed on a regular basis.

Note: Coalescing Filter element (C Filter) may have red or white covering material



BB15 & BB30 Series Filters

#### BB15 & BB30 Series

Item No.	Description
BB30-FK	Filter kit for BB15 & BB30 series models Contains 1 ea. "A", "C", and "D" replacement filters
BB30-A	Particulate filter - Stage 1
BB30-C	Coalescing filter - Stage 2
BB30-D	Charcoal filter - Stage 3

**For BB15 Series, consult Customer Service for correct filter part number. Please provide serial number and manufacturing date when contacting Customer Service.**



BB50 Series Filters

#### BB50 Series

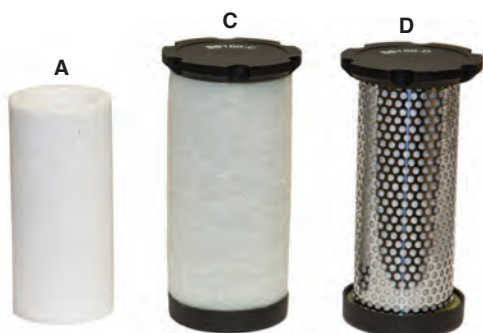
Item No.	Description
BB50-FK	Filter kit for BB50 series models Contains 1 ea. "A", "C", and "D" replacement filters
BB50-A	Particulate filter - Stage 1
BB50-C	Coalescing filter - Stage 2
BB50-D	Charcoal filter - Stage 3



BB75 Series Filters

#### BB75 Series

Item No.	Description
BB75-FK	Filter kit for BB75 series models Contains 1 ea. "A", "C", and "D" replacement filters
BB75-A	Particulate filter - Stage 1
BB75-C	Coalescing filter - Stage 2
BB75-D	Charcoal filter - Stage 3



BB100 Series Filters

#### BB100 & BB150 Series

Item No.	Description
BB100-FK	Filter kit for BB100 series models Contains 1 ea. "A", "C", and "D" replacement filters
BB100-A	Particulate filter - Stage 1
BB100-C	Coalescing filter - Stage 2
BB100-D	Charcoal filter - Stage 3



**For replacement filters not listed, contact Customer Service. Please provide model and serial number.**

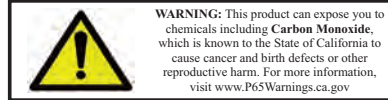
## Airline Monitor Calibration Kits, Accessories & Sensors



BBK-20

### CO Monitor Calibration Kit - Small Cylinders

Item No.	Description
BBK-20	CO monitor calibration kit - 20 ppm CO, zero air, regulator, tubing, and hard case. 17 liter size disposable cylinders
BBK-10	CO monitor calibration kit - 10 ppm CO, zero air, regulator, tubing, and hard case. 17 liter size disposable cylinders. For Canadian CO monitor settings.



### CO Monitor Calibration Kit - Large Cylinders

Item No.	Description
BBK-20103	Calibration Kit - 20 ppm CO gas, zero air, preset regulator, tubing and case, 103 liter size disposable cylinders
BBK-10103	Calibration Kit - 10 ppm CO gas, zero air, preset regulator, tubing and case, 103 liter size disposable cylinders, for Canadian CO monitor settings

**Calibration gasses are considered hazardous material and incur a hazmat fee when shipping**

### Replacement Cylinders and Regulators

Item No.	Description
<b>17 Liter Replacement Disposable Cylinders</b>	
BBG-00	Zero air, 17 liter cylinder
BBG-10	10 ppm CO - for Canadian calibration requirements, 17 liter cylinder
BBG-20	20 ppm CO - for US and other countries, 17 liter cylinder
BBG-O2	Oxygen sensor test gas, 20.9% in nitrogen, 17 liter cylinder
BBK-R17	Calibration regulator for 17 liter cylinders, preset flow at 300 cc
<b>103 Liter Replacement Disposable Cylinders</b>	
BBG-00103	Zero air, 103 liter cylinder
BBG-10103	10 ppm CO - for Canadian requirements, 103 liter cylinder
BBG-20103	20 ppm CO - for US and other countries, 103 liter cylinder
BBG-O2103	Oxygen sensor test gas, 20.9% in nitrogen, 103 liter cylinder
BBK-R103	Calibration regulator and gauge for 103 liter cylinders, preset flow at 300 cc



BBK-20103



BBG-20



CO-91NS



CO2-O2

### Replacement Sensors for Airline Monitors

Item No.	Description
CO-91NS	New CO sensor for CO series monitors - 2 year warranty
CO2-O2	New Oxygen sensor for CO2 series monitors - 1 year warranty



## How Often Should I Calibrate The Monitor?

Air Systems recommends calibrating our CO and CO/O<sub>2</sub> Series breathing air monitors monthly. If monthly calibrations are not followed, the monitor should be recalibrated at least every six months from the last calibration prior to use.

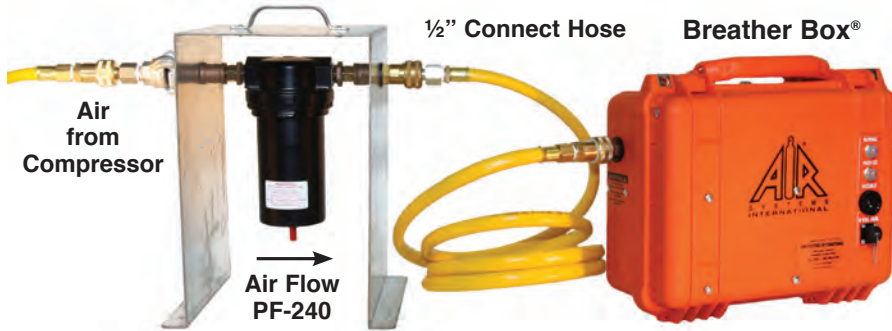
**Zero Air** - When calibrating the monitor, Zero Air is used to achieve a true zero reading on the monitor before using the Carbon Monoxide (CO) test gas. Zero air removes all background interference gasses.

**Carbon Monoxide (CO)** - Use only 10-20 ppm CO gas for calibration. Using a higher CO concentration may decrease accuracy at lower scale readings. Note: 10 ppm gas must be used to satisfy Canadian calibration requirements.

**Oxygen (O<sub>2</sub>)** - For CO/ O<sub>2</sub> monitor, use only 20.9% oxygen in nitrogen gas for calibration.

# Portable Prefilter

The portable prefilter with automatic drain is designed to remove large amounts of oil and water discharged from a compressor before the air enters the Breather Box® filters. A prefilter will extend the Breather Box® filter's life, reduce maintenance downtime, and costs. Ideal for use in humid climates.



## Key Details:

- High capacity bulk filtration and moisture removal
- Automatic drain assembly
- Galvanized steel frame with carry handle
- Supplied with 1/2" Chicago fitting on inlet, 1/2" Industrial Interchange socket on outlet
- Use after compressor and before Grade-D Air Filtration Breather Box®

## Portable Prefilter

Item No.	Description
PF-140	High capacity portable compressor prefilter with steel stand, 140 cfm capacity, 1/2" Chicago inlet, and 1/2" Hansen 5000 style socket outlet, with auto drain
PF-240	High capacity portable compressor prefilter with steel stand, 240 cfm capacity, 1/2" Chicago inlet, and 1/2" Hansen 5000 style socket outlet, with auto drain
BB100-A	Replacement particulate filter for PF-140 and PF-240

## Breathing Air Hose & Accessories



### 3/8" Breathing Air Hose - Black

Item No.	Description
H-6-3	6 foot length - 1/4" Hansen style fittings
H-10-3	10 foot length - 1/4" Hansen style fittings
H-25-3	25 foot length - 1/4" Hansen style fittings
H-50-3	50 foot length - 1/4" Hansen style fittings
H-100-3	100 foot length - 1/4" Hansen style fittings
H-300-3	300 foot length - 1/4" Hansen style fittings



### 1/2" Breathing Air Hose - Yellow

Item No.	Description
H-6-5	6 foot length - 1/2" Hansen style fittings
H-10-5	10 foot length - 1/2" Hansen style fittings
H-25-5	25 foot length - 1/2" Hansen style fittings
H-50-5	50 foot length - 1/2" Hansen style fittings
H-100-5	100 foot length - 1/2" Hansen style fittings
H-300-5	300 foot length - 1/2" Hansen style fittings

All hose lengths can be custom ordered or include other fitting types for an additional charge.

Contact Customer Service for a quote.

### 3/4" Breathing Air Hose - Red

Item No.	Description
H-25-12	25 foot length - 1/2" Hansen style fittings
H-50-12	50 foot length - 1/2" Hansen style fittings
H-100-12	100 foot length - 1/2" Hansen style fittings



### Whip Check Air Hose Safety Cable

Item No.	Description
ASWHIPLINE	Hose to Hose - fits OD 1/2" to 1 1/4" hose (20" length)
ASWHIPLN10	Hose to Hose - fits OD 1" to 2 1/2" hose (28" length)
ASWHIPLN15	Hose to Hose - fits OD 1 1/2" to 3" hose (38" length)
ASWHIPTL20	Hose to Tool - fits OD 1/2" to 1 1/4" hose (20" length)

# Breathing Air Hose Reels



**HR-100M**  
Manual Reel



**HR-500MC**  
Manual Cart



**HR-50**  
Automatic Reel

## 3/8" or 1/2" Breathing Air Hose Reels Manual Rewind

Item No.	Description
<b>HR-50M</b>	Holds 50 feet of 3/8" ID hose or 25 feet of 1/2" ID hose
<b>HR-100M</b>	Holds 100 feet of 3/8" ID hose or 50 feet of 1/2" ID hose
<b>HR-300M</b>	Holds 300 feet of 3/8" ID hose or 150 feet of 1/2" ID hose
<b>HR-400M</b>	Holds 400 feet of 3/8" ID hose or 200 feet of 1/2" ID hose
<b>HR-550M</b>	Holds 550 feet of 3/8" ID hose or 300 feet of 1/2" ID hose
<b>Manual Hose Reel Cart</b>	
<b>HR-500MC</b>	Cart with fold down handle and roller wheels - holds 450 feet of 3/8" or 300 feet of 1/2" ID hose

**Breathing air hose  
ordered separately  
See page 23.**

## 3/8" or 1/2" Breathing Air Hose Reels Automatic Rewind

Item No.	Description
<b>HR-50</b>	Holds 50 feet of 3/8" ID breathing air hose
<b>HR-50SS</b>	Holds 50 feet of 3/8" ID breathing air hose, stainless steel reel
<b>HR-100</b>	Holds 100 feet of 3/8" ID breathing air hose
<b>HR-100-5</b>	Holds 100 feet of 1/2" ID breathing air hose
<b>HR-505</b>	Holds 50 feet of 1/2" ID breathing air hose
<b>HR-575</b>	Holds 75 feet of 1/2" ID breathing air hose

**When purchasing hose  
and reel, hose installed  
at no additional charge**

**Reel colors may vary  
depending on reel  
type ordered.**

## 3/8" Breathing Air Hose Reels with Point of Attachment Automatic Rewind

Item No.	Description
<b>HR-50POA</b>	NIOSH point of attachment reel, holds 50' of 3/8" ID breathing air hose, installed regulator, pressure gauge, and safety relief valve. Use with NIOSH approved respirator hose.
<b>HR-100POA</b>	NIOSH point of attachment reel, holds 100' of 3/8" ID breathing air hose, installed regulator, pressure gauge, and safety relief valve. Use with NIOSH approved respirator hose.

## 1/4" Breathing Air Hose Reels - High Pressure Automatic Rewind

Item No.	Description
<b>HPR-50</b>	Holds 50 foot of 1/4" ID, 5000 psi high pressure air hose
<b>HPR-350</b>	Holds 50 foot of 1/4" ID, 6000 psi high pressure air hose
<b>HPR-100</b>	Holds 100 foot of 1/4" ID, 5000 psi high pressure air hose
<b>HPR-1006K</b>	Holds 100 foot of 1/4" ID, 6000 psi high pressure air hose

**Breathing air hose  
ordered separately  
See page 23.**

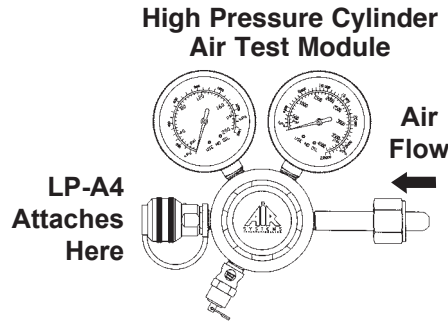
**All reels can be purchased with breathing air hose installed.  
Hose reels can be mounted on roller carts.  
Consult Customer Service for additional details.**

# Air Quality Test Kits

Air Systems' breathing air quality test kits are designed to test the air produced by both low pressure compressors (use model LP-A4) and high pressure air in cylinders (use model HP-A4 or HP-A445). The tests are accomplished through the use of low cost detector tubes providing a "go/no go" test of the air quality. If a high reading is found, this signals potentially unacceptable breathing air quality and a laboratory analysis of the breathing air must be made to determine the exact readings of the air quality in order to take corrective action.



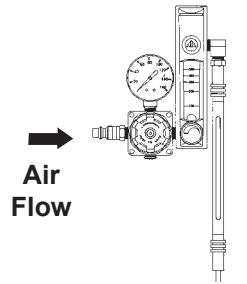
**Air Quality Test Kit  
LP/HPA445K**



**Cylinder Air Test Module  
CGA-346 (3000 psi)  
HP-A4**

**Cylinder Air Test Module  
CGA-347 (5000 psi)  
HP-A445**

## Low Pressure Compressor Air Quality Test Module



Plugs directly into outlet fitting on Breather Box® or high pressure regulator.

**Please specify fitting.**

**Compressor Air  
Quality Test Module  
LP-A4**

100 psi Maximum Pressure



**47 mm Filter Pre-weighed  
MW-47**

## Complete Test Kits

Item No.	Description
LP/HP-A4K	Contains LP-A4, HP-A4, LP-47PF, 4 boxes of assorted test tubes, and padded carry case – 3000 psi maximum
LP/HPA445K	Same as above kit, includes HP-A445 test module in place of HP-A4 module – 5000 psi maximum

## Test Modules

Item No.	Description
LP-47PF	Total particulate test module, maximum 20 psi - use with HP-A4 or HP-A445 - order pre-weighed filter (MW-47) separately
MW-47	Pre-weighed 47 mm filter in petri dish
HP-A4	Cylinder air test module, 3000 psi maximum - use with test module LP-A4
HP-A445	Cylinder air test module, 5000 psi maximum - use with test module LP-A4
LP-A4	Compressor air quality test module - 100 psi max
MWH-44	47 mm filter holder only

## Replacement Tubes for Kits and Modules

Item No.	Description
HP-1A	Replacement carbon monoxide test tube - box of 10
HP-2A	Replacement carbon dioxide test tube - box of 10
HP-6A	Replacement water vapor test tube - box of 10
HP-109AD	Replacement oil mist test tube - box of 10



**Total Particulate Test Module  
LP-47PF**

## Compressed Air Cylinder Test Kit

The AQTCCO2KIT Cylinder Test Kit is designed to rapidly test rented cylinder's blended breathing air quality. The intrinsically safe monitor provides an immediate and accurate Oxygen (O<sub>2</sub>) and Carbon Monoxide (CO) reading for blended high-pressure cylinder air. The meter requires two 9 volt batteries for operation and is supplied with a 10 foot high pressure hose and a 5000 psi regulator with a universal CGA-347 hand tight cylinder connection.



CO/O<sub>2</sub> Cylinder Test Kit  
AQTCCO2KIT

Visual Air Flowmeter to Monitor

High Pressure Connect Hose

**Always Test Cylinder Air Quality Prior to Use**



**The CO/O<sub>2</sub> Cylinder Test Kit contains all the components to test blended breathing air cylinders.**

### CO/O<sub>2</sub> Cylinder Test Kit

Item No.	Description
AQTCCO2KIT	Test Kit - CO/O <sub>2</sub> Intrinsically Safe monitor (CSA C/US Certified), 9 VDC, flow meter, high pressure 5K reducing regulator, 10 foot high pressure connect hose with CGA-347 universal hand tight cylinder connection

For calibration gas and kits, see page 22

## Laboratory Air Quality Testing Service

### Air Sampling Kits Available for Rental or Purchase

Certified laboratory air testing is available for high pressure or low pressure compressor air requirements. Take your own samples in 10 minutes and send out for precise laboratory results. A 2LA accredited lab will test to any recognized standards (CGA, NFPA, or Federal MIL Specs).

**Results can be obtained in less than 3 days; same day service is available for an additional charge. Contact Customer Service for details.**

### AirCheck™ Air Sampling Kits for Purchase or Rental

Item No.	Description
ACK-97	AirCheck™ Kit to collect air sample. Maximum pressure 150 PSI. <b>Purchase of AQT-1LS required.</b>
ACK-97H	AirCheck™ Kit to collect air sample. Maximum pressure 6000 PSI. <b>Purchase of AQT-1LS required.</b>
ACK-97R	RENTAL AirCheck™ Test Kit - 2 week rental period. <b>Purchase of AQT-1LS required.</b>
AQT-1LS	Laboratory analysis fee and sample media kit. <b>One kit required for each air test performed.</b>



### Air Systems' Air Quality Guarantee

*Air Systems will provide your first lab certified air quality test at no charge when you purchase any of our Grade-D filtration devices or compressor systems. AirCheck™ kit rental or purchase is required to redeem offer. Contact Customer Service for details.*

## Low Pressure Ambient Air Pumps

### For Use With Constant Flow Respirators Only

**For proper air pump operation:** Always choose a constant flow respirator designed and approved to operate with an ambient air pump, **under 15 psi**. Specify the approved respirator coupling size when ordering a particular model pump that matches the respirator hose selected.

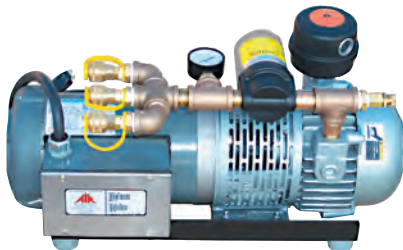
Air pump compressors **MUST** be placed in a clean air environment per OSHA 1910.134.



#### BAC-10 - 2 Worker

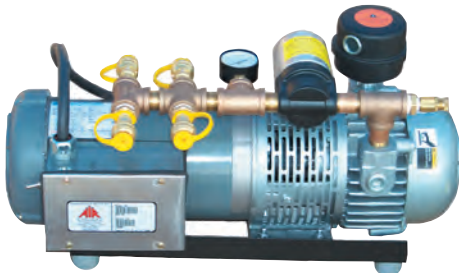
- Operates 1 hood style respirator or 2 tight fitting constant flow masks, respirator requirements CANNOT exceed maximum pressure of 15 psi
- Maximum 10 psi at 9 cfm output, 9.5 cfm output at 4 psi
- Electric motor: 3/4 HP, ODP, 100-115/208-230 VAC, 9.2/4.8 amps, 50/60 Hz
- Weight: 55 lbs

**Note: Number of users on pumps based on minimum hose lengths. Please contact Customer Service for sizing help.**



#### BAC-17 - 3 Worker

- Operates 2 hood style respirators or 3 tight fitting constant flow masks as long as the combined flow requirements DO NOT exceed 15 cfm at 4 psi
- Maximum pressure 15 psi at 12 cfm output, 15 cfm output at 4 psi
- Electric motor: 1.5 HP, TEFC, 115/208-230 VAC, 14.4/7.2 amps, 60 Hz
- Optional HEPA intake filter, order separately (BAC-20HF-1)
- Weight: 90 lbs



#### BAC-20 - 4 Worker

- Operates 2 hood style respirators or 4 tight fitting constant flow masks as long as the combined flow requirements DO NOT exceed 20 cfm at 4 psi
- Maximum pressure 15 psi at 16 cfm output, 20 cfm output at 4 psi
- Electric motor: 2 HP, TEFC, 115/208-230 VAC, 18.9/9.4 amps, 60 Hz
- Optional HEPA intake filter, order separately (BAC-20HF-1)
- Weight: 103 lbs

#### All Ambient Air Pumps (Except Model BAC-17EXP):

- Electric motor: 1 phase, thermally protected, UL/CSA approved
- 0.5 - 0.7 micron inlet and compressor filters
- HEPA intake filter sold separately
- Prewired with on/off switch and plug (115 VAC plug only)

### Low Pressure Ambient Air Pumps

Item No.	Description
BAC-10	Electric compressor - 0.75 HP, ODP, 100-115/208-230 VAC, 50/60 Hz
BAC-17	Electric compressor - 1.5 HP, TEFC, 115/208-230 VAC, 60 Hz
BAC-20	Electric compressor - 2 HP, TEFC, 115/208-230 VAC, 60 Hz
BAC-17EXP	Explosion-proof electric motor, 1.5 HP, 230/460 VAC, 3 phase motor, no plug. See page 64 for plugs.
BAC-20P	Pneumatic compressor for up to 4 workers, optional HEPA intake filter



### Replacement Filters

Item No.	Description
BAC-393-1	Discharge filter - fits all BAC models (each)
BAC-393-4	Discharge filter - fits all BAC models (box of 4)
BAC-10F-1	Air intake filter - Model BAC-10 (each)
BAC-20F-1	Air intake filter - Models BAC-17, BAC-20, BAC-20P (each)
BAC-10F-4	Air intake filter - Model BAC-10 (box of 4)
BAC-20F-4	Air intake filter - Models BAC-17, BAC-20, BAC-20P (box of 4)
BAC-20HF-1	HEPA (99%) air intake filter for BAC-17 and BAC-20 (each)

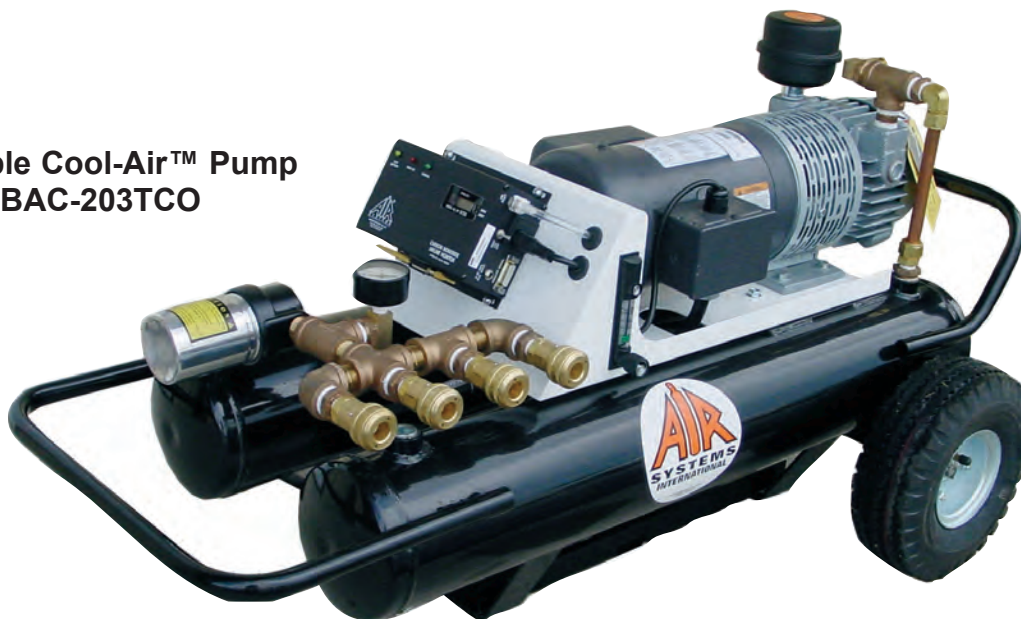
**All ambient air pumps require two (2) replacement filters.**

**Order a pump compressor filter and air intake filter for the pump in use.**

# The Portable Cool-Air™ Pump

## Twin Air™ Tank Mounted Ambient Air Pumps

Portable Cool-Air™ Pump  
BAC-203TCO



All air pumps deliver output air temperatures ranging between 140-180°F. The low cost solution to cool breathing air is the **Portable Cool-Air™ Pump** - an ambient air pump mounted on a Twin-Air™ tank assembly. Output air temperatures are significantly cooler as the air is cooled to approximately 20°F above the ambient temperature while in the tanks. A sturdy steel frame and tires make the Cool-Air™ Pump easy to transport to the work site. Each tank has a manual drain valve for moisture control. A **COOL-BOX™** may be ordered for additional cooling, see page 19 for details.



### OSHA REQUIRES CO MONITORING

*"For compressors not oil lubricated, the employer shall ensure that CO (carbon monoxide) levels do not exceed 10 ppm," (OSHA 1910.134(i)(6)). Air Systems' CO-91 series monitor can be fitted to ANY ambient air pump.*

### The Portable Cool-Air™ Pump

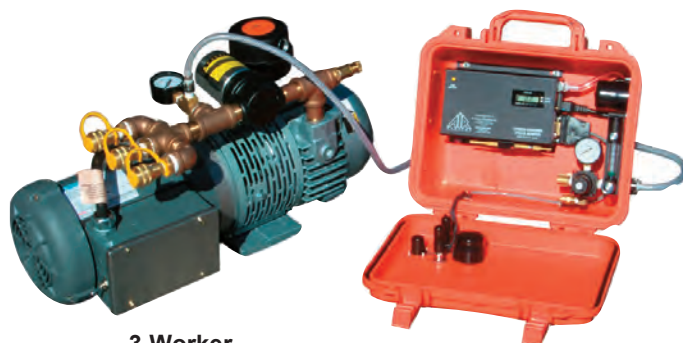
Item No.	Description
	<b>With CO Monitor</b>
BAC-103TCO	BAC-10 compressor on Twin-Air™ tanks, up to 2 workers
BAC-173TCO	BAC-17 compressor on Twin-Air™ tanks, up to 3 workers
BAC-203TCO	BAC-20 compressor on Twin-Air™ tanks, up to 4 workers
	<b>No CO Monitor</b>
BAC-10-3T	BAC-10 compressor on Twin-Air™ tanks, up to 2 workers
BAC-17-3T	BAC-17 compressor on Twin-Air™ tanks, up to 3 workers
BAC-20-3T	BAC-20 compressor on Twin-Air™ tanks, up to 4 workers

Low pressure ambient air pumps are not designed for use with pressure demand respirators or vortex cooling tubes due to low output pressure.

### Portable CO and CO/O<sub>2</sub> Monitors

Item No.	Description
CO91-14LAC	Portable CO monitor, 150 psi maximum inlet pressure, 5 foot hose, connections, and all parts needed to connect to all ambient air pumps
CO2-91LAC	Portable CO/O <sub>2</sub> monitor, 9 VDC and/or 115 VAC, 5' hose, 150 psi maximum inlet pressure

Calibration kits available on page 22



3 Worker  
Ambient Air Pump  
BAC-17

Portable CO Monitor  
CO91-14LAC

## COMP-3™ Breathing Air Compressor System

The COMP-3™ Twin-Air™ Compressor system is designed to provide Grade-D breathing air for up to 3 workers wearing pressure demand respirators. The TA-3 compressor has Twin-Air™ ASME receiver tanks which provide air cooled to within 10 degrees of the ambient temperature.

### Key Details for TA-3 Compressor:

- Rotary vane air compressor
- Pressure range to 110 psi output
- 2 HP electric motor, 1750 rpm continuous duty – thermally protected
- 115/230 VAC, 1-phase, 60 Hz, 17.2 amps (requires 20 amp service)
- Low maintenance - 500 hours between oil changes
- Automatic pressure unloading - full modulation air control
- Noise level below 70 dBA at 3 feet
- USDA approved food grade oil in compression end
- 10" pneumatic tires
- Built-in skid plate for stair climbing
- ASME coded 8 gallon Twin-Air™ tank assembly, 8.5 cf air storage @ 110 psi
- Breather Box® Grade-D filtration package supplied with COMP-3 package
- Weight: 150 lbs



**COMP-3™ System**  
TA-3 Compressor & Breather Box®

### COMP-3™ System & Components

Item No.	Description
COMP-3	TA-3 Twin-Air™ Compressor, 115/230 VAC, 1 phase, 2 HP, 20 amp, ½" x 10' connect hose, and BB30-CO3 Breather Box®, 3 respirator fittings
TA-3	Twin-Air™ Compressor, 115/230 VAC, 1 phase, 60 Hz, 2 HP, 20 amp. 1-3 workers
TA-3EXP	Twin-Air™ Compressor, 2 HP explosion-proof electric, 230/3 VAC, 3 phase, no plug, user wired per NEC requirements. Explosion-proof plugs sold on page 64.
BB30-FK	Replacement filter kit for BB30-CO3 Breather Box®

**Do not use with constant flow respirators or vortex cooling tubes.**

Calibration kits available on page 30



## COMP-3EA™ Auto-Air™ Breathing Air Compressor System

The COMP-3EA™ Compressor System includes an Auto-Air™ Breather Box®, model BB30-COAA, the TA-3EA compressor supplied with a CGA-347 high pressure reducing regulator, primary hose, and secondary hose. An optional 60 or 87 cf cylinder can be installed on the compressor frame to provide additional egress air. The COMP-3EA™ system is designed for pressure demand respirators only.

### COMP-3EA™ Compressor & Components

Item No.	Description
COMP-3EA	TA-3EA compressor, ½" x 10' hose, ¾" x 10' hose, high pressure regulator, and BB30-COAA Breather Box®
TA-3EA	TA-3 Twin-Air™ Compressor with adjustable high pressure (5000 psi) regulator for attachment to a CGA-346 or CGA-347 cylinder and cylinder strap
BB30-FK	Replacement filter kit for BB30-COAA Breather Box®
	<b>Reserve Air Cylinders</b>
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved

**Do not use with constant flow respirators or vortex cooling tubes.**

Note: Size the reserve air system to achieve the required egress time

Calibration kits available on page 30

*NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments. Our Auto-Air™ feature does not replace the NIOSH requirement. Some work environments may require a 30 minute (or longer) airline escape method to safely egress the hazardous area. This situation would require the use of an Auto-Air™ Breather Box® or Auto-Air™ Cart with reserve air cylinder.*



**COMP-3EA™ System**  
TA-3EA Compressor and an Auto-Air™ Breather Box®



## TA3-AXAF™ - Explosion-Proof Auto-Air™ Compressor

The TA3-AXAF™ Explosion-Proof Compressor System is designed to provide automatic back-up air for up to 3 workers in the event of compressor failure. Combining an intrinsically safe Grade-D air filtration package and the TA-3EXP compressor mounted on the Twin-Air™ frame, the TA3-AXAF™ provides an all in one explosion-proof Grade-D air filtration system. The TA3-AXAF™ is popular in the oil and gas industries due to the compact design. **For use with pressure demand airline respirators only.**

### Key Details:

- CSA certified intrinsically safe CO Monitor
- Explosion-proof electric motor - 230/460 VAC, 3 phase 50/60 Hz
- 25 foot power cord, no plug - order explosion-proof plug on page 64
- ASME coded Twin-Air™ tank design for cool breathing air output
- Full automatic back-up air feature, up to 5500 psi capability
- Pneumatic visual indicator and audible alarm for system failure
- 110 psi output air pressure, 3 couplings supplied
- Holds one back-up SCBA air cylinder, up to 4500 psi
- Air control panel with high pressure regulator
- 10" pneumatic tires
- Weight: 185 lbs



Explosion-Proof  
Auto-Air™ Compressor  
TA3-AXAF

### Explosion-Proof Auto-Air™ Compressor

Item No.	Description
TA3-AXAF	Explosion-proof compressor includes: Grade-D filtration, air control panel with CO monitor, 25' power cord, user wired per NEC requirements 1-3 workers. Reserve air cylinders sold separately.
BB30-FK	Replacement filter kit for TA3-AXAF
AC-60	Reserve Air Cylinders 60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved

Explosion-proof Plug sold separately - see page 64 for ordering information

### CO Monitor Calibration Kit - Small Cylinders

Item No.	Description
BBK-20	CO monitor calibration kit - 20 ppm CO, zero air, regulator, tubing, and hard case. 17 liter size disposable cylinders
BBK-10	CO monitor calibration kit - 10 ppm CO, zero air, regulator, tubing, and hard case. 17 liter size disposable cylinders. For Canadian CO monitor settings.

Additional Calibration  
kits available on page 22



WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



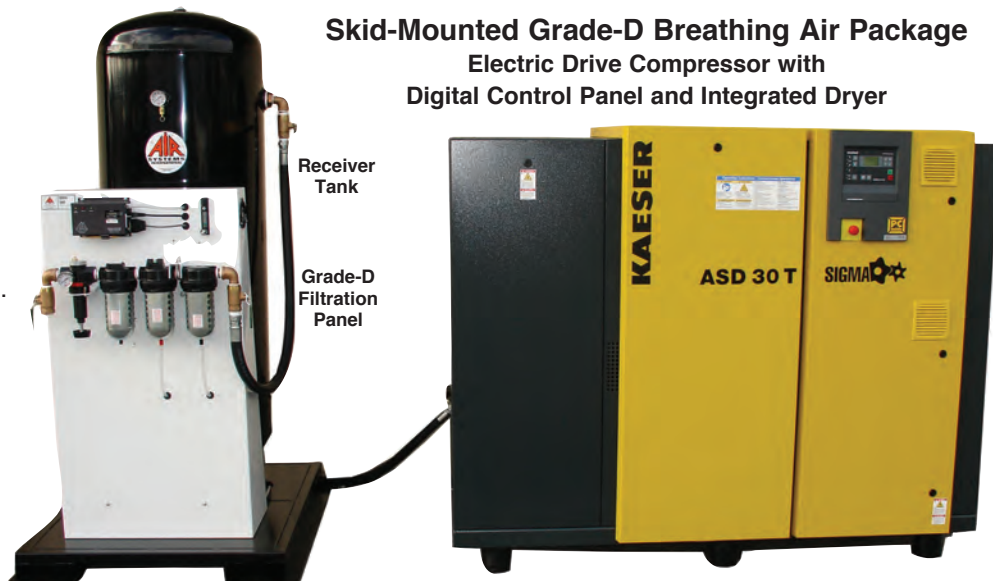
BBK-20

## Plant Breathing Air Compressor Systems Electric, Gasoline and Diesel Rotary Screw

### Designing a Breathing Air System

Air Systems' technical staff will assist you in selecting the proper compressor package as the first step in designing a breathing air system to meet your needs.

Once a specific compressor package is selected, detailed information such as technical specifications and Auto-Cad® drawings will be provided for customer review and approval.



Skid-Mounted Grade-D Breathing Air Package  
Electric Drive Compressor with  
Digital Control Panel and Integrated Dryer

All systems are designed and engineered to be ready for immediate use.

Plant breathing air systems are designed to provide Grade-D breathing air for industrial applications. Remote air manifolds are used for multiple work stations. The system pictured above includes a rotary screw compressor, a 120 gallon ASME receiver tank, Air Systems' Grade-D filtration panel with our CO-91 series carbon monoxide monitor and a refrigerated air dryer. The entire filtration system is mounted on a steel forklift frame assembly. This system can be designed for any required flow (cfm) capacities and output pressures.

*It is recommended that after the initial set-up of a breathing air compressor system and before workers are allowed to use the breathing air system, a certified laboratory analysis of the air quality should be performed to assure the system is functioning properly and the compressor is located in a clean fresh air environment.*

**Contact Customer Service  
for Additional Information  
and Order Placement.**

### Air Systems' Air Quality Guarantee

*Air Systems is confident you will be pleased with your portable or fixed breathing air filtration system, we will provide, at NO CHARGE, your first lab certified air quality test of your new Air Systems' breathing air filtration device or compressor system. AirCheck™ Kit rental or purchase is required to redeem offer. Contact Customer Service for further details and eligibility.*



Dual Compressors with Auto Sequencing



## Plant Breathing Air Compressor Systems Custom Engineered Solutions

- Standard and HEPA Remote Intake Air Filters Available
- Sequencing for Dual Compressor Systems
- Refrigerated Air Dryers
- ASME Receiver Tanks
- Air or Water Cooled Aftercoolers
- Automatic Moisture Separators
- Skid Mounting
- Trailer Mounting
- Custom Breathing Air Containers
- Heat and Air Conditioning Systems
- On-Site Field Training Available



## Low Pressure Mobile Systems With Reserve Auto-Air™

IDLH conditions require the use of a pressure demand airline respirator worn by the worker with at least a 5 minute escape cylinder. If the primary air system fails, the reserve air activation occurs at 60 psi and the Auto-Air™ system automatically switches to the reserve air cylinder(s). Local and optional remote alarms signal the worker(s) that the primary air system has failed and has switched to the reserve air. See additional Auto-Air™ systems on pages 13-16.



## High Pressure Fill Compressors



Vertical Fill Compressor



Horizontal Fill Compressor



Mobile Fill Trailer

**Electric, Gasoline, or Diesel Models Available**

**We specialize in designing custom systems to meet Military, Fire/Rescue, and Industrial fill applications.**

Air Systems provides a full line of high pressure fill compressors with high CO shutdown, air storage, air distribution systems, and containment fill stations. We can provide output air pressures up to 6000 psi and units to 26 cfm capacity.

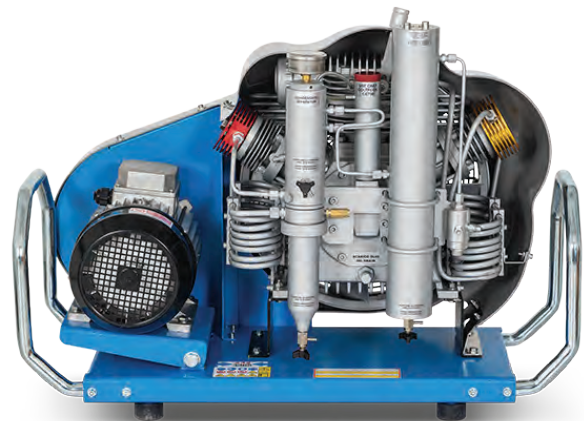
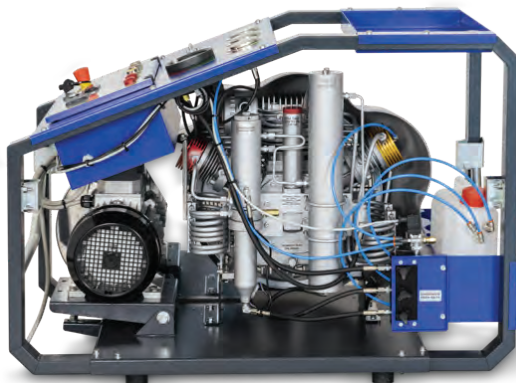
Call Customer Service to discuss your particular application or fill out the High Pressure Compressor Questionnaire located at [www.airsystems.com](http://www.airsystems.com) to design a custom system to meet your needs.

*Our compressors meet or exceed the Grade-E air quality specifications found in NFPA 1989 and OSHA 1910.134 when used in accordance with manufacturer's recommendations.*

*Air Systems provides at NO CHARGE your first lab certified air quality test with the purchase of a new compressor with CO monitor. Contact Customer Service for details.*

## Portable Fill Compressors

CFM outputs available from 3.5 to 10.8 cfm in Electric, Gas, or Diesel



**Portable compressors are designed for filling small SCBA cylinders only.  
SCUBA fill whips available.**

## Fill Containment Stations

**Containment Fill Stations  
Designed to Meet  
NFPA 1901 Standards**

### Standard Features:

- All Steel Construction
- Grade-8 Steel Structural Hardware
- Vertical Blast Tubes with Liners
- Designed to Fit All Size SCBA Cylinders
- **Third Party Tested to Meet NFPA 1901**

### Optional Features:

- Single or Multiple Fill Pressures
- Isolation Valves for Each Fill Position
- Color Coded Fill Lines and Labels for Each Fill Pressure and Position
- Cascade Bank Control Panels

**Custom multi-bank cascade control panels are available upon request.**



**3 Position Fill Station with 4 Bank Cascade Control Panel and Pneumatic Opening Door**



**2 Position Fill Station Open**

Fill containment stations are the ideal choice for safety performance with supply pressures up to 6000 psi and cylinder capacities from 2 to 4 positions. All fill stations have been third party tested to NFPA 1901 cylinder containment requirements and are individually tested and certified for performance prior to shipment.

## SCBA Frag Stations

**FRAG-1 & FRAG-2 fill stations do not meet NFPA 1901 standards.**



### Fragmentation Fill Stations

Item No.	Description
FRAG-1	Floor mounted fragmentation fill station, 1 cylinder
FRAG-2	Floor mounted fragmentation fill station, 2 cylinders

## Laboratory Air Testing Service

Certified laboratory air testing is available for high pressure cylinder air or low pressure compressor air requirements. Take your own samples in 10 minutes and send out for precise laboratory results. An A2LA accredited lab will test to any recognized standards, e.g., CGA, NFPA, or Federal MIL Specs. Results can be obtained in less than 3 days or expedited service is available at an extra charge.

**Air Sampling Kits Available for Rental or Purchase.**



## Cascade Cylinder Fill Assemblies & Connecting Whips

Cascade fill assemblies are used for refilling 2216 or 4500 psi SCBA cylinders. Fill assemblies include a 5 foot high pressure fill whip, gauge, universal hand-tight nut CGA 346/347, on/off valve, and bleed valve. Cylinder connecting whips are supplied with a CGA stem, nut, and tee assembly. Additional cylinder connecting whips can be added to any of the below assemblies for additional storage cylinders. **Cylinders sold separately - see page 38.**



CBF3-346NB



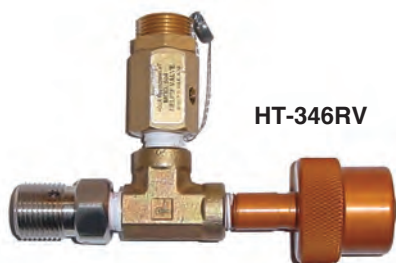
CW-30



HP-FW5-346



RG-6000FIL



HT-346RV

### Cascade Cylinder Fill Assemblies

Item No.	Description
CBF3-346NB	3 cylinder fill assembly, CGA-346, 3000 psi
CBF3-347NB	3 cylinder fill assembly, CGA-347, 5000 psi
CBF3-702NB	3 cylinder fill assembly, CGA-702, 6000 psi

Cylinders sold separately - see page 38

Additional breathing air assemblies and low pressure bell alarm options available. Contact Customer Service.

### Air Cylinder Connecting Whips 30" Whip with Tee - No Check Valve

Item No.	Description
CW-30	CGA-346 stem and nut - 3000 psi
CW-30HP	CGA-347 stem and nut - 5000 psi
CW-30-702	CGA-702 stem and nut - 6000 psi

Cylinders sold separately - see page 38

### 30" Whip with Check Valve & Tee

Item No.	Description
CWCV-30	CGA-346 stem and nut - 3000 psi
CWCV-30HP	CGA-347 stem and nut - 5000 psi
CWCV-702	CGA-702 stem and nut - 6000 psi

Cylinders sold separately - see page 38

### Cylinder Fill Whips

Item No.	Description
HP-FW5-346	<b>Low Pressure Fill Whip</b> CGA-346, 3000 psi max, universal hand-tight nut
HP-FW5-347	<b>High Pressure Fill Whip</b> CGA-347 only, 5000 psi max, hand-tight nut
HP-FW5-702	<b>Ultra High Pressure Fill Whip</b> CGA-702, 6000 psi max, wrench tight

All Cylinder Fill Whips come with 5 foot high pressure hose, on/off valve, pressure gauge, bleed valve, and connecting nut. Cylinders not included. Special lengths available.

### Fill Regulator

Item No.	Description
RG-6000FIL	Fill regulator, 6000 psi inlet, 0-5000 psi outlet with gauges, hand tight CGA-347 inlet and 1/4" NPT outlet
RG6KFIL702	Fill regulator, 6000 psi inlet, 0-5000 psi outlet with gauges, wrench tight CGA-702 inlet and CGA-347 outlet

### High Pressure to Low Pressure Adapter

Item No.	Description
HT-346RV	Safety fill adaptor CGA-347 to CGA-346, 2400 psi relief pressure

## Cascade Breathing Air Assemblies

Air Systems' breathing air assemblies offer a complete system for use with airline respirators. Additional cylinder connecting whips can be added to extend breathing air capacity with additional cylinders. **Cylinders sold separately - see page 38.**



CBA3-347NB



RG-3000



RG-5000-2Y



POA-2HPWM



HP-CW1-347



SS347HT



SS347SNHT



SS702N and SS702S



HPBR049 and HPBR050

### Cascade Breathing Air Assemblies

Item No.	Description
CBA3-346NB	3 cylinder breathing air assembly, CGA-346, 3000 psi
CBA3-347NB	3 cylinder breathing air assembly, CGA-347, 5000 psi
CBA3-702NB	3 cylinder breathing air assembly, CGA-702, 6000 psi

Cylinders sold separately. See page 38. Please specify fittings when ordering.

Additional breathing air assemblies and low pressure bell alarm options available. Contact Customer Service.

Assemblies include regulator, 4-outlet manifold, low pressure alarm whistle, relief valve, and connecting whips with check valves.

### Breathing Air Regulators & Manifolds

Item No.	Description
<b>Breathing Air Regulators (1/4" QD Fitting)</b>	
RG-3000	CGA-346, 3000 psi, adjustable regulator, dual gauges, and relief valve
RG-3000-2Y	RG-3000 regulator with 2 fittings, includes check valve and low pressure alarm whistle, 3000 psi, CGA-346
RG-5000	CGA-347, 5000 psi, adjustable regulator, dual gauges, and relief valve
RG-5000-2Y	RG-5000 regulator with 2 fittings, includes check valve and low pressure alarm whistle, 5000 psi, CGA-347
RG-6000	CGA-702, 6000 psi, adjustable regulator, dual gauges, and relief valve
<b>Breathing Air Manifolds</b>	
HP-CW1-346	4-outlet manifold assembly with safety relief valve, 3000 psi regulator, CGA-346 connection, low pressure alarm whistle, 4 fittings
HP-CW1-347	4-outlet manifold assembly with safety relief valve, 5000 psi regulator, CGA-347 connection, low pressure alarm whistle, 4 fittings
HP-CW1-702	4-outlet manifold assembly with safety relief valve, 6000 psi regulator, CGA-702 connection, low pressure alarm whistle, 4 fittings

### High Pressure Point of Attachments (POA)

Item No.	Description
POA-2HPWM	Wall mounted high pressure POA manifold, 5000 psi - 2 couplings

Contact Customer Service to order custom wall mounted POA's

## High Pressure CGA Fittings

### Hand Tight Fitting

Item No.	Description
SS347HT	CGA-347 universal hand-tight, fits CGA-346 or 347 male thread, maximum pressure 5500 psi, gold
SS347SNHT	CGA-347 high pressure hand-tight, fits CGA-347 male thread only, maximum pressure 5500 psi, silver

### Wrench Tight Fittings

Item No.	Description
HPBR025	CGA-346 brass nut - max pressure 3000 psi
HPBR026	CGA-346 brass stem - max pressure 3000 psi
HPBR027	CGA-346 brass stem with check valve - max Pressure 3000 psi
HPBR049	CGA-347 brass nut - max pressure 5500 psi
HPBR050	CGA-347 brass stem - max pressure 5500 psi
SS702N	CGA-702 brass nut - max pressure 7500 psi
SS702S	CGA-702 brass stem - max pressure 7500 psi

## LIFT-PAK™ - Air Cylinder Transport PAK™

The LIFT-PAK™ is designed for ease of lifting and securing multiple air cylinders. The LIFT-PAK™ can be supplied with a respirator regulator, manifold, safety relief valve, low pressure alarm whistle, hardware, and cylinders (sold separately). The frame is manufactured with heavy gauge aluminum and includes a center lift hook. Steel options available.

**All LIFT-PAK™ units are made to order.**

### LIFT-PAK™ Aluminum - The Shark Cage

Item No.	Description
BR-6AL	6 cylinder LIFT-PAK™ with fork guides and lift hook
BR-4AL	4 cylinder LIFT-PAK™ with fork guides and lift hook

Breathing air hardware not included - see page 36  
Cylinders sold separately - see page 38

Systems can be ordered with cylinders and all hardware supplied at pressures up to 6000 psi.  
Racks can be designed to slide in vehicles.

LIFT-PAK™  
BR-6AL  
Order Hardware  
and Cylinders  
Separately

Certified load testing  
available for an  
additional charge.



## Air Cylinder Wire Rack

### Economical SCBA / SCUBA Cylinder Rack

Item No.	Description
TR-4	4 cylinder rack, steel wire basket, floor mountable, 34" L x 8¾" W x 11" H

Cylinders sold separately - see page 38

Air Cylinder  
Wire Rack  
TR-4



## Portable Custom Steel Air Cylinder Racks

Custom portable heavy-duty steel racks can be ordered in any combination to meet cylinder storage requirements.

### Options Available:

- Number of cylinders
- Lift rings
- Load testing certification
- Powder coated frame - multiple colors available
- Regulator and high pressure whips
- Breathing air control panel
- Filling air control panel
- Forklift guides



Call Customer Service for information  
and to create a custom cylinder rack



## Breathing Air Cylinders



AC-60



AC-87



AC-444

### Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved
AC-300	300 cf CGA-346, 2400 psi, steel, DOT/TC approved
AC-444	444 cf CGA-347, 4500 psi, steel, DOT/TC/ISO/UN approved
AC-472	472 cf CGA-347, 5000 psi, steel, DOT/TC/ISO/UN approved
AC-509	509 cf CGA-702, 6000 psi, steel, DOT/TC/ISO/UN approved

### CO/O<sub>2</sub> Blended Air Cylinder Test Kit

Item No.	Description
AQTCOO2KIT	Test Kit - CO/O <sub>2</sub> Intrinsically Safe monitor (CSA C/US Certified), flow meter, high pressure 5K reducing regulator, 10 foot high pressure connect hose with CGA-347 universal hand tight cylinder connection

CO/O<sub>2</sub>  
Cylinder  
Test Kit  
AQTCOO2KIT



## AIR-KADDY™

### Modular Aluminum SCBA Cylinder Storage Racks

#### AIR-KADDY™ - Series 24 for Vehicles For Fire/Rescue Vehicles Requiring Narrow Profile

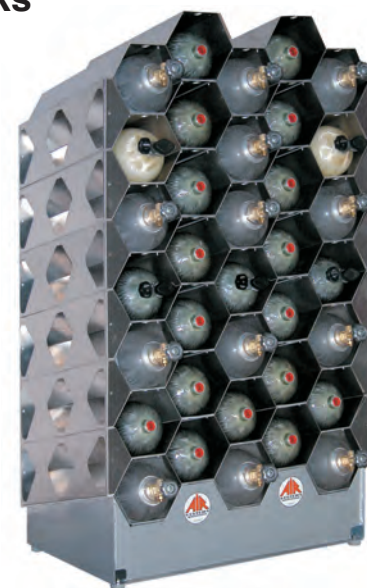
Item No.	Description
AK24-8	AIR-KADDY™ 8 cylinder rack - 32" H x 25¼" W x 22¼" D
AK24-11	AIR-KADDY™ 11 cylinder rack - 48" H x 25¼" W x 22¼" D
AK24-18	AIR-KADDY™ 18 cylinder rack - 60" H x 25¼" W x 22¼" D
AK24-24	AIR-KADDY™ 24 cylinder rack - 76" H x 25¼" W x 22¼" D

#### AIR-KADDY™ - Series 40 - Free Standing

Item No.	Description
AK40-15	AIR-KADDY™ 15 cylinder rack - 36" H x 37½" W x 22½" D
AK40-25	AIR-KADDY™ 25 cylinder rack - 60" H x 37½" W x 22½" D
AK40-35	AIR-KADDY™ 35 cylinder rack - 68" H x 37½" W x 22½" D
AK40-40	AIR-KADDY™ 40 cylinder rack - 76" H x 37½" W x 22½" D



AIR-KADDY™  
with Thread Savers®  
AK24-11TS



AIR-KADDY™  
with Cylinders  
AK40-35

### Thread Saver®

Item No.	Description
VAL-TS	Thread Saver® - cylinder thread protector

Add TS to the AIR-KADDY™ model number to have Thread Savers® installed.



## UNI-PAK™ SCBA Cylinder System Marine Board Single Cylinder UNI-PAK™



PAK-SFL™



PAK-SFLDMB

The PAK-SFL™ is a complete single user breathing air PAK designed to mount a single cylinder on a forklift, or other equipment, and offers the ability to detach and carry as needed. The PAK-SFL™ can also be mounted on a wall for use for emergency response situations.

### Key Details:

- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- HDPE (Marine Board) frame
- Safety relief valve, 125 PSI
- Dimensions: 34" L x 7<sup>7</sup>/<sub>5</sub>" W x 4<sup>1</sup>/<sub>2</sub>" H
- Weight: 7 lbs (no cylinder)



PAK-SFL™ & bracket mounted on forklift

### Marine Board Single Cylinder UNI-PAK™

Item No.	Description
PAK-SFL	PAK-SFL™ single cylinder PAK, 4500 psi rated, 1 outlet, adjustable regulator, low pressure alarm whistle
PAK-SFLDMB	PAK-SFL™ mounting bracket

Cylinder sold separately - see below

### Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved

## Steel Single Cylinder UNI-PAK™

Ideal for working in hazardous locations or emergency response.

### Key Details:

- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- Powder coated steel frame
- 2-outlet manifold, specify desired respirator fittings
- Adjustable regulator and low pressure alarm whistle
- Dimensions: 34" L x 7<sup>7</sup>/<sub>5</sub>" W x 4<sup>1</sup>/<sub>2</sub>" D
- Weight: 7 lbs (no cylinder)



Cylinder sold separately

Optional Carrier PAK-UNI1C

UNI-PAK™ PAK-UNI1

### Steel Single Cylinder UNI-PAK™

Item No.	Description
PAK-UNI1	UNI-PAK™ holds a single cylinder, 2 outlet, 4500 psi rated. Carrier not included.
PAK-UNI1C	Polyethylene carrier for PAK-UNI1

Cylinder sold separately - see above

## PORTA-PAK™ PAK-3™ Breathing Air Cylinder Tray

### Key Details:

- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- CGA-347 connections, universal hand tight nuts
- Low pressure alarm whistle
- In-line check valves allows independent cylinder operation
- Aluminum frame - powder coated with padded carry handles
- 4-outlet breathing air manifold with 125 psi safety relief valve
- Dimensions: 29" L x 21" W x 6" D
- Weight: 25 lbs (no cylinders)

### PORTA-PAK™ - Twin Cylinder

Item No.	Description
PAK-3	PORTA-PAK™ tray assembly, no cylinders
PAK-WM	PORTA-PAK™ wall mount brackets, 2 each

Cylinders sold separately - see below

### Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved



**PAK-3**  
Cylinders sold separately

## PORTA-PAK™ Rescue Cart PAK-4R™ Rescue Cart with Removable Air Cylinder Tray

### Key Details:

- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- Low pressure regulator for pneumatic tools
- Low pressure alarm whistle
- Rear hose storage rack
- Adjustable output regulator w/relief valve
- In-line check valves
- Telescoping aluminum handle
- Removable aluminum air cylinder tray
- Dimensions: 33" H x 25" W x 17" D
- Weight: 37 lbs (no cylinders)



### PORTA-PAK™ Rescue Tray & Accessories

Item No.	Description
PAK-4R	PORTA-PAK™ Rescue Cart includes 3-way cylinder directional valve, secondary low pressure regulator, gauge, additional outlet fitting, cart with 8" wheels, rear hose storage rack. <b>No cover or cylinders.</b>
PAK-4	PORTA-PAK™ Rescue tray assembly includes 3-way cylinder directional valve, secondary low pressure regulator, gauge, and additional outlet fitting. <b>No cart, cover or cylinders.</b>
PAK-CRT	PORTA-PAK™ cart only, 8" wheels, rear hose storage rack
PAK-CRTC	PORTA-PAK™ cart cover - aluminum
PAK-C	PORTA-PAK™ nylon cover

Cylinders sold separately - see above



**PAK-4R**  
Cylinders sold separately

## MULTI-PAK™ Air Cylinder Carts

MULTI-PAK™ SCBA cylinder carts are designed with portability in mind.  
Ideal for hazardous locations and emergency response.



**MULTI-PAK™  
2 Cylinder  
High Pressure Cart  
MP-4H**



**MULTI-PAK™  
2 Cylinder  
Rescue Cart  
MP-4R**



**MULTI-PAK™  
Cart Cover  
MP-C**

### Key Details:

- Universal hand-tight CGA-346/347 SCBA connections
- Holds 2216 PSI or 4500 PSI cylinders
- Steel frame with black powder coat paint
- Intrinsically safe low pressure alarm whistle - bell alarm optional for additional charge
- Input and output pressure gauges
- Solid aluminum block manifold
- Fold down handle
- 8" semi-pneumatic tires
- Dimensions: 21" L x 16" W x 41" H (handle up), 34.5" (handle down)
- Weight: 49 lbs (no cylinders)



**Custom applications  
always welcome!**

### MULTI-PAK™ Small Air Cylinder Carts

Item No.	Description
MP-2L	MULTI-PAK™ 2 cylinder air cart, 2216 psi, supplied with 2 outlet manifold, CGA-346 <b>wrench tight nuts</b>
MP-2H	MULTI-PAK™ 2 cylinder air cart, 4500 psi, supplied with 2 outlet manifold, CGA-346/347 <b>hand tight nuts</b>
MP-4H	MULTI-PAK™ 2 cylinder air cart, 4500 psi, supplied with 4 outlet manifold, high flow regulator, universal CGA fits CGA-346 or 347, <b>hand tight nuts</b>
MP-4R	MULTI-PAK™ Rescue Cart, holds 2 cylinders, 4500 psi, supplied with 4 outlet manifold. Additional details on page 53.
MP-TR1	Tech-Rescue™ Cart, 1/4" Hansen style or Schrader style fittings standard. Additional details on page 52.
MP-C	Cart cover - 400 denier black nylon for small MP-series carts

**Cylinders sold separately - see below**

### Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved



# MULTI-PAK™ Large Cylinder Air Carts



**MULTI-PAK™**  
Large Cylinder Air Cart  
MP-2300HNB



**MULTI-PAK™**  
Large Cylinder Air Cart  
MP-2300ENB



**MULTI-PAK™**  
Cart Cover  
MP-2300C

## Large Cylinder Air Carts - Cylinder Pressures 2400 PSI to 5000 PSI

The MULTI-PAK™ series of large air cylinder carts are designed for long duration industrial applications and built for mobility and function. The carts incorporate protected recessed controls, equipment storage boxes, a narrow profile for maneuverability, 16" pneumatic tires, and quick-release hose hangers.

### Key Details:

- Universal hand tight nuts CGA-346/347
- Fits 2400 psi or 4500 psi cylinders
- Solid aluminum block manifold
- High flow adjustable regulator
- Input and output pressure gauges
- Steel storage box with latch
- Quick release hose rack - holds 200 feet of 3/8" hose
- 16" pneumatic tires
- Dimensions: 62" H x 25" W x 30" D
- Cart only weight: 112 lbs (no cylinders)



Hose Storage Rack Holds  
200 Feet of  
3/8" Hose



### MULTI-PAK™ Large Air Cylinder Carts

Item No.	Description
MP-2300ENB	MULTI-PAK™ 2 cylinder air cart, 5000 psi, <b>pneumatic alarm whistle</b> (bell alarm available) for Hazardous Locations. 112 lbs. with no cylinders.
MP-2300HNB	MULTI-PAK™ 2 cylinder air cart, 5000 psi, <b>electronic alarm whistle</b> for Non-Hazardous Locations. 115 lbs. with no cylinders.
MP-2300C	Black nylon cart cover for 2300 series carts

Cylinders sold separately - see below

### Air Storage Cylinders

Item No.	Description
AC-300	300 cf CGA-346, 2400 psi, steel, DOT/TC approved
AC-444	444 cf CGA-347, 4500 psi, steel, DOT/TC/ISO/UN approved
AC-472	472 cf CGA-347, 5000 psi, steel, DOT/TC/ISO/UN approved



Steel Rear Storage Box

## Ergo-Air® Cart

Air Systems' innovative Ergo-Air® cylinder air cart is ergonomically designed to support the weight of the cylinders while on the cart, helping to prevent back injuries and facilitate mobility. The Ergo-Air® Cart features one-hand operation during raising or lowering of the air control panel and cylinders.

The Ergo-Air® Cart offers numerous options: tire type, storage cabinet, hose reel type, and length of hose to store. Let us customize an Ergo-Air® Cart for your work requirements.

### Helps Reduce Lifting Injuries

Ergonomically designed to support the weight of the cylinders for ease of transport and use

Ergo-Air® is a Registered Trademark of Air Systems International, Inc.



**Basic Ergo-Air® Cart**  
Semi-Pneumatic Tires  
EAC-97HNB



To Build A Custom Ergo-Air® Cart, Contact Customer Service to Walk You Through the Steps!

#### Key Details:

- Raising the cart takes 15 lbs of force
- Lowering the cart takes only 35 lbs of force
- Steel air control panel with 4 outlet respirator manifold
- Air pressure regulator rated up to 5500 psi
- High pressure hardware with in-line check valves
- 16" semi-pneumatic or pneumatic rear tires
- Front locking swivel casters (6" or 8")
- Twin cylinder straps with padded brackets
- Cart lifting hooks

#### Cart Dimensions:

**Semi-pneumatic Tires:** 32" W x 41" D x 62" H

**Pneumatic Tires:** 40" W x 44" D x 62" H

**Weight:** 156 lbs (cart only)

### Ergo-Air® Carts - Hazardous Locations

Item No.	Description
	<b>Pneumatic Tires, 5000 psi Regulator, &amp; Low Pressure Whistle</b>
EAC-97PHNB	Ergo-Air® cart, 5000 psi regulator, low pressure whistle, pneumatic tires
EAC-97PS2A	Ergo-Air® cart, upper storage box, 2 auto hose reels - holds 50 feet of 3/8" hose per reel
EAC-97PS3M	Ergo-Air® cart, upper storage box, 1 manual hose reel - holds 200 feet of 1/2" or 300 foot of 3/8" hose
EAC-97PSM2	Ergo-Air® cart, upper storage box, 2 manual hose reels - holds 100 feet of 3/8" hose per reel
	<b>Semi-Pneumatic Tires, 5000 psi Regulator, &amp; Low Pressure Whistle</b>
EAC-97HNB	Ergo-Air® cart, 5000 psi regulator, low pressure whistle, semi-pneumatic tires
EAC-97SBA2	Ergo-Air® cart, upper storage box, 2 auto hose reels - holds 50 feet of 3/8" hose per reel
EAC-97SBM3	Ergo-Air® cart, upper storage box, 1 manual hose reel - holds 200 feet of 1/2" or 300 foot of 3/8" hose
EAC-97SB2M	Ergo-Air® cart, upper storage box, 2 manual hose reels - holds 100 feet of 3/8" hose per reel
EAC-C	Nylon cart cover - fits all Ergo-Air® carts



For Use In Hazardous Locations

Hose (pages 23-24) and Cylinders (page 42) Sold Separately

## Ergo-Air® Cart



**Ergo-Air® Cart  
EAC-97SB2M**

Semi-pneumatic tires, upper storage cabinet, and two manual reels.



**Ergo-Air® Cart  
EAC-97PS2A**

Pneumatic tires, upper storage cabinet, and two automatic reels.



**Ergo-Air® Cart  
EAC-97SBM3**

Semi-pneumatic tires, upper storage cabinet, and manual reel.

Cylinders & Hose Sold Separately

## Air-Trolley™ SCBA Cart

### Applications

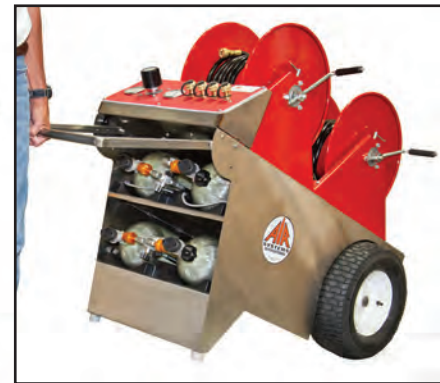
- Remote Locations
- Hazardous Locations
- Emergency Response
- Equipment Rentals

### Key Details:

- Holds four 87 cf SCBA cylinders
- Four outlet respirator manifold
- Two 300 foot manual hose reels
- Stainless steel body
- Drop down handle
- Easy access to cylinders
- 16" semi-pneumatic or pneumatic rear tires
- Cylinders and hose sold separately



**Air-Trolley™  
AT-2300P**



Handle up for transport



**Semi-Pneumatic Tires  
AT-2300**

### Air-Trolley™ Breathing Air Cylinder Cart

Item No.	Description
AT-2300	Air-Trolley™ four cylinder cart with 16" semi-pneumatic tires,- 4500 psi, supplied with four outlet manifold, four high pressure whips, CGA-347 hand-tight nuts. Two 300 ft manual hose reels
AT-2300P	Air-Trolley™ four cylinder cart with 16" pneumatic tires. 4500 psi, supplied with four outlet manifold, four high pressure whips, CGA-347 hand-tight nuts. Two 300 ft manual hose reels

Cylinders (page 38) and hose (page 24) sold separately

# Breathing Air Transporter™

**Breathing Air Where You Need It!**

Designed to support the cylinders while reducing potential injuries and improving mobility.



Patent Pending



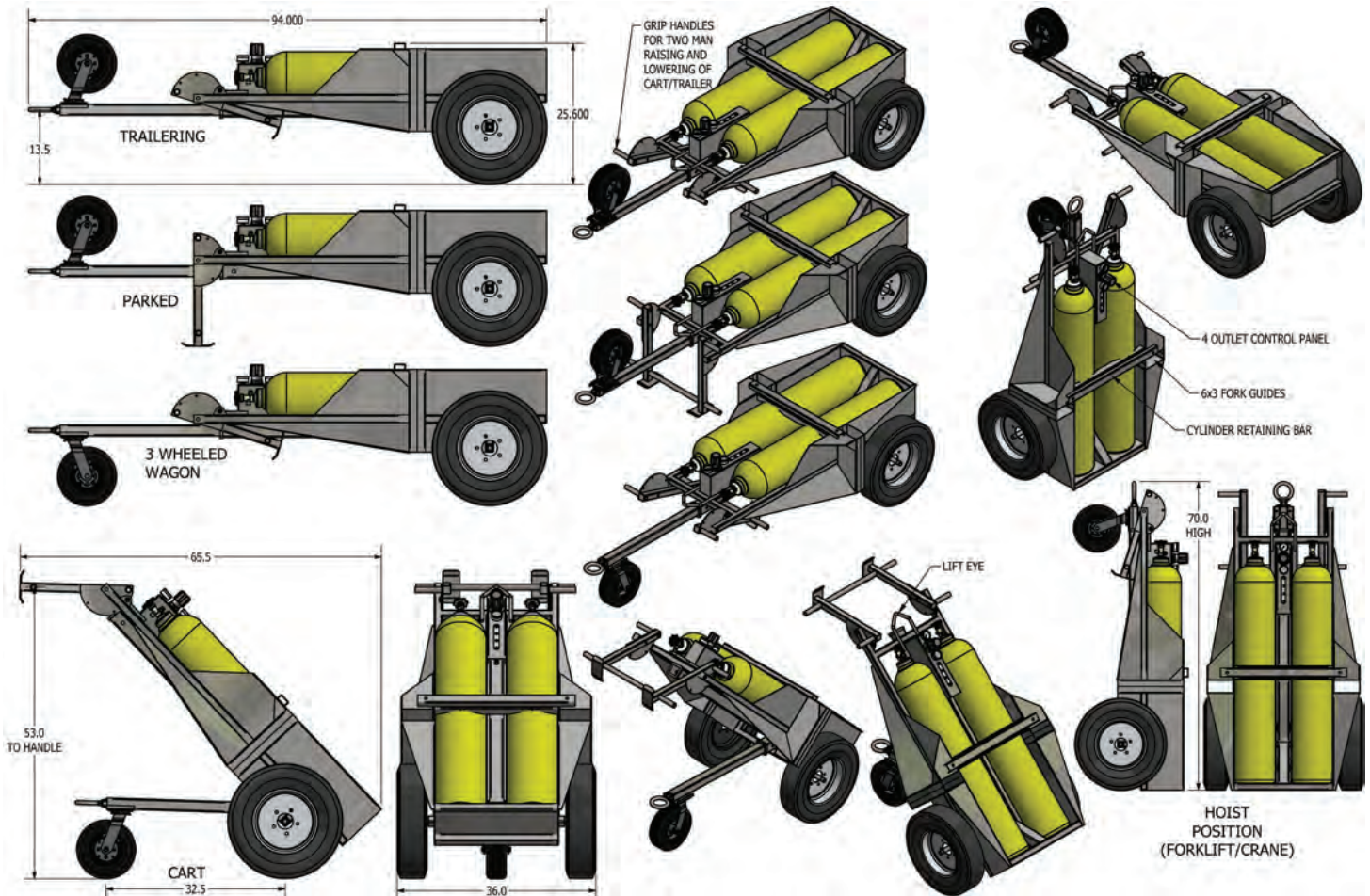
## Key Details:

- Steel frame with black powder coat paint
- 4 outlet manifold with regulator, relief valve, whistle alarm, and pressure gauges
- Universal CGA-346/CGA-347 wrench tight connectors allow use of 2400 psi or 4500 psi cylinders. 6000 psi connectors available.
- 45 lbs of lift required to move from horizontal to vertical position
- Lunette ring for Pintle Hitch connection
- **Pneumatic Tires:**
  - 21" rear tires - highway rated
  - 10" front swivel tire - rated for 350 lbs
- **Trailer Dimensions:** 94" L x 25" H x 36" W
- **Vertically Stored Dimensions:** 70" H
- **Weight:**
  - 262 lbs empty
  - 570 lbs with two 444 cf air cylinders



# So Many Ways to Use it!

The Breathing Air Transporter™ holds two large air cylinders and contains a 4 outlet breathing air manifold. The BAT can be towed or used as a mobile push cart in several configurations. Fork lift guides and a center lift eye are included for easy transportation to where you need it.



## Breathing Air Transporter™ (BAT) Large Air Cylinder Trailer

Item No.	Description
BAT-2B	BAT 2 cylinder air cart, 5000 psi, pneumatic alarm whistle

Cylinders sold separately - see below

## Air Storage Cylinders

Item No.	Description
AC-300	300 cf CGA-346, 2400 psi, steel, DOT/TC approved
AC-444	444 cf CGA-347, 4500 psi, steel, DOT/TC/ISO/UN approved
AC-472	472 cf CGA-347, 5000 psi, steel, DOT/TC/ISO/UN approved

**Breathing Air Transporter™ (BAT) Setup  
Brochure Available at [www.airsystems.com](http://www.airsystems.com)**



Other colors available. Contact  
Customer Service for more information.

# Custom Designed Low Pressure Filtration Systems

Air Systems' engineering and design team will manufacture a custom Grade-D breathing air system to meet your most stringent needs.

Plant Filtration Systems Available Up To 3000 cfm



BB700-COPM  
700 cfm Grade-D  
Air Filtration



Custom Plant Breathing Air System



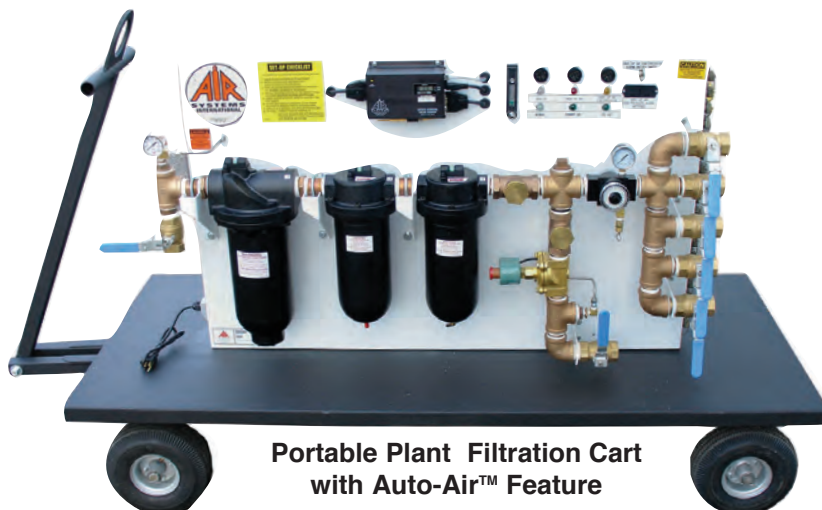
Grade-D Filtration  
for Clean Room Applications

Fully enclosed breathing air trailer with fill compressor, air storage cylinders, and fill containment station

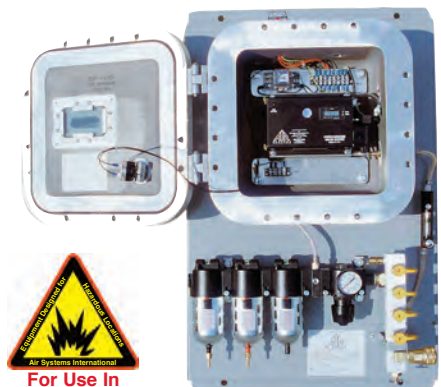
Optional sound proofing, air conditioning or heating packages, generators, and lighting package



**Call Customer Service  
for Additional Details**



Portable Plant Filtration Cart  
with Auto-Air™ Feature



Explosion-Proof  
Grade-D Filtration Panel

# Custom Designed High Pressure Breathing Air Cylinder Carts and Trailers

Air Systems' experienced technical staff and engineering department can design a breathing air trailer with custom storage and air delivery for ANY application. Custom mobile air cylinder carts are available for industrial plant and emergency response applications.



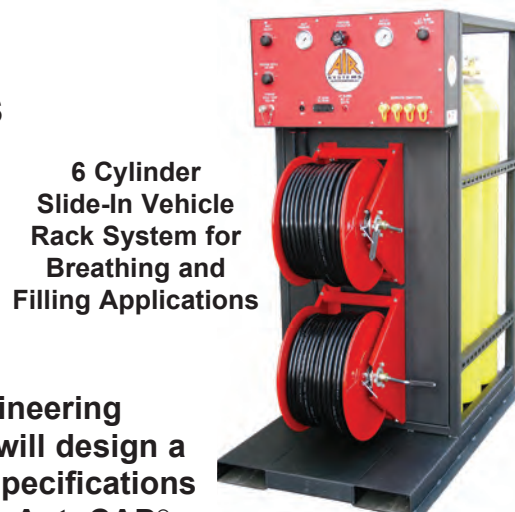
Emergency Response Trailers for Long Duration Breathing and /or Cylinder Filling Applications



Long Duration Air Storage Hazardous Response Trailers



Custom Response Trailer



6 Cylinder Slide-In Vehicle Rack System for Breathing and Filling Applications

Our Engineering Department will design a cart to your specifications and provide AutoCAD® drawings for approval.

Small SCBA Cylinder Rack System



Call Customer Service for Additional Details

All carts can be customized to meet your particular application.



Custom Air-Wagon™

Custom Trailers Designed for Mobile Breathing Air Applications and Quick Filling of SCBA Cylinders



# MACK™ - Multi Air Command Kits

**Air Distribution for Breathing, Filling, and Rescue Applications  
Designed and Tested By Fire and Rescue Professionals**

**Multi Air  
Command System  
MACK-1**



The MACK™ System was designed as a portable air distribution box to meet the most demanding air handling needs of the Fire, Rescue, and Emergency Response industries. Each unit has been designed and tested by professional firefighters to meet NFPA requirements.

All MACK™ Series units start with the MACK-1™ basic functions. One or two SCBA cylinders provide air to the system. A CGA-347 high pressure inlet is also provided to allow continuous operation from truck mounted air cylinders. A low pressure regulator provides 0-125 psi air to a four outlet respirator manifold. A low pressure alarm whistle and a DC lamp to illuminate the case interior are provided standard.

All models have been manufactured to provide emergency low pressure breathing air from either SCBA cylinders or a bank of large storage cylinders located on department vehicles. More advanced models offer multiple air pressure regulators for confined space rescue operations, mid-range pressure for rescue tool devices, and high pressure emergency air cylinder filling systems. Choose a standard MACK™ unit to meet your needs or customize a unit for your department's special air handling applications.

### MACK-1™ Key Details:

- 4 outlet manifold
- CGA-347 male adapter used as a high pressure auxiliary inlet. It can be connected to a high pressure compressor or a truck mounted cascade system.
- Low pressure breathing air manifold, 125 psi maximum
- Inlet whips are connected to 2216 or 4500 psi cylinders
- Low pressure alarm whistles
- Light for operation in low light conditions

### MACK-2™ Key Details:

- MACK-1 specifications above
- High pressure fill regulator
- Fill Whip



MACK-2

### MACK™ Series

Item No.	Description
MACK-1	4 outlet manifold, 5000 psi regulator, 2 high pressure cylinder whips, 1 high pressure inlet port, low pressure alarm whistle
MACK-2	MACK-1 with the addition of a high pressure fill regulator and 1 fill whip

Cylinders sold separately - see below

### SCBA Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved



MACK-2

## MACK-NFPA™ Rescue Series

### For Confined Space Rescue Teams

The MACK-NFPA™ series was developed specifically for Fire/Rescue teams working under NFPA guidelines. The NFPA version of the MACK™ unit comes in two standard models. Each has two separate regulator/manifold systems and two SCBA connect whips provided for each regulator. In the event of a regulator malfunction, the standby regulator system serves as a back-up.

The MACK-NFPA3™ adds a regulator isolation valve to allow one or both air sources to be used simultaneously.



MACK-NFPA3

### MACK-NFPA™ Series

Item No.	Description
MACK-NFPA1	Dual independent regulators with 3-outlet manifolds, dual low pressure alarms, 4 each 5 foot connect whips
MACK-NFPA3	MACK-NFPA1 with the addition of a regulator isolation valve and CGA-347 H/P inlet and cover cap

Cylinders sold separately - see above

# The MACK-3™ System

## Designed and Used by Fire & Rescue Professionals

The MACK-3™ System contains an isolation valve used to separate breathing air manifolds so the unit can be used in rescue operations. The MACK-3™ was designed to conform with NFPA confined space entry rescue regulations.

**Three (3) separately regulated manifolds provide a portable air distribution package for cylinders up to 4,500 psi (5,500 psi option available).**



**MACK-3™**

### Key Details:

- CGA-347 male inlet adapter supplied with pressure cap to connect to a high pressure cylinder system
- Air source isolation valve
- One low pressure, 125 psi, breathing air manifold with relief valve
- One low pressure manifold, max 125 psi, for lift bags and tools
- One medium pressure regulator, 275 psi maximum, for air tools
- Inlet whips can be connected to 2216 or 4500 psi cylinder
- Low pressure alarm whistle
- Optional cylinder fill regulator (MACK-3FA)



**MACK-3™ with optional MACK-3FA fill regulator to fill high pressure cylinders**



### MACK-3™

Item No.	Description
<b>MACK-3</b>	8 low pressure respirator/tool outlets (0-125 psi), 3 medium pressure outlets (0-250 psi), 4 high pressure inlet whips (5000 psi), 1 high pressure CGA-347 inlet and pressure cap, low pressure alarm whistle
<b>MACK-3FA</b>	SCBA fill regulator assembly includes 5 foot fill whip, on/off valve, bleed valve, pressure gauge, CGA-347 universal hand tight nut, and 2HK couplings

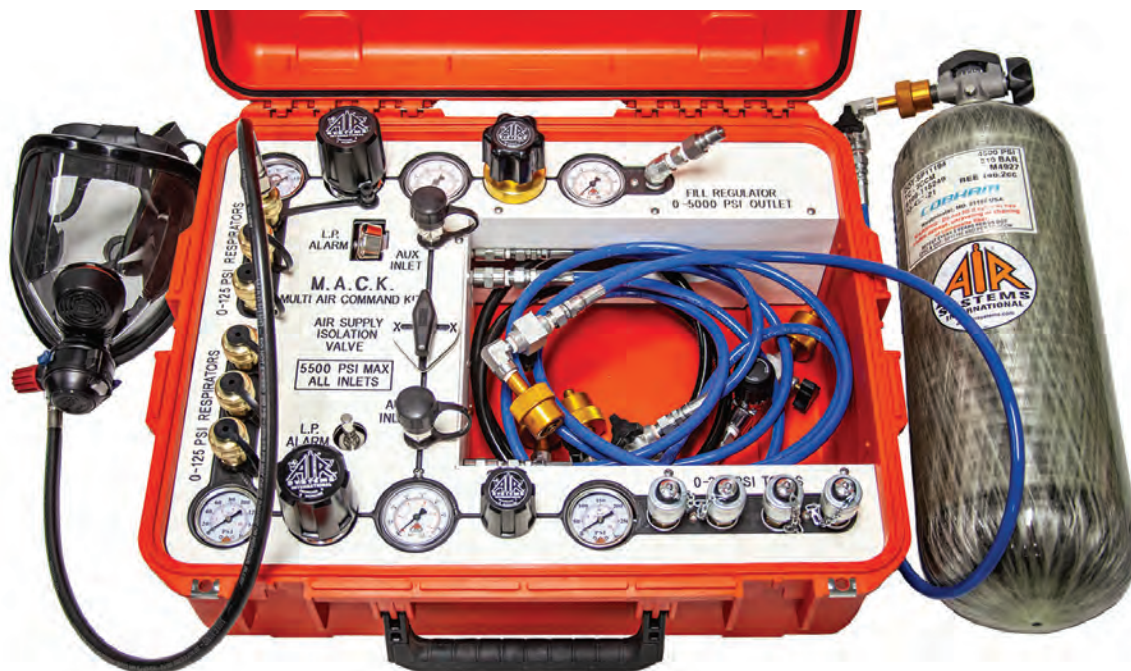
**Cylinders sold separately - see page 53**

# The MACK-5500™ Series

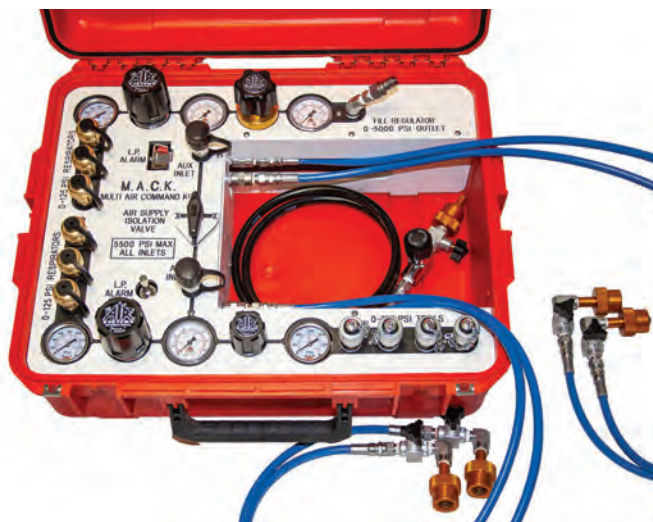
## Designed For 5500 psi High Pressure Cylinders

The **MACK-5500™** (Multi-Air Command Kit) Series retains all the features and functionality of a standard MACK-3™ unit, with the added benefit of higher incoming pressures for today's SCBA's and mobile cascade systems. Newly developed breathing air regulators now handle the rigors of cycling inlet pressures ranging from 500 psi to 5,500 psi while precisely maintaining outlet pressures and flow to the connected respirators.

With a “set and forget” outlet control and easily identifiable and manageable air circuits, the operating attendant is now free to manage and cycle the various input sources as needed.



Inside the MACK-5500™



### Key Details:

- Four (4) Flexible incoming 346/347 SCBA connect whips
- Two (2) Incoming CGA-347 Male Adapters
- One (1) air source isolation valve
- One (1) low pressure warning bell, 500 psi alarm set point
- One (1) low pressure warning whistle, 500 psi alarm set point
- Two (2) incoming pressure gauges 0- 7,500 psi
- Two (2) 0-5,500 psi input, 0-125 psi adjustable breathing air regulators
- One (1) 0-5,500 psi input, 0-275 psi adjustable tool air regulator
- One (1) 0-5,500 psi input, 0-5,000 psi adjustable SCBA fill regulator
- One (1) 5,000 psi rated SCBA fill whip with on/off valve, bleeder valve, and CGA-346/347 hand-tight cylinder valve connection

### MACK-5500™

Item No.	Description
MACK-5500	6 low pressure respirator/tool couplings (0-125 psi), 4 medium pressure couplings (0-250 psi), 4 high pressure inlet whips (5500 psi), 2 high pressure CGA-347 inlets and pressure caps, low pressure alarm whistle & bell

Cylinders sold separately - see page 53



# Tech-Rescue™ Cart



Tech-Rescue™ Cart  
MP-TR1



Tech-Rescue™  
Control Panel  
MP-TR1



Cart Cover  
MP-C



QFH-5MPTR1  
SCBA Quick-Fill Hose Option

The Tech-Rescue™ Cart is designed to provide air for respirators and rescue tools used by Fire and Technical Rescue teams. The stainless steel cart comes with a color-designated control panel; one side for primary respirator breathing air and the other for tool and rescue air requirements. Two 4500 psi cylinders or remote high pressure cascade cylinder air can be used to operate the air control panel. The functionality of the Tech-Rescue™ Cart makes it the most versatile air cart in the fire service industry.



## Key Details:

- Stainless Steel Cart
- Collapsible Handle
- Upper & Lower Hose Rack

**Dimensions:** 21" L x 16" W x 41" H  
(handle up), 34.5" (handle down)

**Weight:** 49 lbs (no cylinders)

### Yellow - Respirator Side:

- Respirator L/P Alarm Whistle
- 0-125 psi Output Regulator
- 4 Respirator Fittings

### Blue - Tool Side:

- High/Low Pressure Relief Valve Switch
- CGA-347 Auxiliary Inlet
- Tool Air L/P Alarm Bell
- Air Isolation Valve
- 0-250 psi Output Tool Regulator
- 4 Tool Fittings, User Specified
- Low Pressure (125 psi) Air Regulator
- Tool/Lift Bag Fitting

## Tech-Rescue™ Cart & Accessories

Item No.	Description
MP-TR1	Tech-Rescue™ Cart, 1/4" Hansen style or Schrader style fittings standard.
QFH-5MPTR1	5 foot Quick-Fill hose installed on MP-TR1 (installed at time of order)
CW-300	25 foot high pressure connect whip, CGA-347 hand tight (both ends) with bleed valves, connects from cart to truck cascade air supply - 5000 psi
MP-C	Black nylon cart cover, fits MP-TR1 cart

Cylinders sold separately - see below

## Air Storage Cylinders

Item No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum, DOT/TC/ISO/UN
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber, DOT/TC approved

# MULTI-PAK™ Rescue Air Cart



MULTI-PAK™  
2 Cylinder  
Rescue Cart  
MP-4R



The MULTI-PAK™ Rescue Air Cart offers many of the same features as the Tech-Rescue™ Cart at a more economical price. SCBA cylinders provide breathing air and a second low-pressure regulator for air tools or lift bags. The Rescue Air Cart is supplied with a high pressure CGA-347 inlet for extended use.

### Key Details:

- CGA-347 Auxiliary Inlet
- Cylinder selection switch
- Black powder coated steel frame, stainless steel frame available
- Low pressure regulator for pneumatic tools / lift bags, 0 - 125 psi, 1 outlet
- Intrinsically safe low pressure alarm whistle
- Input and output pressure gauges
- Solid aluminum block manifold

**Dimensions:** 21" L x 16" W x 41" H (handle up), 34.5" H (handle down)

**Weight:** 49 lbs (no cylinders)

### MULTI-PAK™ Small Air Cylinder Carts

Item No.	Description
MP-4R	MULTI-PAK™ Rescue Cart, holds 2 cylinders, 4500 psi, 4 outlet manifold, high flow regulator, universal CGA fits CGA-346 or 347, <b>hand tight nuts</b>
MP-C	Cart cover - 400 denier black nylon for small MP-series carts

Cylinders sold separately - See Page 53

## Custom Air-Responder™ Mobile Breathing Air Trailer

The Air Responder™ series of breathing air trailers are designed for mobile response at an economical price. Trailers can be designed for filling SCBAs at a remote location or distribution of breathing air to respirators and tools, or both.

The air control panel is weatherproof marine board or painted metal for durability. Hose reels, storage boxes, frag tubes, and a variety of air pressure options are just a few of the many options offered.

Air Systems can design and build an Air-Trailer™ to meet your demanding needs and applications.



### Custom Fire / Rescue Trailers and Accessories

Air Systems' experienced technical staff and engineering department can design a mobile breathing air response system tailored to your exact requirements.

Contact Customer Service for options and specifications

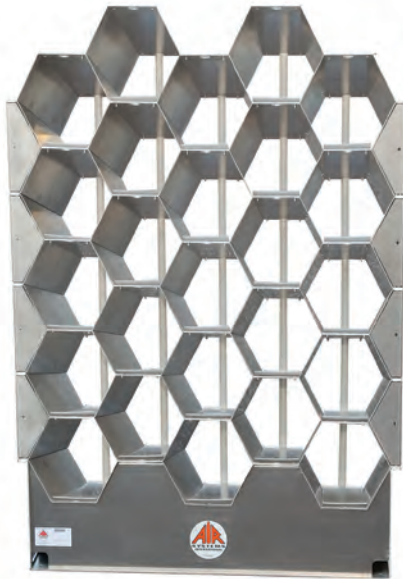


# AIR-KADDY™

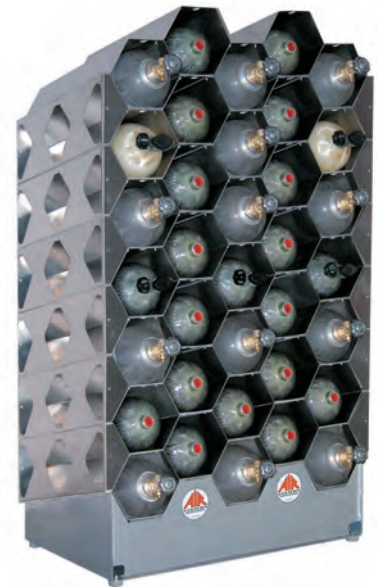
## Modular Aluminum SCBA Cylinder Storage Racks



**AIR-KADDY™ With Thread Savers®  
AK24-11TS**



**AIR-KADDY™  
AK40-25**



**AIR-KADDY™ with Cylinders  
AK40-35**

AIR-KADDY's™ unique modular design allows for expansion as needed to accommodate your SCBA storage requirements - today and in the future! Available in free standing, Series 40, and vehicle style, Series 24, narrow profile. All racks are lined with nylon pads to prevent cylinder scratches. Custom sizes available.

### AIR-KADDY™ - Series 24 for Vehicles For Fire/Rescue Vehicles Requiring Narrow Profile

Item No.	Description
AK24-8	AIR-KADDY™ 8 cylinder rack - 32" H x 25¼" W x 22¼" D
AK24-11	AIR-KADDY™ 11 cylinder rack - 48" H x 25¼" W x 22¼" D
AK24-18	AIR-KADDY™ 18 cylinder rack - 60" H x 25¼" W x 22¼" D
AK24-24	AIR-KADDY™ 24 cylinder rack - 76" H x 25¼" W x 22¼" D

### AIR-KADDY™ - Series 40 - Free Standing

Item No.	Description
AK40-15	AIR-KADDY™ 15 cylinder rack - 36" H x 37½" W x 22½" D
AK40-25	AIR-KADDY™ 25 cylinder rack - 60" H x 37½" W x 22½" D
AK40-35	AIR-KADDY™ 35 cylinder rack - 68" H x 37½" W x 22½" D
AK40-40	AIR-KADDY™ 40 cylinder rack - 76" H x 37½" W x 22½" D

**AIR-KADDY™ 8, 11, and 15 cylinder storage racks can be cart mounted.**

### Thread Saver®

Item No.	Description
VAL-TS	Thread Saver® - cylinder thread protector

Add TS to the AIR-KADDY™ model number to have Thread Savers® installed.



**Thread Saver®**



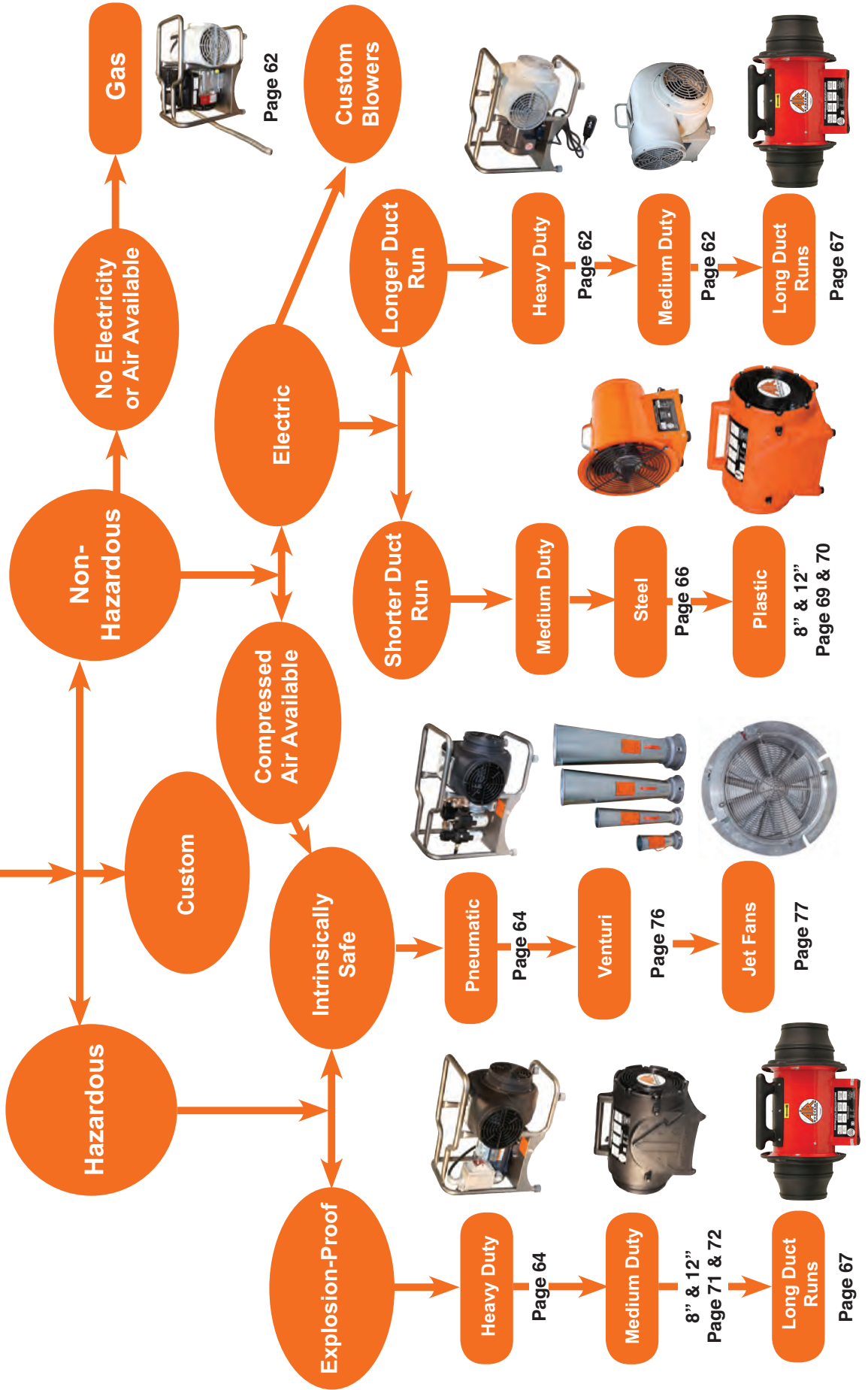
**AIR-KADDY™ Racks in Fire Truck  
AK24-11**





# Blower & Fan Selection Guide

## Atmospheric Testing Results



## The Industrial Saddle Vent® Designed to Ventilate Non-Hazardous Locations

The Saddle Vent® was developed by Air Systems and has been in use around the world for over 30 years to make it easier and safer for workers to enter and exit a confined space. The Saddle Vent® takes up only 3 inches in a manhole opening and functions as a fresh air conduit to the workers in the confined space. With the Saddle Vent® in place, continuous ventilation is supplied to the workers by eliminating the need to remove the air duct each time a worker needs to enter or exit a confined space, increasing both safety and productivity.



The Saddle Vent® allows unrestricted entry and exit and improves ambient light in a confined space opening.

Saddle Vent® is a Registered Trademark of Air Systems International, Inc.

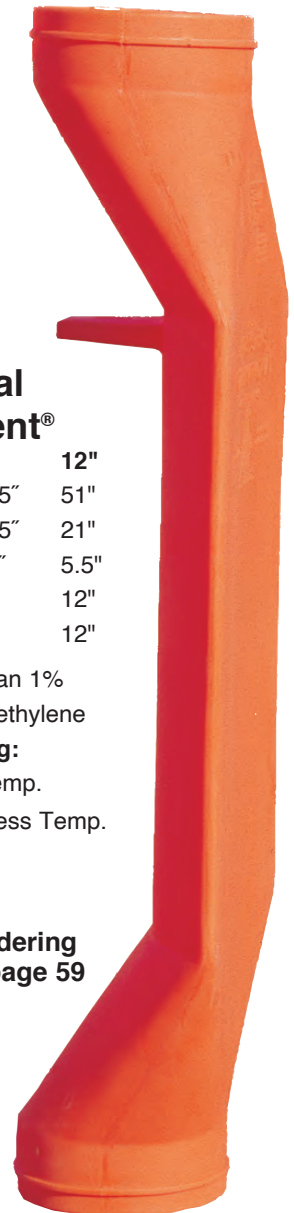


### Industrial Saddle Vent®

Model:	8"	12"
Length:	43.5"	51"
Width:	14.5"	21"
Depth:	3.5"	5.5"
Top O.D.:	8"	12"
Bottom O.D.:	8"	12"

- Flow Loss: Less than 1%
- Construction: Polyethylene
- Temperature Rating:
  - +220°F Melt Temp.
  - 158°F Brittleness Temp.

Saddle Vent® ordering information on page 59



## The Conductive Saddle Vent® System Designed to Ventilate Hazardous Locations

### The Saddle Vent® Safety Improvements

The original Saddle Vent® was constructed of standard polyethylene which carries the potential of static electricity build-up on its surface. Static electricity is a source of ignition for fire and explosions. Air Systems developed an improved Saddle Vent® to safely remove potential static electrical charges from the ventilation system. The use of conductive polyethylene to construct the Saddle Vent®, and conductive ventilation duct, now provides the safest possible confined space ventilation procedure available.

**The fully Conductive Saddle Vent® removes static electricity from the entire ventilation system when installed properly.**



See the Conductive Saddle Vent® System Set Up Procedure at [www.airsystems.com](http://www.airsystems.com)



### Patents:

United States Patents #6,843,274  
#7,467,645  
#7,992,593 B2  
Canadian Patents #2,561,299  
#2,436,809

### Conductive Saddle Vent®

Model:	8"	12"
Length:	43.5"	51"
Width:	14.5"	21"
Depth:	3.5"	5.5"
Top O.D.:	8"	12"
Bottom O.D.:	8"	12"

- **Flow Loss:** Less than 1%
- **Construction:** Conductive Anti-Static Polyethylene
- **Temperature Rating:**
  - +220°F Melt Temp.
  - 158°F Brittleness Temp.



For work in hazardous locations, read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

Saddle Vent® is a Registered Trademark of Air Systems International, Inc.

Saddle Vent® ordering information on page 59



## The Saddle Vent®

8" Industrial Saddle Vent®  
SV-189



8" Conductive Saddle Vent®  
SV-189CND



12" Industrial Saddle Vent®  
SV-18912-O



12" Conductive Saddle Vent®  
SV-18912-B



90° Elbow - 8"  
SV-90



Conductive 90° Elbow - 8"  
SV-90CND



Tank 90° Elbow - 8"  
SV-90T



Universal Mount  
SV-UM

### The Saddle Vent®

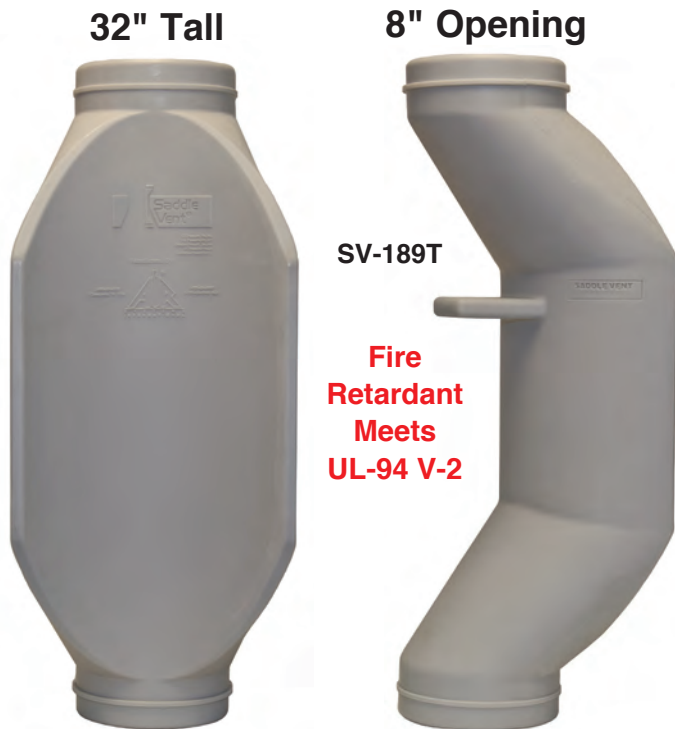
Item No.	Description
SV-189	<b>For Non-Hazardous Locations</b> 8" Industrial Saddle Vent® - orange
SV-18912-O	12" Industrial Saddle Vent® - orange
SV-90	90° elbow - orange. Fits 8" Saddle Vent®
SV-189CND	<b>For Hazardous Locations</b> 8" Conductive Saddle Vent® - black
SV-18912-B	12" Conductive Saddle Vent® - black
SV-90CND	Conductive 90° elbow - black. Fits 8" Saddle Vent®
SV-UM	<b>Accessories</b> Universal Saddle Vent® mounting bracket - steel



# Saddle Vent® For Special Applications

## The Tank Saddle Vent®

The Tank Saddle Vent® is designed to provide fresh air ventilation to any ship space. The unique shape allows its use in entry ports while not obstructing entry or egress to the ladder. Its unique design fits 18" X 20" oval openings and 20" or smaller round openings. The Tank Saddle Vent® is grey polyethylene with fire retardant additives. **DOD approved for US Navy use.**



**Custom industrial sizes available.  
Contact Customer Service for more information**

### The Tank Saddle Vent®

Item No.	Description
SV-189T	8" Tank Saddle Vent®, grey, fire retardant
SV-90T	90° elbow to fit 8" Tank Saddle Vent® - grey, fire retardant

Designed to fit 18"W x 20"L oval shipboard hatch openings

## The Saddlator™

### Pneumatic Powered Saddle Vent® Blower

The Saddlator™ provides positive or negative pressure ventilation for confined space entry operations in large work areas or tanks and is ideal for hazardous environments.

#### Key Details:

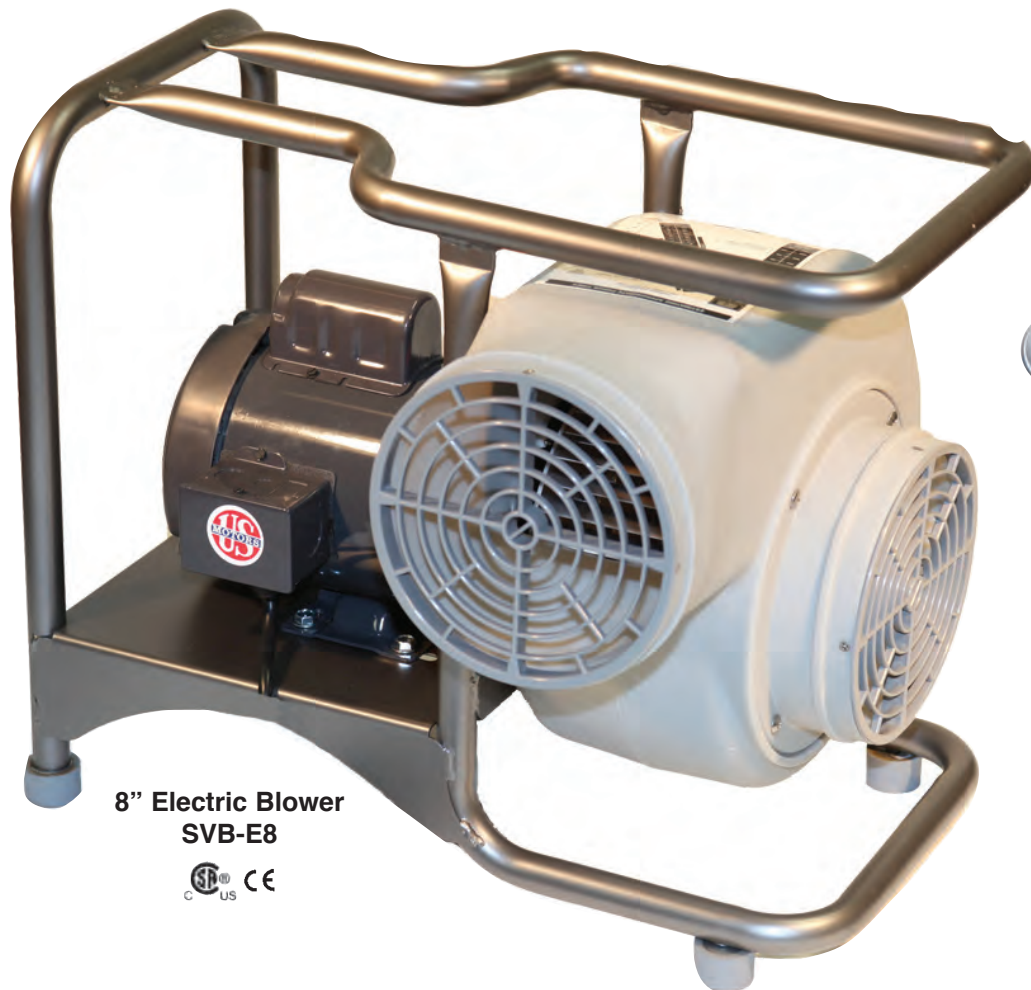
- Conductive 8" Saddle Vent® with Venturi blower installed
- 90° bolt-on conductive elbow, supplied
- Air operated with no moving parts
- 1/2" Industrial Interchange plug
- Static ground lug installed
- Delivers 2000 - 3000 cfm with pressures from 50 -100 psi

### The Saddlator™

Item No.	Description
SV189-29	Saddlator™, positive pressure flow, and elbow
SV189-29-N	Saddlator™, negative pressure flow, and elbow
SV90-29	90° bolt-on elbow to fit Saddlator™
SV189T-29	Tank Saddlator™, positive pressure flow, and elbow
H-50-5	1/2" compressor connect hose w/O/D fitting - 50 foot
H-50-12	3/4" compressor connect hose w/O/D fitting - 50 foot



## 8" Heavy Duty, Industrial Grade, Ergonomically Designed Centrifugal Blowers for *Non-Hazardous Locations*



8" Electric Blower  
SVB-E8



Model	Model No.	Speed	Free Air	25' 1-90° Bend	25' 2-90° Bends
Economy Blower (60 Hz)	SVB-E8EC	1 Speed	1,390 CFM	931 CFM	779 CFM
Standard Blower (60 Hz)	SVB-E8	1 Speed	1,570 CFM	1,047 CFM	873 CFM
Standard Blower (50 Hz)	SVB-E850	1 Speed	1,308 CFM	873 CFM	728 CFM
2-Speed Blower (60 Hz)	SVB-E8-2	High	1,570 CFM	1,047 CFM	873 CFM
		Low	750 CFM	490 CFM	425 CFM
Gasoline Blower	SVB-G8	High	3,000 CFM	1,725 CFM	1,295 CFM
		Low	1,500 CFM	1,040 CFM	870 CFM

### Key Details:

- 8" intake and exhaust
- Non-sparking aluminum blower wheel
- Polyethylene fan housing & safety guards
- Molded polyethylene safety guards
- Powder coated tubular steel frame, dual handles

### Applications

- Confined Space Entry
- Tank Entry
- Sewer Repair
- Construction & Maintenance



**8" Economy Electric Blower SVB-E8EC**



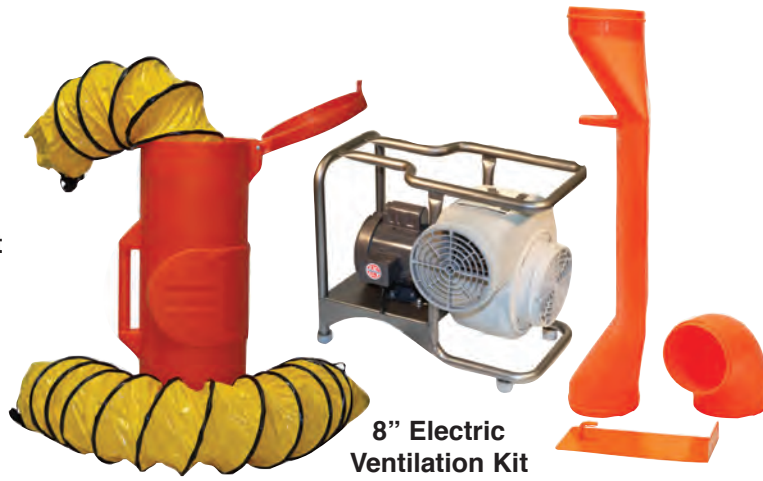
**8" Electric Blower SVB-E8-2**



**8" Gas Blower SVB-G8**



**8" Electric Ventilation Kit SVB-E8CUP**



**8" Electric Ventilation Kit SVB-E8SCUP**

## 8" Centrifugal Blowers - Non-Hazardous Locations

Item No.	Description
SVB-E8EC	Electric (Economy) motor - 1/2 HP, TEFC, 115 VAC, 8 amps, 60 Hz, GFI power cord. CSA C/US Certified. CE Registered. 43 lbs
SVB-E8	Electric motor - 3/4 HP, TEFC, 115 VAC, 10.8 amp, 60 Hz, GFI power cord. CSA C/US Certified. CE Registered. 62 lbs
SVB-E850	Electric motor - 3/4 HP, 230 VAC, 50 Hz, TEFC, specify plug. CE Registered. 53 lbs
SVB-E8-2	Electric (2-speed) motor - 3/4 HP, 2-speed, TEFC, 115 VAC, 11.5 amp, 60 Hz, GFI power cord. CSA C/US Certified. CE Registered. 72 lbs
SVB-G8	Gasoline motor - 127 cc Briggs & Stratton (approximately 4 HP), 5' remote flexible steel hose. CE Registered. 62 lbs
SVB-G8-H	Gasoline motor - 118 cc Honda (approximately 4 HP), 5' remote flexible steel hose. CE Registered. 62 lbs

## 8" Saddle Vent Kits® - Non-Hazardous Locations

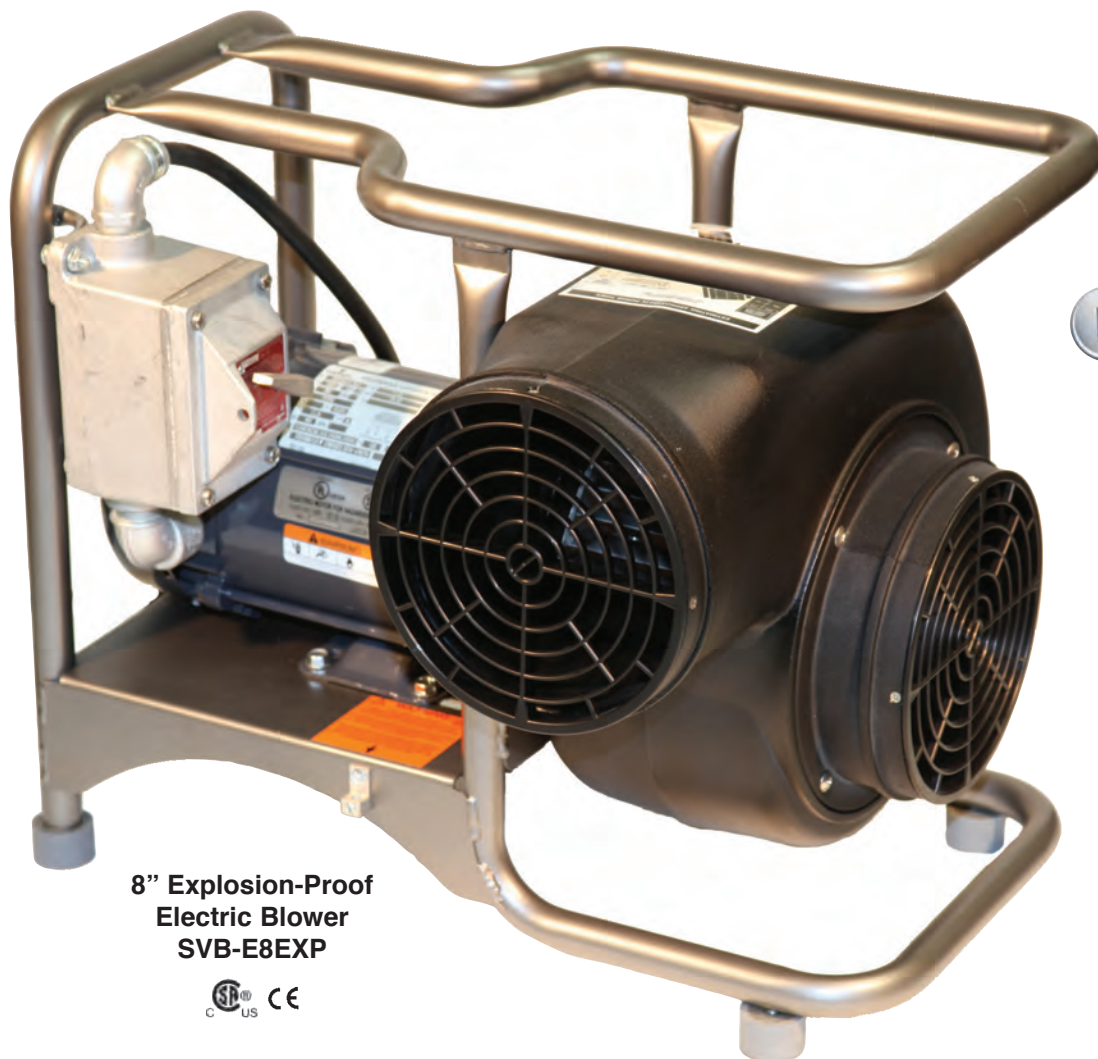
Item No.	Description
SVB-E8CUP	SVB-E8EC electric blower and SV-CUP Kit
SVB-E8SCUP	SVB-E8 electric blower and SV-CUP Kit
SVB-E82CUP	SVB-E8-2 two speed electric blower and SV-CUP Kit
SVB-G8CUP	SVB-G8 gasoline blower (Briggs & Stratton) and SV-CUP Kit
SVB-G8HCUP	SVB-G8-H gasoline blower (Honda) and SV-CUP Kit
SV-CUP	<b>Ventilation Kit:</b> Industrial Saddle Vent®, 90° elbow, 6 and 15 foot duct, duct canister, and universal mount



**Ventilation Kit SV-CUP**



## 8" Heavy Duty, Industrial Grade, Ergonomically Designed Centrifugal Blowers for Hazardous Locations



8" Explosion-Proof Electric Blower SVB-E8EXP



Model	Model No.	Speed	Free Air	25' 1-90° Bend	25' 2-90° Bends
Exp Blower (60 Hz)	SVB-E8EXP	1 Speed	1,570 CFM	1,047 CFM	873 CFM
Exp Blower (50 Hz)	SVB-E8X250	1 Speed	1,308 CFM	872 CFM	729 CFM
Pneumatic Blower	SVB-A8	High	3,000 CFM	1,725 CFM	1,295 CFM
		Low	1,500 CFM	1,040 CFM	870 CFM

### Key Details:

- 8" intake and exhaust
- Explosion-proof on/off switch
- 25' power cord
- Explosion-proof plug not included, order separately
- Conductive polyethylene fan housing & safety guards
- Aluminum non-sparking wheel
- Static grounding lug installed
- Powder coated tubular steel frame, dual handles

### Applications

- Painting and Blasting
- Confined Space Entry
- Tank Entry
- Sewer Repair
- Construction and Maintenance
- Grain Silos



**8" Intrinsically Safe  
Pneumatic Blower  
SVB-A8**



**8" Conductive Ventilation Kit  
SV-CUPCND**

**Approved for Hazardous Location Usage:**

**SVB-E8EXP** - CSA C/US certified for Classes I and II, Groups C, D, E, F, and G.

**SVB-A8** - CE Registered

## 8" Centrifugal Blowers for Hazardous Locations

Item No.	Description
<b>SVB-E8EXP</b>	Explosion-proof electric blower - 3/4 HP, 115 VAC, 60 Hz, 12.6 amp. CSA C/US Certified. CE Registered. 72 lbs, <b>no plug.</b>
<b>SVB-E8X250</b>	Explosion-proof electric blower - 3/4 HP, 230 VAC, 50 Hz, 78 lbs CE Registered. <b>No plug.</b>
<b>SVB-A8</b>	Pneumatic motor - 4 HP, operates from 10-100 psi. Includes moisture/oil separator and filter. CE Registered. 61 lbs

Explosion-Proof Plug sold separately. See below.

## 8" Saddle Vent® Kits - Hazardous Locations

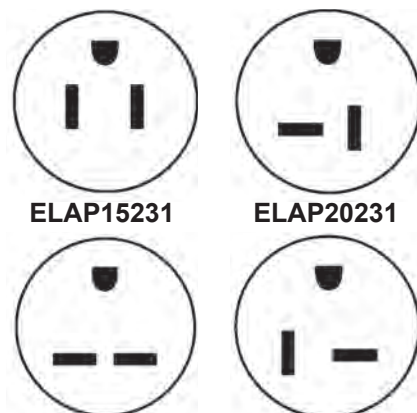
Item No.	Description
<b>SVB-E8XCUP</b>	SVB-E8EXP explosion-proof electric blower and SV-CUPCND Conductive Kit, <b>no plug.</b>
<b>SVB-A8CUP</b> <b>SV-CUPCND</b>	SVB-A8 Intrinsically Safe pneumatic blower and SV-CUPCND Kit <b>Conductive Ventilation Kit:</b> Conductive Saddle Vent®, 90° conductive elbow, 6 and 15 foot conductive duct, duct canister, and universal mount

Explosion-Proof Plug sold separately. See below.

## Explosion-Proof Plugs - Certified

Item No.	Description
<b>ELAP15231</b>	15 AMP, 125 VAC, EXP plug w/quick wiring (5-15P) USA / Canada
<b>ELAP20231</b>	20 AMP, 125 VAC, EXP plug w/quick wiring (5-20P) USA / Canada
<b>ELAP15232</b>	15 AMP, 250 VAC, EXP plug w/quick wiring (6-15P) International
<b>ELAP20232</b>	20 AMP, 250 VAC, EXP plug w/quick wiring (6-20P) International

No additional charge for installation prior to shipment.



**ELAP15231 ELAP20231**  
**ELAP15232 ELAP20232**  
**Explosion-Proof Plugs**



## Custom Centrifugal Blowers



1.5 HP TEFC motor  
6" Intake/Outlet



1.5 HP Explosion-Proof motor  
8" Inlet/Outlet

### Small Portable Pressure Blowers

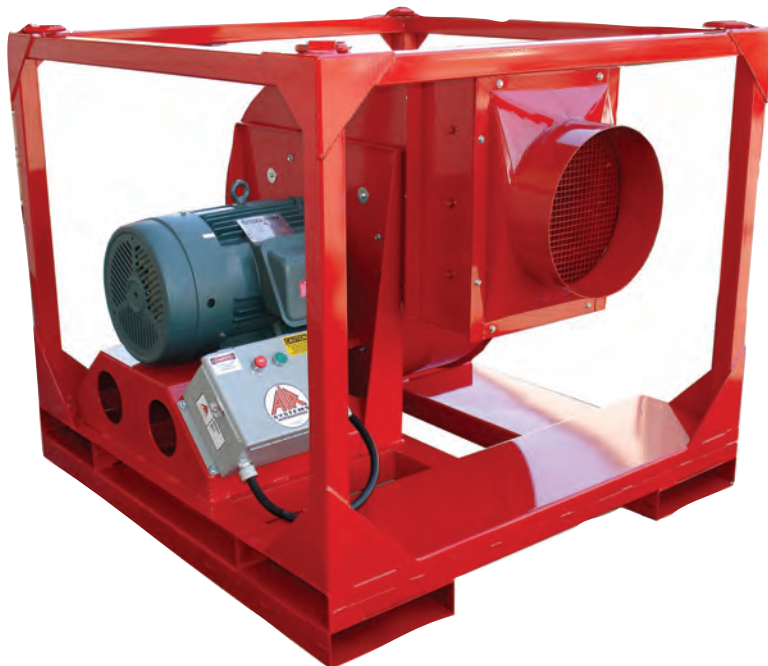
Custom small centrifugal blowers are designed for delivering high air pressure up to 6" WG and air flow up to 750 cfm. Portable blowers have dual handles for easy transport, and deliver positive or negative air flow while removing dust and/or gases over long distances. All blowers have aluminum non-sparking blower wheels.

#### Options for Small Portable Custom Blowers:

- Intake and output sizes, 4, 6, or 8 inch
- TEFC or explosion-proof motor
- Specify voltage and amps required - select from 115, 230, 440 VAC
- Specify air flow (CFM) and pressure (WG) required
- Specify powder coated color

#### Ordering a Custom Blower:

Contact Customer Service to discuss specifications and requirements. Engineering will provide a drawing, specification sheet, and quote for your approval.



15 HP motor, 14" Intake/Outlet,  
8,500 cfm free flow air

### Large Custom Blowers

Large centrifugal blowers are designed to deliver high air pressure up to 16" WG and air flow up to 12,000 CFM. Large blowers deliver ventilation over long distances and connect with air duct manifolds to move large volumes of air. A high pressure blower can deliver positive or negative air flow while removing dust and/or gases over long distances.

#### Options for Large Custom Blowers:

- Intake and output sizes, 10, 12, 14, and 16 inch
- Variable output air flow with adjustable damper
- TEFC or Explosion-proof motor
- Specify voltage and amps required -  
Select from 230, 440/480 VAC
- Specify air flow (CFM) and pressure (WG) required
- Fork lift and sling hooks
- Optional lift certification available
- Several colors available

**Contact Customer Service to get started!**

## 8" Steel Axial Fans & Kits



8" Electric Axial Fan  
SVF-8AC



8" Steel Axial  
Ventilation Kit  
SVF-8ACUP

8" Steel Axial Canister Fan  
SVF-15ACAN

Model	Model No.	Free Air	25' 1-90° Bend	25' 2-90° Bends
AC Blower (60 Hz)	SVF-8AC	1,275 CFM	797 CFM	677 CFM
AC Blower (50 Hz)	SVF-8AC50	1,063 CFM	664 CFM	564 CFM
DC Blower (12 VDC)	SVF-8DC	1,275 CFM	797 CFM	677 CFM



Our steel axial fan is a rugged, low cost fan with high volume output and medium static pressure. Designed for non-hazardous locations and CSA C/US certified for outdoor use.

The fans are also available mounted to a rugged polyethylene duct canister to make an ideal ventilator for the customer who needs an all-in-one canister fan.

### 8" Steel Axial Fans & Kits

Item No.	Description
<b>8" Steel Axial Fans</b>	
SVF-8AC	AC axial fan - 1/3 HP, 115 VAC, 60 Hz CSA C/US Certified. CE Registered. 27 lbs
SVF-8AC50	AC axial fan - 1/3 HP, 230 VAC, 50 Hz CE Registered. 27 lbs
SVF-8DC	DC axial fan - 12 VDC, 1/4 HP, 20 amps, supplied with battery clamps. CE Registered. 25 lbs
<b>8" Steel Axial Canister Fans</b>	
SVF-6ACAN	SVF-8AC AC fan, canister with 6 foot duct installed
SVF-15ACAN	SVF-8AC AC fan, canister fan with 15 foot duct installed
SVF-25ACAN	SVF-8AC AC fan, canister with 25 foot duct installed
SVF-6DCAN	SVF-8DC DC fan, canister with 6 foot duct installed
SVF-15DCAN	SVF-8DC DC fan, canister with 15 foot duct installed
SVF-25DCAN	SVF-8DC DC fan, canister with 25 foot duct installed
<b>Steel Axial Saddle Vent® Ventilation Kits</b>	
SVF-8ACUP	SVF-8AC fan, Industrial Saddle Vent®, 90° elbow, 15 foot duct, 6 foot duct, duct canister & universal mount
SVF-8DCUP	SVF-8DC fan, Industrial Saddle Vent®, 90° elbow, 6 and 15 foot duct, duct canister, and universal mount



## 10" In-Line Steel Axial Fans



SVF-10E  
CSA C/US CE

10" to 8" Duct Adapters  
Supplied for Intake and Exhaust



SVF-10EXP  
CSA C/US CE

Dual Grounding Lugs to  
Remove Static Electricity

Standard Models	Model No.	Free Air	25' 1-90° Bend	25' 2-90° Bends
10" Blower (60 Hz)	SVF-10E	868 CFM	648 CFM	589 CFM
10" Blower (50 Hz)	SVF-10AC50	723 CFM	540 CFM	491 CFM
Explosion-Proof Models	Model No.	Free Air	25' 1-90° Bend	25' 2-90° Bends
10" EXP Blower (60 Hz)	SVF-10EXP	994 CFM	738 CFM	678 CFM
10" EXP Blower (50 Hz)	SVF-10X220	828 CFM	615 CFM	565 CFM

The 10" in-line axial fan is designed as a stand alone fan or can be attached in series to run long lengths of ventilation duct. Intake and exhaust flanges allow for either 8" or 10" duct to be attached to either end of the blower to achieve positive or negative ventilation. Made of lightweight steel, the blower is available in standard or explosion-proof electric versions.

### Fans Approved for Hazardous Locations:

SVF-10EXP - CSA C/US certified for Classes I and II, Groups C, D, E, F, and G.

SVF-10X220 - ATEX and IECEx certified for II 2 Gc Ex d IIB T6 Gb

### 10" In-Line Steel Axial Fans

Item No.	Description
	<b>Non-Hazardous Locations</b>
SVF-10E	10" Electric in-line fan, continuous duty, 1/2 HP, 115 VAC, 60 Hz. CSA C/US Certified. CE Registered. 30 lbs
SVF-10AC50	10" Electric in-line fan, continuous duty, 1/2 HP, 230 VAC, 50 Hz. CE Registered. 30 lbs
	<b>Hazardous Locations</b>
SVF-10EXP	10" Explosion-proof electric in-line fan, continuous duty, 1/2 HP, 115 VAC, 1-phase, 60 Hz, 25 foot cable, <b>no plug</b> . CSA C/US Certified, CE Registered. 38 lbs
SVF-10X220	10" Explosion-proof electric in-line fan, continuous duty, 1/2 HP, 230 VAC, 50/60 Hz. 7.6 meter cord, <b>no plug</b> . ATEX and IECEx certified. 38 lbs



For Use In  
Hazardous  
Locations

Explosion-Proof plug sold separately. No additional charge for installation prior to shipment.

### Explosion-Proof Plugs

Item No.	Description
ELAP15231	15 AMP, 125 VAC, EXP plug w/quick wiring (5-15P) USA / Canada
ELAP20231	20 AMP, 125 VAC, EXP plug w/quick wiring (5-20P) USA / Canada
ELAP15232	15 AMP, 250 VAC, EXP plug w/quick wiring (6-15P) International
ELAP20232	20 AMP, 250 VAC, EXP plug w/quick wiring (6-20P) International

No additional charge for installation prior to shipment.

### Explosion-Proof Plugs



ELAP15231



ELAP20231



ELAP15232



ELAP20232



## Saddle Vent® Ventilation Kits with 10" In-Line Steel Axial Fans



### 10" In-Line Electric Ventilation Kits

Item No.	Description
	<b>Non-Hazardous Locations</b>
SVF-10ECUP	SVF-10E fan, Industrial Saddle Vent®, 6 & 15 foot 8" duct, duct canister, 90° elbow, & universal mount
	<b>Hazardous Locations</b>
SVF10EXCUP	SVF-10EXP fan, Conductive Saddle Vent®, 6 & 15 foot 8" conductive duct, duct canister, conductive 90° elbow, and universal mount - <b>no plug</b>

SVF10EXCUP plug sold separately. See page 67 for Explosion-Proof Plugs.

The Conductive Saddle Vent® is covered by US and foreign patents.

Saddle Vent® is a Registered Trademark of Air Systems International, Inc.



## 8" Axial Fans and Kits For Non-Hazardous Locations



8" Axial Fan  
CVF-8AC



8" Axial Canister Fan  
CVF-15ACAN

Rugged, light weight, economical axial fans provide fresh air for confined space ventilation in ANY conditions!  
Certified for outdoor use.

Model	Model No.	Free Air	15' 1-90° Bend	15' 2-90° Bends
8" AC Fan (60 Hz)	CVF-8AC	974 CFM	786 CFM	661 CFM
8" AC Fan (50 Hz)	CVF-8AC50	830 CFM	705 CFM	629 CFM
8" DC Fan (12 VDC)	CVF-8DC	974 CFM	786 CFM	661 CFM

### 8" Axial Fans

Item No.	Description
CVF-8AC	8" AC Axial Fan - 1/3 HP, 115 VAC, 60 Hz. CSA C/US Certified. CE Registered. 17 lbs
CVF-8AC50	8" AC Axial Fan - 1/3 HP, 230 VAC, 50 Hz. CE Registered. 18 lbs
CVF-8DC	8" DC Axial Fan - 1/4 HP, 12 VDC, 19 amps, with battery clips. CE Registered. 18 lbs

### 8" Axial Canister Fans

Item No.	Description
CVF-15ACAN	8" CVF-8AC Axial Fan, 15 foot duct canister
CVF-25ACAN	8" CVF-8AC Axial Fan, 25 foot duct canister
CVF-15DCAN	8" CVF-8DC Axial Fan, 15 foot duct canister, & battery clips
CVF-25DCAN	8" CVF-8DC Axial Fan, 25 foot duct canister, & battery clips
<b>Duct Canister Only - Fits 8" CVF Fans</b>	
CVF-CAN15	8" Duct canister with 15 foot duct
CVF-CAN25	8" Duct canister with 25 foot duct



### Emergency Response Ventilation Kits

Item No.	Description
ERVK-15DC	CVF-15DCAN Canister Fan and AL2-4K-35 Light
ERVK-25DC	CVF-25DCAN Canister Fan and AL2-4K-35 Light

Air-Light® Area Light details on page 82.

### 8" Saddle Vent® Ventilation Kits

Item No.	Description
CVF8A15KIT	8" CVF-8AC axial fan, 6 and 15 foot duct with canister, Saddle Vent®, 90° elbow, and universal mount
CVF8A25KIT	8" CVF-8AC axial fan, 6 and 25 foot duct with canister, Saddle Vent®, 90° elbow, and universal mount
CVF8D15KIT	8" CVF-8DC axial fan, 6 and 15 foot duct with canister, Saddle Vent®, 90° elbow, and universal mount
CVF8D25KIT	8" CVF-8DC axial fan, 6 and 25 foot duct with canister, Saddle Vent®, 90° elbow, and universal mount



Axial Fan  
Saddle Vent®  
Ventilation Kit  
CVF8A15KIT

## 12" Axial Fans and Kits For Non-Hazardous Locations



12" Axial Fan  
CVF-12AC



12" Axial Canister Fan  
CVF12CAN15

**Certified for Outdoor Use**

Model	Model No.	Free Air	15' 1-90° Bend	15' 2-90° Bends
12" AC Fan (60 Hz)	CVF-12AC	2,348 CFM	1,868 CFM	1,690 CFM
12" AC Fan (50 Hz)	CVF-12AC50	1,956 CFM	1,557 CFM	1,408 CFM

### Applications

- Confined Spaces
- Construction / Maintenance
- Utility Companies
- Shipbuilding / Repair
- Manhole Entry
- Underground Vaults
- Electrical Transformer Repair
- Open Trenching

12" axial fans are made from rugged, lightweight polyethylene, providing fresh air for confined space ventilation.

### 12" Axial Fans

Item No.	Description
CVF-12AC	12" AC Axial Fan - 1 HP, 115 VAC, 50/60 Hz, GFCI plug. CSA C/US Certified. CE Registered. 28 lbs
CVF-12AC50	12" AC Axial Fan - 1 HP, 230 VAC, 50 Hz, user specifies plug. CE Registered. 28 lbs

### 12" Axial Canister Fans

Item No.	Description
CVF12CAN15	12" CVF-12AC Axial Fan, 15 foot duct canister
CVF12CAN25	12" CVF-12AC Axial Fan, 25 foot duct canister
	<b>Duct Canister Only - Fits 12" CVF Fans</b>
CVFCAN1215	12" Duct canister, 15 foot duct
CVFCAN1225	12" Duct canister, 25 foot duct

### The Saddle Vent® Non-Hazardous Locations

Item No.	Description
SV-18912-O	12" Industrial Saddle Vent® - orange
SV-UM	Universal Saddle Vent® mounting bracket - steel

12" Saddle Vent®  
SV-18912-O



Saddle Vent® Mount  
SV-UM



## 8" Axial Explosion-Proof Axial Fans and Kits For Hazardous Locations



8" Axial Fan  
CVF-8EXP



8" Explosion-Proof  
Axial Canister Fan  
CVF15CANEX

Model	Model No.	Free Air	15' 1-90° Bend	15' 2-90° Bends
8" EXP Fan (60 Hz)	CVF-8EXP	987 CFM	730 CFM	648 CFM
8" EXP Fan (50 Hz)	CVF-8X220	823 CFM	655 CFM	552 CFM

### Approved for Hazardous Location Usage:

**CVF-8EXP** - Class I, Div I, Groups C & D; Class II, Div I, Groups E, F, & G

**CVF-8X220** - ATEX and IECEx certified for II 2 G c Ex d IIB T6 Gb

### 8" Explosion-Proof Axial Fan

Item No.	Description
CVF-8EXP	115 VAC, 1/3 HP, 60 Hz, 1 phase, 25 foot power cord, sealed on/off switch, CSA C/US Certified. CE Registered. 23 lbs <b>No plug</b> .
CVF-8X220	230 VAC, 1/3 HP, 50 Hz, 7.6 meter power cord, ATEX and IECEx Certified. 23 lbs / 10.4 kg <b>No plug</b> .

Explosion-proof plug sold separately (page 67). No additional charge for installation prior to shipment.

### 8" Explosion-Proof Axial Canister Fans

Item No.	Description
CVF6CANEX	CVF-8EXP fan, 6 foot conductive duct & conductive canister, <b>no plug</b>
CVF15CANEX	CVF-8EXP fan, 15 foot conductive duct & conductive canister, <b>no plug</b>
CVF25CANEX	CVF-8EXP fan, 25 foot conductive duct & conductive canister, <b>no plug</b>
CVF-15X220	CVF-8X220 fan, 15 foot conductive duct & conductive canister, <b>no plug</b>
CVF-25X220	CVF-8X220 fan, 25 foot conductive duct & conductive canister, <b>no plug</b>
<b>Conductive Duct Canister Only - Fits 8" CVF Fans</b>	
CVF-CND6	8" Conductive duct canister with 6 foot conductive duct - <b>No Fan</b>
CVF-CND15	8" Conductive duct canister with 15 foot conductive duct - <b>No Fan</b>
CVF-CND25	8" Conductive duct canister with 25 foot conductive duct - <b>No Fan</b>

Explosion-proof plug sold separately (page 67). No additional charge for installation prior to shipment.

### 8" Conductive Saddle Vent® Ventilation Kits

Item No.	Description
CVFEX15KIT	CVF-8EXP fan, Conductive Saddle Vent®, 6 and 15 foot conductive duct, conductive canister, conductive 90° elbow, and universal mount
CVFEX25KIT	CVF-8EXP fan, Conductive Saddle Vent®, 6 and 25 foot conductive duct, conductive canister, conductive 90° elbow, and universal mount
CVFX15K220	CVF-8X220 fan, Conductive Saddle Vent®, 6 and 15 foot conductive duct, conductive canister, conductive 90° elbow, and universal mount
CVFX25K220	CVF-8X220 fan, Conductive Saddle Vent®, 6 and 25 foot conductive duct, conductive canister, conductive 90° elbow, and universal mount

Explosion-proof plug sold separately (page 67). No additional charge for installation prior to shipment.

### Applications

- Hazardous Locations
- Utility Companies
- Petrochemical Tanks
- Construction & Maintenance
- Electrical Transformers
- Tank Cleaning



Conductive Saddle Vent®  
Ventilation Kits  
CVFEX15KIT

# 12" Explosion-Proof Axial Fans and Kits For Hazardous Locations



12" Explosion-Proof Axial Fan  
CVF-12EXP



For Use In Hazardous Locations



12" Explosion-Proof Axial Canister Fan  
CVF12EXP15

Model	Model No.	Free Air	15' 1-90° Bend	15' 2-90° Bends
12" EXP Fan (60 Hz)	CVF-12EXP	2,483 CFM	1,738 CFM	1,598 CFM
12" EXP Fan (50 Hz)	CVF-12EX22	2,069 CFM	1,448 CFM	1,332 CFM

## Approved for Hazardous Location Usage:

CVF-12EXP - Class I, Div I, Groups C & D; Class II, Div I, Groups E, F, & G

CVF-12EX22 - ATEX certified for II 2 G Ex db h IIB T6 Gb

## 12" Explosion-Proof Axial Fan

Item No.	Description
CVF-12EXP	115 VAC, 1.5 HP, 60 Hz, 1 phase, 25 foot power cord, sealed on/off switch, <b>no plug</b> . CSA C/US Certified. CE Registered. 52 lbs
CVF-12EX22	230 VAC, 1.5 HP, 50 Hz, ATEX certified, 7.6 meter power cord, <b>no plug</b> . 52 lbs / 23.6 kg

Explosion-proof Plug sold separately (page 67). No additional charge for installation prior to shipment.

**Don't forget to order an explosion-proof plug!  
See page 67 for ordering information**

## 12" Explosion-Proof Axial Canister Fans

Item No.	Description
CVF12EXP15	CVF-12EXP fan, 15 foot conductive duct, conductive canister, <b>no plug</b>
CVF12EXP25	CVF-12EXP fan, 25 foot conductive duct, conductive canister, <b>no plug</b>
CVF12X1522	CVF-12EX22 fan, 15 foot conductive duct, conductive canister, <b>no plug</b>
CVF12X2522	CVF-12EX22 fan, 25 foot conductive duct, conductive canister, <b>no plug</b>
<b>Conductive Duct Canister Only - Fits 12" CVF Fans</b>	
CVCAN1215C	Conductive duct canister with 15 foot conductive duct
CVCAN1225C	Conductive duct canister with 25 foot conductive duct

Explosion-proof Plug sold separately (page 67). No additional charge for installation prior to shipment.

## The Saddle Vent® - Hazardous Locations

Item No.	Description
SV-18912-B	12" Conductive Saddle Vent® - black
SV-UM	Universal Saddle Vent® mounting bracket - steel



Saddle Vent® Mount  
SV-UM

## Applications

- Hazardous Locations
- Manhole Entry
- Petrochemical Tanks
- Shipbuilding / Repair
- Tank Cleaning



12" Conductive Saddle Vent®  
SV-18912-B



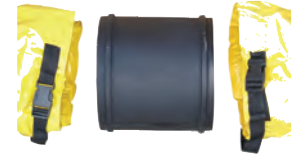
## Ventilation Ducting & Accessories



Standard Duct



Conductive Duct with Ground Wires



8" & 12" Duct to Duct Connectors



8" & 12" Conductive Duct to Duct Connectors

### Standard and Conductive Ducting

Item No.	Description
<b>Non-Hazardous Locations</b>	
SVH-3	8" Diameter duct, 3 foot - yellow
SVH-6	8" Diameter duct, 6 foot - yellow
SVH-15	8" Diameter duct, 15 foot - yellow
SVH-25	8" Diameter duct, 25 foot - yellow
SVH-1215	12" Diameter duct, 15 foot - yellow
SVH-1225	12" Diameter duct, 25 foot - yellow
<b>Hazardous Locations (with ground wires)</b>	
SVH-CND86	8" Diameter conductive duct, 6 foot - black
SVH-CND815	8" Diameter conductive duct, 15 foot - black
SVH-CND825	8" Diameter conductive duct, 25 foot - black
SVHCND1215	12" Diameter conductive duct, 15 foot - black
SVHCND1225	12" Diameter conductive duct, 25 foot - black

### Key Details:

- Standard duct yellow vinyl polyester
- Conductive duct black vinyl polyester
- 8" & 12" diameter with external wear strips – custom sizes up to 36" diameter available
- Reinforced internal steel wire hoop – 5" pitch
- 6" long attachment cuff, 8 3/8" or 12 3/8" diameter, with adjustable belt straps on both duct ends
- 12" steel ground wire on both duct ends of conductive duct
- Maximum temperature rating 180°F

### Duct Storage Carrier

Item No.	Description
SVH-DC25	Holds 50 foot of 8" diameter duct, snap-lock lid, large carry handle, polyethylene construction
SVH-DC1250	Holds 50 foot of 12" diameter duct, snap-lock lid, large carry handle, polyethylene construction



8" Duct Storage Carrier SVH-DC25

12" Duct Storage Carrier SVH-DC1250

### Duct to Duct Connector

Item No.	Description
<b>Non-Hazardous Locations</b>	
SVH-88C	8" duct to duct connector - Polyethylene
SVH-1212C	12" duct to duct connector - Galvanized Steel
<b>Hazardous Locations</b>	
SVH-88CND	8" conductive duct to duct connector with ground lugs - galvanized steel
SVH1212CND	12" conductive duct to duct connector with ground lugs - galvanized steel

### 4 Mil Lay Flat Disposable Ducting

Item No.	Description
SVH-LF8	8" Standard poly lay flat ducting, 750 foot per roll - opaque
SVH-LF8C	8" Anti-static poly lay flat ducting, 750 foot per roll - black
SVH-LF12	12" Standard poly lay flat ducting, 750 foot per roll - opaque
SVH-LF16	16" Standard poly lay flat ducting, 825 foot per roll - opaque



8" Lay Flat Disposable Ducting SVH-LF8



## Custom Duct Transitions

Enlarging and Reducing Adapters are Available to Accommodate Any Transition Size - Contact Customer Service for Ordering Information.

## Electric Ventilation Heaters



Ventilation Heater  
SVF-15KW-8

32" L X 27" H X 37.5" W  
95 lbs.

All electric heaters are available with duct size flanges - specify size when ordering



### Key Details:

- Heaters operate with blower or fan only
- 8" inlet and exhaust flanges
- Aluminum frame with control box
- Automatic start with blower running
- Built-in safety pressure switch
- Automatic thermal shutdown at 170°F
- 144°F output at exhaust, 112°F with 15 foot duct



Ventilation Heater  
SVF-7KW-8

27" L X 16" H X 15.5" W  
40 lbs.

### Ventilation Heater - 8" Duct Flange

Item No.	Description
SVF-7KW-8	8" Electric ventilation heater, 7kw, 230/1 VAC, 28 amps, 23,900 BTU - 30 amp plug
SVF-10KW-8	8" Electric ventilation heater, 10kw, 440/3 VAC, 15 amps, 34,145 BTU - user wired
SVF-15KW-8	8" Electric ventilation heater, 15kw, 440/3 VAC, 26 amps, 51,216 BTU - user wired

## Vent Flow™ Alarm

Meets Confined Space Ventilation Flow Loss Alarm Requirements



Vent Flow™  
Alarm in Use  
SVF-8ALM



SVF-12ALM

### Key Details:

- Models available for 8" or 12" blower duct (other sizes available)
- Use 6 foot duct to connect from blower to Vent Flow™ and 15 or 25 foot duct to confined space
- No AC power required - operates on two 9 VDC batteries
- Audible alarm (92 dBA) and visual red light activate with approximately 50% flow loss in the duct
- Alarms deactivate when normal flow is re-established
- Galvanized tubular steel housing
- Meets Canadian confined space low flow alarm requirements
- Overall length: 13"

### Vent Flow™ Alarm

Item No.	Description
SVF-8ALM	Vent-Flow™ Alarm, 9 VDC, galvanized, 8" inlet/outlet, 7 lbs
SVF-12ALM	Vent-Flow™ Alarm, 9 VDC, galvanized, 12" inlet/outlet, 12 lbs

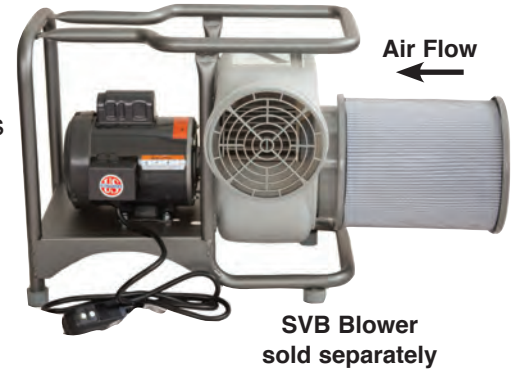
For Use In Non-Hazardous Locations



## Ventilation Filter Accessories

### Inlet Filter Assembly

The inlet filter is designed for Air Systems' SVB series of portable industrial blowers. The unit filters inlet ambient air so workers in a confined space are not exposed to ambient dust. The system controls dust and particulates from entering a confined space where industrial coatings are being applied. The filter also reduces the potential for dust ignition in a confined space when used with an explosion-proof or intrinsically safe blower. Filters are available with a 5 micron or 99.97% HEPA rating.



SVB Blower  
sold separately

Filter Holder



Standard Filter



HEPA Filter



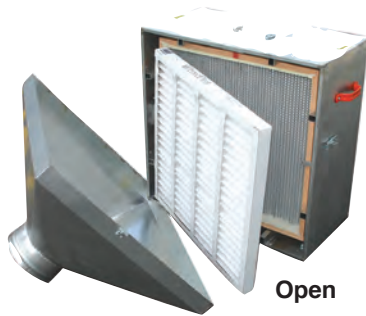
### 8" Inlet Filters

Item No.	Description
SVB-IFH9	Steel inlet filter holder. Order filter separately.
SVB-IF9ST	Inlet filter, standard, 70% MERV 7 efficient at 3 micron, <1% flow loss with 25 foot duct
SVB-IF9STC	Inlet filter, carbon impregnated, MERV 7 efficient at 3 micron, <1% flow loss with 25 foot duct
SVB-IF9HE	Inlet filter, HEPA 99.97% efficient at 0.3 micron, 40% flow loss with 25 foot duct

See pages 61 - 64 for SVB blowers.

## In-Line HEPA Filter Holder

- Attaches before or after blower for positive or negative filtration
- 8" inlet and exhaust flanges (other sizes available)
- Galvanized steel frame
- Optional stainless steel or aluminum frame available
- Holds HEPA filter plus a pleated prefilter for dust or odors (ordered separately)



Open



Closed

In-Line HEPA Filter Holder  
FH24-8-14

### HEPA Filter Holder and Accessories

Item No.	Description
FH24-8-14	In-line steel HEPA filter holder, uses 8" duct, holds 24" x 24" x 11½" HEPA and 2" pre-filter
PFE-2412HF	HEPA Filter, 24" x 24" x 11½", each
FLTR004C	2" pleated dust prefilter, 24" x 24" x 2", case of 12
ASI-242C	2" pleated carbon odor removal pre-filter, 24" x 24" x 2", case of 12

Other duct size holders available

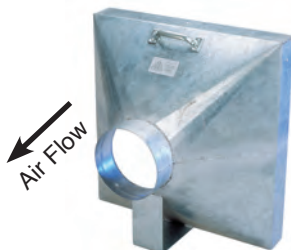
## In-Line Pleated Filter Holder

- Attach to inlet flange of 8" fan or blower
- Reduces dust in confined space
- Galvanized steel frame
- Holds a 24" x 24" x 2" filter

Custom sizes  
available



In Use



In-Line Filter Holder  
FH24-8

### Filter Holder and Accessories

Item No.	Description
FH24-8	In-line steel filter holder, uses 8" duct, holds 2" pre-filter
FLTR004C	2" pleated dust prefilter, 24" x 24" x 2", case of 12
ASI-242C	2" pleated carbon odor removal prefilter, 24" x 24" x 2", case of 12

# Venturi Blowers

Often Called “Air Horns” or “Eductors”



**Ideal For Exhausting  
Hazardous Vapors From  
Below Ground Locations**

Venturi Blower Specifications and Performance							
	50 PSIG		70 PSIG		90 PSIG		
Model	Total Air Flow		Total Air Flow		Total Air Flow		
ASI-1000	935 CFM		1274 CFM		1422 CFM		
ASI-1200	1211 CFM		1429 CFM		1580 CFM		
ASI-2900	2770 CFM		3340 CFM		3752 CFM		
ASI-4100	3785 CFM		4562 CFM		5041 CFM		
Model	Air Consumed		Air Consumed		Air Consumed		
ASI-1000	38 CFM		53 CFM		64 CFM		
ASI-1200	38 CFM		53 CFM		64 CFM		
ASI-2900	76 CFM		99 CFM		127 CFM		
ASI-4100	117 CFM		152 CFM		197 CFM		
Model	Overall Length	Diameter of Base	Diameter of Horn	NPT	Bolt Circle	Base Slot	Weight
ASI-1000	16.31"	7.38"	6.19"	1/2"	6.75"	0.31"	5.3 lbs
ASI-1200	32.12"	7.38"	7.37"	1/2"	6.75"	0.31"	8.1 lbs
ASI-2900	44.00"	11.16"	13.00"	1"	10.28"	0.43"	22.1 lbs
ASI-4100	46.50"	14.31"	14.37"	1"	13.18"	0.56"	32.3 lbs

## Key Details:

- Used to ventilate hazardous vapors / fumes safely
- Operates on compressed air or steam
- Static grounding lug supplied
- Lightweight cast aluminum base
- Galvanized steel horn (replaceable)
- Models available up to 8000 cfm capacity
- Use in high heat locations
- Operating pressures up to 140 psi
- API standard base sizes

## Venturi Blowers (Air Horns)

Item No.	Description
ASI-1000	Pneumatic Air Blower, 16.31" length
ASI-1200	Pneumatic Air Blower, 32.12" length
ASI-2900	Pneumatic Air Blower, 44.00" length
ASI-4100	Pneumatic Air Blower, 46.50" length

Note: Order air inlet fitting(s) separately.



## Pneumatic Jet Fans Designed for Hazardous Location Tank Ventilation

### Circular Pneumatic Jet Fans

Item No.	Description
ASI-JF20	Cast Aluminum Pneumatic Jet Fan - 20" diameter
ASI-JF24	Cast Aluminum Pneumatic Jet Fan - 24" diameter

Grounding wire and Chicago fitting included.

Model No.	Fits API Diameter Inch	Max Free Air CFM	Inlet Pressure PSI	Inlet Flow Required CFM	Weight Lbs.
ASI-JF20	20	10,400	40-110	60-290	95
ASI-JF24	24	16,130	40-110	76-338	132



Pneumatic Jet Fan  
ASI-JF24



Pneumatic Jet Fan  
ASI-JF20



For Use In  
Hazardous  
Locations



### Portable Pneumatic Jet Fans

Item No.	Description
ASI-JF12	Cast Aluminum Pneumatic Jet Fan - 12" diameter
ASI-JF16	Cast Aluminum Pneumatic Jet Fan - 16" diameter

Grounding wire and Chicago fitting included.

Model No.	Size Outlet	Max Free Air CFM	Inlet Pressure PSI	Inlet Flow Required CFM	Weight Lbs.
ASI-JF12	12	1680-2860	40-100	55-130	41
ASI-JF16	16	2540-4200	40-110	54-128	63



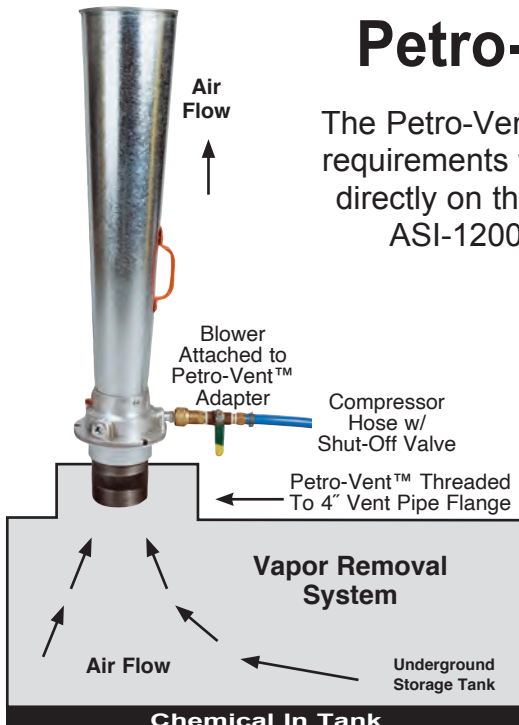
Pneumatic Jet Fan  
ASI-JF16



Pneumatic Jet Fan  
ASI-JF12

## Petro-Vent™ Tank Ventilator

The Petro-Vent™ blower was designed to meet hazardous location ventilation requirements for underground storage tanks. A special flange adapter threads directly on the 4-inch vent pipe found on most storage tanks. The ASI-1000, ASI-1200 and ASI-2900 bolt directly on a compatible flange adapter.



For Use In  
Hazardous  
Locations



Petro-Vent™  
Adapter  
ASI-12ADPT



### Petro-Vent™ Adapters

Item No.	Description
ASI-12ADPT	Petro-Vent™ Adapter, includes flange adapter and 4" threaded nipple; fits ASI-1000 and ASI-1200 style blowers
ASI-29ADPT	Petro-Vent™ Adapter for ASI-2900 blower

# Confined Space Entry Carts

Easily Customized for Any Work Site



**Confined Space Cart**  
Cylinders sold separately  
**CSC-3072P**



Confined Space Cart holds one or two large cylinders and optional breathing air assembly.



The Confined Space Cart was designed to carry everything needed for confined space entry. Customize for your job requirements!

### Key Details:

- Three galvanized steel cabinets with shelves:
  - One cabinet opens on both sides (28" deep)
  - Two cabinets open on one side (14" deep)
- Cart rated to carry 1,200 lbs
- Steel cart base with steerable front end
- Nylon bottle straps and steel safety chains for cylinder security
- Rubber mat and straps on top to hold tripod
- Combination "T" handle with Pintle Hitch



**Breathing Air Assembly**  
**CBA2-346NB**

### Confined Space Entry Carts & Accessories

Item No.	Description
	<b>Confined Space Entry Carts</b>
CSC-3072	Confined space cart with 10" semi-pneumatic tires. <b>Cylinders sold separately.</b>
CSC-3072P	Confined space cart with 10" pneumatic tires. <b>Cylinders sold separately.</b>
	<b>Breathing Air Assemblies</b>
CBA2-346NB	2 cylinder breathing air assembly - 2400 psi. <b>Cylinders sold separately.</b>
CBA2-347NB	2 cylinder breathing air assembly - 4500 psi. <b>Cylinders sold separately.</b>
	<b>Air Cylinders</b>
AC-300	300 cf CGA-346, 2400 psi, steel, DOT/TC approved
AC-444	444 cf CGA-347, 4500 psi, steel, DOT/TC/ISO/UN approved
AC-472	472 cf CGA-347, 5000 psi, steel, DOT/TC/ISO/UN approved

**Cylinders sold separately**



### Cart:

- Dimensions 30" W x 72" L x 48" H
- Weight: 515 lbs.

# Confined Space Ventilation Safety Tips

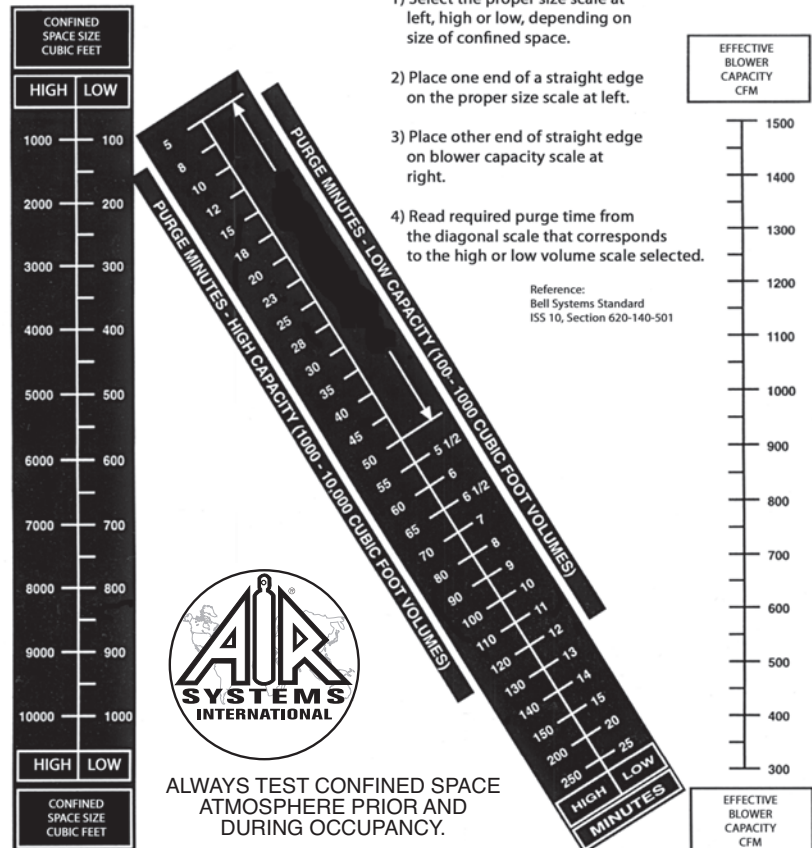
- 1) Proper ventilation procedures should be followed in accordance with all Federal, State, and Local laws. For work in hazardous locations, follow ANSI/API 2015 and 2016 procedures.
- 2) Always test the confined space for hazardous gases and sufficient oxygen with a calibrated multi-gas monitor prior to ventilating the space. After ventilating for a sufficient amount of time, re-test the confined space before entering the space. Ventilation must remain in operation while the confined space is occupied.
- 3) Use a purge time chart, provided on Air Systems' blowers, and below, to calculate purge times prior to entering a confined space. Each 90° bend in a section of 8" duct will reduce flow approximately 10-15%.
- 4) If toxic or combustible gases or low oxygen levels are encountered, increase ventilation purge times by 50% and retest the air quality.
- 5) When ventilating a manhole or tank, always set the blower back from the opening a minimum of five (5) feet. This should prevent any hazardous gases that may be purged from the confined space from being drawn back into the intake of the blower and forced back into the confined space.
- 6) Never block or restrict entry and egress to or from a confined space opening. Always use Air Systems' Conductive Saddle Vent® System placed in the opening of the manhole or tank to allow continuous ventilation without restricting entry and egress to the opening.
- 7) With gases heavier than air, ventilation duct should be placed at the bottom of the confined space allowing the blower's air to push the gases out the top of the confined space.
- 8) Always use non-sparking tools in and around a hazardous work site.
- 9) When using a Venturi style pneumatic air horn (also called an eductor) on a steel tank, make sure the aluminum base is not scraped along the surface of the steel tank; this may cause a spark where rust is forming. Always make certain that the Venturi blower has been properly bonded to the tank prior to ventilating and assure the tank is properly grounded.
- 10) Always have proper respiratory equipment for the ventilated work space and for emergency rescue.
- 11) The build-up of static electricity is more prevalent during cool dry conditions, typically below 50% relative humidity. Depending on the work environment, anti-static clothing and special static removal devices may be necessary to prevent ignition from static electric discharge.

## Confined Space Entry - Do it Right the First Time! ESTIMATING APPROXIMATE PURGE TIMES

### HOW TO USE CHART

- 1) Select the proper size scale at left, high or low, depending on size of confined space.
- 2) Place one end of a straight edge on the proper size scale at left.
- 3) Place other end of straight edge on blower capacity scale at right.
- 4) Read required purge time from the diagonal scale that corresponds to the high or low volume scale selected.

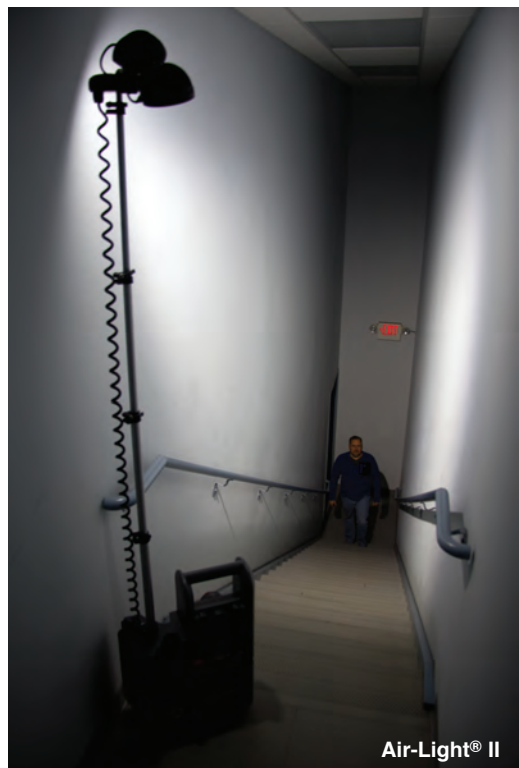
Reference:  
Bell Systems Standard  
ISS 10, Section 620-140-501



**The Conductive Saddle Vent® Ventilation System**

- 1) Proper ventilation procedures should be followed in accordance with all Federal, State and Local Laws.
- 2) Air quality of the confined space should be tested prior to ventilation.
- 3) Ventilate confined space for the minimum times recommended above and retest air quality prior to entry.
- 4) If toxic and/or combustible gases or low oxygen is encountered, increase purge times by 50%
- 5) If 2 blowers are used, add the two capacities and proceed with the "HOW TO USE CHART" directions above.
- 6) Effective blower capacity is measured with one or two 90° bends in 8" diameter, 25 foot blower hose.
- 7) Maintain continuous ventilation while confined space is occupied.

# Air-Light® and Air-Light® II in Action



**Emergency Lighting**



**All Weather Lighting**



**Maintenance Lighting**

# Air-Light®

The Air-Light® is a unique patented portable area light delivering high lumen output and long duration illumination; no set-up required.

## Air-Light® Applications

- Construction & Maintenance
- Utility Work
- Emergency Response Lighting
- Crime Scene Investigation
- Electrical Power Outage
- Hospital Outdoor Triage



Air-Light®  
Patent Information:  
[www.airsystems.com](http://www.airsystems.com)

Fully  
Extends  
to 7.25'  
(87") Tall



## Key Details:

- For use in **ALL WEATHER CONDITIONS AND TERRAIN!**
- IP54 rated for dust protected and water splashing
- Power port socket for charging Air-Light® or powering external accessories such as cell phones, laptops, handheld lights, or any device utilizing 12 VDC power - all charging cables included
- Unit deploys and stows rapidly without the use of tools and folds to fit within the integral case
- Aluminum mast extends from a range of 30" - 87" above ground

## The Air-Light®

Item No.	Description
AL4KBP	Two LED light heads (2000 Lumens each, 4000 Lumens total), AGM Battery (22 amp, 12 VDC), battery charger (3 amp, 115 VAC), charging cables, in roller case
AL9800BP	Two LED light heads (4900 Lumens each, 9800 Lumens total), AGM Battery (22 amp, 12 VDC), battery charger (3 amp, 115 VAC), charging cables, in roller case



**Temporary or Emergency Lighting**

**9800 Lumen LED Area Light**



**Air-Light® 9800  
AL9800BP  
9800 Lumens**



**WARNING:** This product contains a sealed lead acid battery which can expose you to chemicals including Lead and Sulfuric Acid, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Air-Light® II

*Air-Light® II is a variation of our original Air-Light® area light with larger battery and taller mast to elevate LED lights up to 8 foot.*

## Air-Light® II Applications

- Flagger Lighting
- Construction & Maintenance
- Utility Work
- Emergency Response Lighting
- Electrical Power Outage
- Hospital Outdoor Triage



Fully Extends to 8' (96") Tall



Air-Light® II  
Patent Information:  
[www.airsystems.com](http://www.airsystems.com)

## Key Details:

- For use in **ALL WEATHER CONDITIONS & TERRAIN!**
- Air-Light® IP54 rated for dust protected and water splashing
- Sets up in seconds - no tools required
- Up to an 8 foot light extension
- Adjustable independent directional lamp heads
- 12 VDC power port for charging - all charging cables supplied
- Vehicle Jumper Connection Posts

## The Air-Light® II

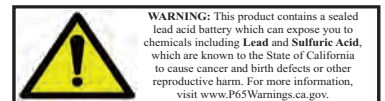
Item No.	Description
AL2-4K-35	Two LED light heads (2000 Lumens each, 4000 Lumens total), AGM Battery (35 amp, 12 VDC), battery charger (3 amp, 115 VAC), charging cables
AL2-95-35	Two LED light heads (4750 Lumens each, 9500 Lumens total), AGM Battery (35 amp, 12 VDC), battery charger (3 amp, 115 VAC), charging cables
AL2-98-35	Two LED light heads (4900 Lumens each, 9800 Lumens total), AGM Battery (35 amp, 12 VDC), battery charger (3 amp, 115 VAC), charging cables



Designed For Use In Any Weather!



Air-Light® II 4K  
AL2-4K-35  
4000 Lumens



**WARNING:** This product contains a sealed lead acid battery which can expose you to chemicals including Lead and Sulfuric Acid, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



## Light Run Time (in Hours)



4000 Lumen  
2 Light Heads



9500 Lumen  
2 Light Heads



9800 Lumen  
2 Light Heads

Air-Light®



22 Amp Battery

1 Head Operating

14+

2 Heads Operating

7+

Run Hours

Configuration  
not offered

1 Head Operating

7+

2 Heads Operating

4+

Air-Light® II



35 Amp Battery

1 Head Operating

25+

2 Heads Operating

14+

Run Hours

9+

2 Heads Operating

5+

1 Head Operating

9+

2 Heads Operating

5+

### Light Head Specifications:

- IP-68 rated dustproof and waterproof
- 60° wide flood beam pattern
- Anodized aluminum frame with a polycarbonate lens
- Operating temperature: -40°F to 176°F (-40°C to 80°C)
- Lifetime warranty on light heads



## Emergency Response Ventilation Kits

DC Powered Ventilation and portable area lighting in one kit!

### Emergency Response Ventilation Kits

Item No.	Description
ERVK-15DC	CVF-15DCAN Canister Fan and AL2-4K-35 Light
ERVK-25DC	CVF-25DCAN Canister Fan and AL2-4K-35 Light

Fan Details on Page 69 and Air-Light® details on page 82.

Emergency Response Ventilation Kit  
ERVK-15DC



# Air-Light® Light Tower

***Air-Light® Tower is a customizable area light designed to light up the workspace with 400,000+ Lumens!***

**With numerous options available, contact Customer Service to customize the Tower for your needs and place an order!**

## Light Head Details:

- Dual LED Light – output total 403,200 lumen
- 201,600 lumens (1500 watt) per lamp head
- Voltage Options: 208, 240, 480 VAC 3-phase  
120 & 230 VAC 1-phase options available
- IP 66 rating
- Light heads rated for 50,000 working hours
- 120 degree beam angle per head
- Independent lamp heads with full 360° range of motion
- Photocell sensor to auto-shutoff unit during daytime
- Each light panel 24" H X 36" W X 3" D



## Other Details:

- Powder coated frame available in several colors
- Forklift guides on all 4 sides
- Designed to operate in up to 45 MPH wind
- Four welded D-rings for hoisting or tying down
- Four collapsible 5 foot steel stabilizer legs with leveling jacks
- Base dimension with legs extended 10'6" square
- Telescoping steel mast – 9' 4" retracted. 30' extended height
- Steel cable winch with electric motor; hand crank or pneumatic winch optional
- NEMA 3R rated electrical control box

**Dimensions:** Base Frame – 4' X 4', 3/8" Steel Frame

**Total weight:** 2,700 lbs



# Welding Fume Extractors

## Fume-Air™ 750

Designed for Heavy Duty, Long Duration Welding

The steel Fume-Air™ 750 HEPA filtered fume extractor provides 750 cfm flow through a 13" hood and is ideal for welding and soldering applications where large flow volume is required. With 270 degree movement and 10 foot arm length, it is easy to position the hood next to the welding work.

The pre-filter pad and certified HEPA filter remove 99.97% at 0.3 micron and meets the OSHA Permissible Exposure Limit (PEL) for hexavalent chromium of 5 µg/m³ and other toxic welding dusts.



Fume-Air™ 750  
PFE-750-8

### Key Details:

- Steel Cabinet
- 115 VAC motor, 12.5 amps, 1.0 HP
- Filter change indicator
- HEPA Filter, 99.97%, UL 129R flame rated, DOP tested, 1000 cfm flow rate
- 24" x 24" x 1" prefilter pad and holder
- 750 cfm flow with 10 foot arm
- 13 inch fume capture hood with adjustable flow damper - optional hood light
- 6 inch diameter, 10 foot adjustable arm with 270 degree movement
- Arm shipped assembled and ready to bolt on to main extraction cabinet
- Lift-up filter door for easy access filter change
- 5" Heavy duty casters

**Dimensions:** 27" W X 40" D X 32.5" H

**Weight:** 370 lbs



Fume-Air™ 750 Filter Set-up



### Fume-Air™ 750

Item No.	Description
PFE-750-8	115/230 VAC, 12.5 AMP, 1 HP, filter change indicator, 10 foot arm assembly, 6" diameter arm, 13" wide fume hood, 5" casters, prefilter pad, 99.97% HEPA filter

### Filters & Accessories

Item No.	Description
PFE-2412HF	HEPA filter (99.97%), 24" x 24" x 11.5" - 1 filter
PFE-2424PF	Prefilter pad, 24" x 24" x 1", package of 10
PFE-2424C	Charcoal impregnated prefilter pad, 24" x 24" x 1", package of 10

# Portable Welding Fume Extractors

## Fume-Air™ 230

Designed for Light Duty, Short Duration Welding



Air Systems' portable HEPA filtered fume extractor, Model PFE-230, provides 230 cfm flow through a 2.5" x 10' hose and a 5" hood with magnetic base stand. Ideal for small welding and soldering applications, such as spot or bench top welding, where large cabinet style fume extractors are not practical. The PFE-230 features a removable slag tray, spark screen, 2 pleated pre-filters, and a final HEPA filter (99.97% at 0.3 micron).

### Key Details:

- Dual vacuum motors with 15 amp overload protector, 115 VAC
- Four stage filtration:
  - Stainless steel spark screen
  - Two pleated intermediate filters
  - Final stage HEPA filter, 99.97% at 0.3 micron
- 70 dbA noise level at 3 feet with built-in noise suppressor
- 230 cfm flow rate - variable speed
- Dual handle assembly
- Removable slag tray

**Dimensions:** 28.5" L x 15" H x 18.5" W

**Weight:** 57 lbs



### Fume-Air™ 230

Item No.	Description
PFE-230	115 VAC, 3/4 HP, 15 AMP, 10 foot hose, HEPA filter, spark screen, and prefilters
PFE230ARM5	PFE-230 with 5 foot adjustable arm, 8" hood
PFE-ARM5	5 foot adjustable arm only, 8" hood, fits PFE-230 extractors

### Filters & Accessories

Item No.	Description
PFE-230-F1	Stainless steel filter - captures spark & steel chips down to 1-2 microns
PFE-230PF1	Prefilter 1st stage, MERV 8 rated, 12" x 12" x 1"
PFE-230PF4	Prefilter 2nd stage, MERV 8 rated, 12" x 12" x 4"
PFE-230-HF	HEPA filter, 12" x 12" x 5.75" captures 99.97% at 0.3 micron particles
PFE-230CRT	PFE-230 roller cart with casters



Fume-Air™ 230 Filter Set-up

## HEPA Filtered Vacuums



AV-4POLY



AV-2



AV-5



AV-15



Our hazardous material vacuums are equipped with a certified HEPA filter, a double layer intermediate micro filter, and a totally enclosed 2-ply disposable paper bag filter. The HEPA filter is made of high strength microfibred glass paper separated by corrugated aluminum sheeting that is entrapped in a steel screen. All HEPA filters are rated with a minimum efficiency of 99.97% at 0.3 microns and tested using the HOT DOP method @ 100 cfm, maximum 1" resistance. All motors have a 2 year warranty. All Certified HEPA filters meet or exceed the following standards: UL-900; ANSI-2-92. **Optional: UL-586 HEPA filter available, contact Customer Service for details.**

### 2 Gallon to 15 Gallon Electric HEPA Vacuum Details:

120 VAC, 60 Hz, 2 stage by-pass motor, 94 - 115 cfm, 84" - 110" water lift, 30 foot power cord with plug. **Also includes:** HEPA filter, intermediate pre-filter, 2-ply disposable paper filter bag, and tool kit. **Tool kit includes:** 5 foot curved steel wand (AV-100), 10 foot vacuum hose with end cuffs (AV-H10), crevice tool (AV-103), inlet swivel connector (AV-101), and hard floor brush (AV-6200). **Additional accessories available on page 88.**

### 2 to 15 Gallon Electric HEPA Filtered Vacuums

Item No.	Description
AV-2	2 gallon recovery tank, 1.3 HP
AV-2BP	2 gallon recovery tank, 1.3 HP with back pack frame
AV-4POLY	4 gallon recovery tank, 1.3 HP, wheel kit
AV-5	5 gallon recovery tank, 1.3 HP, wheel kit
AV-15	15 gallon recovery tank, 2.3 HP, wheel kit, and tool kit

### Vacuum Accessories

Item No.	Description
AV-4POLYTN	Pneumatic beater bar, 1.25", for AV-4POLY
AV-335150	Electric beater bar, 17" for AV-5, AV-15 & AV-55 models
AV-15WP	Wet conversion kit for AV-15 & AV-55 models

### 55 Gallon HEPA Vacuums

Item No.	Description
AV-55	Electric motor 55 gallon drum lid assembly with HEPA filter, 1½" hose connection, hose, and 2.3 HP - <b>Order drum and dolly separately</b>
AV-55P	Pneumatic motor 55 gallon drum lid assembly with HEPA filter, 1½" hose connection, hose - <b>Order drum and dolly separately</b>
AV-55P-CND	Pneumatic motor 55 gallon drum lid assembly with HEPA filter, 1½" conductive 10 foot hose, steel 55 gallon drum, drum dolly, filters, accessory tools and ground wires

### 55 Gallon Vacuum - Drum and Accessories

Item No.	Description
AV-55DH	55 gallon drum - Black
AV-55DD	Drum dolly with wheels and handle for 55 gallon drum
AV-105	Goose neck hose adapter for 55 gallon drum lid, fits 1½" hose



55 Gallon HEPA Vacuum  
AV-55P-CND



55 Gallon  
Dolly Drum  
AV-55DD

## Pneumatic HEPA Filtered Vacuums



5 Gallon  
HEPA  
Vacuum  
AV-5P



15 Gallon  
HEPA  
Vacuum  
AV-15P

15 Gallon  
Conductive  
HEPA  
Vacuum  
AV-15P-CND



### Pneumatic HEPA Filtered Vacuums

Item No.	Description
AV-2P	2 gallon recovery, pneumatic motor
AV-2PBP	Same as AV-2P with back pack frame
AV-5P	5 gallon, pneumatic motor
AV-15P	15 gallon recovery, pneumatic motor

**Includes:** Stainless steel tank, pneumatic motor, 10 foot vacuum hose (AV-H10), crevice tool (AV-103), hard floor brush (AV-6200), curved steel wand (AV-100), and wheel kit

Pneumatic vacuums are ideal for working in wet environments or where long lengths of vacuum hose are required. Air motors require no maintenance and contain no moving parts. A built-in pressure relief valve restricts water lift to 160 inch to prevent tank collapse. On/off flow valve and pressure gauge are included.

### Conductive Pneumatic HEPA Vacuums

Item No.	Description
AV-2P-CND	2 gallon recovery, pneumatic motor, no wheels
AV-5P-CND	5 gallon recovery, pneumatic motor, 4 wheels
AV-15P-CND	15 gallon recovery, pneumatic motor, and cart

**Includes:** Stainless steel tank, pneumatic spark free vacuum motor, 10 foot conductive hose (AV-H10CND), 14" aluminum floor brush (AV-6200), 3" aluminum upholstery brush (AV-3UB), and grounding wire (GRND-15)

#### Key Details:

- **Inlet Pressure:** 80 psi with 1/2" I.D. hose
- **Inlet Flow:** 70 cfm required
- **Vacuum Pressure:** 250" water lift maximum, adjusted to 160" water lift with relief valve
- **Vacuum Flow:** 100 - 170 cfm based on inlet pressure
- **Noise Level:** 75 dBA @ 90 psi inlet pressure

## HEPA Vacuum Accessories

### Replacement Bags and Filters

Item No.	Description
AV-2B	Paper recovery bags, 2 gallon - package of 5
AV-2H	HEPA filter (99.97% UL), 2 gallon - package of 1
AV-4B	Paper recovery bags, 4 gallon - package of 5
AV-5B	Paper recovery bags, 5 gallon - package of 5
AV-5H	HEPA filter (99.97%), 5 gallon, fits AV-5 Series - package of 1
AV-5I	Intermediate filter, fits AV-2 and AV-5 Series - package of 2
AV-5H586	HEPA filter, UL-586 certified, fits AV-5 Series - package of 1
AV-15B	Paper recovery bags, 15 gallon - package of 5
AV-15H	HEPA filter (99.97%), 15 gallon, fits AV-15 & 55 Series - package of 1
AV-15H586	HEPA filter, UL-586 certified, fits AV-15 & 55 Series - package of 1
AV-15I	Intermediate Filter, 15 gallon, fits AV-15 & 55 Series - package of 2

### Accessories



### Accessories - 1 1/2" Hose

Item No.	Description
AV-100	Curved aluminum wand, 54", fits 1 1/2" hose
AV-101	Inlet swivel connector, fits 1 1/2" hose
AV-103	Plastic crevice tool, 11", fits 1 1/2" hose
AV-3RB	3" round brush, 1 1/2" connector
AV-6200	Floor brush, 14", fits 1 1/2" hose
AV-C1	1 1/2" hose cuff
AV-H10	Vacuum hose 1 1/2", 10 foot with cuffs
AV-H10CND	Conductive vacuum hose, 1 1/2", 10 foot, with cuffs
AV-H50	Vacuum hose, 1 1/2", 50 foot with cuffs



**For additional vacuum accessories, please contact Customer Service.**

## Repair Procedure & Repair Training

Air Systems' Repair Department can assist with repair questions over the phone or via email. To assist in the effort, please locate the model number and serial number prior to contacting the Repair Department. Both numbers are required to provide the correct manual or engineering schematic, replacement parts, filters, or answer other questions. Typically, most in-house repairs are completed in 24-48 hours.

**The model and serial numbers are required to issue a Return Authorization (R/A) prior to returning equipment to Air Systems for repair or certification.**

To contact the Repair Department or obtain a Return Authorization:

Phone (800) 866-8100 or (757) 424-3967

and ask for Amber or our Repair Services Department

Email: [repairs@airsystems.com](mailto:repairs@airsystems.com)

To arrange repair training at Air Systems, contact Amber.

## Repair Services Offered

- Manufacturer's Recertification of Equipment
- Monitor Calibration
- Sensor Replacement
- Circuit Board Replacement
- Gauge Testing and Certification
- Certified Load Testing
- Motor Testing and Replacement
- Fan & Blower Rebuild
- Leak Testing and Repair
- Compressor Filter & Oil Change
- Compressor Rebuild & Repair
- Hydrostatic Testing on Air Cylinders



**For Air System's Complete Terms and Conditions, please visit [www.airsystems.com](http://www.airsystems.com)**

## Warranty

(a) Air Systems warrants the Goods to the original Buyer against defects in workmanship or materials under normal use in accordance with Air Systems' written instructions for the following time periods from the date of purchase: (i) electrical parts and systems and electronic components - ninety (90) days; (ii) airline monitors and carbon monoxide sensors - two (2) years; (iii) oxygen sensors and batteries - one (1) year; (iv) area light heads - lifetime warranty (to the original Buyer); and (v) all other Goods - one (1) year. Buyer's exclusive remedy for breach of this warranty will be the repair or replacement, at Air Systems' option, of any part, component or item described in this Section 10 determined by Air Systems to be defective in material or workmanship. Air leaks are not covered under warranty except when due from a defective system component, i.e. an on/off valve or regulator or upon initial delivery due to poor workmanship. Minor air leaks are part of routine maintenance and service and are the responsibility of Buyer and are treated as filter and oil changes, which are also not covered by warranty. With respect to any services set forth in the Confirmation, Air Systems warrants the services will be performed in a good and workmanlike manner.

(b) EXCEPT AS SET FORTH IN SECTION ABOVE, GOODS ARE PROVIDED ON AN "AS IS" BASIS AND AIR SYSTEMS DOES NOT MAKE ANY REPRESENTATION OR WARRANTY, EXPRESS, ORAL, IMPLIED OR STATUTORY, WITH RESPECT TO THE GOODS OR SERVICES, AND AIR SYSTEMS EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY WITH RESPECT TO THE GOODS OR SERVICES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF QUALITY, COMPLETENESS, PERFORMANCE, NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM ANY COURSE OF DEALING OR COURSE OF PERFORMANCE.

## Acceptance of Goods

Buyer shall inspect and accept or reject the Goods immediately upon receipt and shall have 10 business days thereafter to give written notice to Air Systems of any claim that the Goods are of insufficient quantity, do not conform to the agreed upon terms and/or that contain material defects. If Buyer fails to give such notice, the Goods shall be deemed to conform to the Agreement and Buyer shall be deemed to have accepted the Goods. Buyer expressly waives any rights it may have otherwise had after expiration of such 10-day period to revoke acceptance or claim breach of warranty with respect to any material defects that could have been discovered with reasonable diligence upon inspection.

## Custom Products

Custom Products are manufactured to a customer's specific use and application that must be approved by the customer in writing before manufacturing begins. **Custom products, once approved by the customer and a valid purchase order received by Air Systems, are non-cancelable and the finished product cannot be returned to Air Systems for credit.**

## Merchandise Returns

Standard catalog goods may be returned to Air Systems by the original Buyer within ninety (90) days after date of purchase in accordance with these General Terms. **No Goods can be returned without prior factory authorization and return freight must be prepaid by Buyer.** Returned Goods must be unused and in new condition in order to receive credit. Buyer must call Repair Service Dept. at 757-424-3967 or toll-free at 1-800-866-8100 to obtain a return authorization (RA) form and number for use as its return merchandise packing slip.

**A minimum restocking charge of 15% may be assessed for all returned equipment.**

## Use of Names, Pictures and Logos

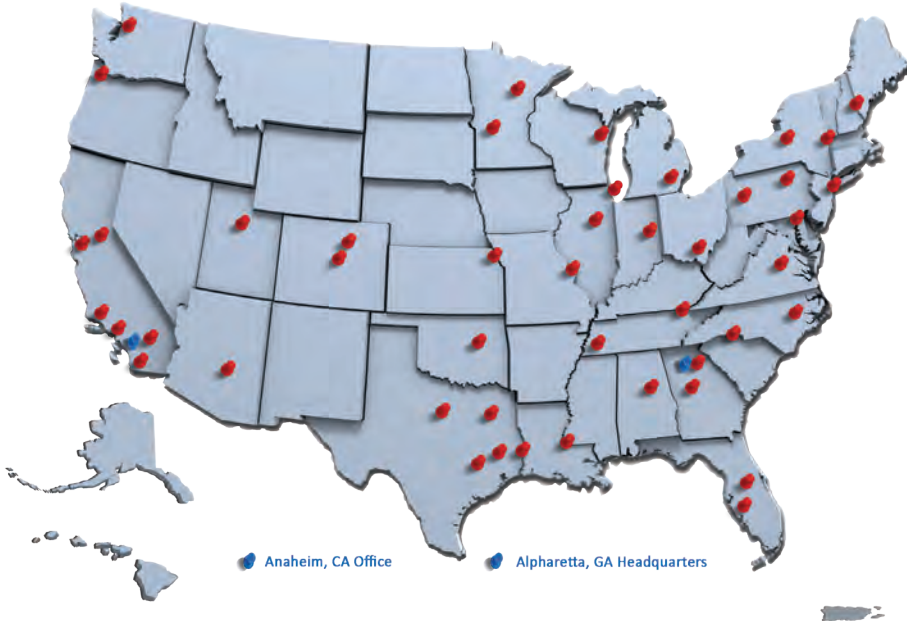
Buyer shall not use the name, pictures, logo, or other marks of Air Systems, or any abbreviation thereof in any manner, including, but not limited to, advertising, trade display, or public statement, or for any commercial purpose without the prior written consent of Air Systems, which consent may be withheld in Air Systems' sole discretion for any or no reason.

# Distributor Partners

For a listing of our Distributor Partners by state, please visit our Distributor Locator at [www.airsystems.com](http://www.airsystems.com).

Local Factory Representatives are listed at the top of each page.

## Factory Representatives - United States



**OneSolution**

Phone: (866) 352-1947

[info@onesolutionteam.com](mailto:info@onesolutionteam.com)

[www.onesolutionteam.com](http://www.onesolutionteam.com)

## Factory Representatives - Canada



**Pacesetter Sales & Associates**

2026 38 Ave SW

Calgary, Alberta T2T 2K4

Phone: (403) 618-3002

[cdalziel@pacesettersales.com](mailto:cdalziel@pacesettersales.com)

[www.pacesettersales.com](http://www.pacesettersales.com)

## Factory Representatives - Mexico and South America

**Vendedores de Fábrica Para Centroamerica, México, Sudamérica**

**Safety Sales International, LLC**

[sshillerssi@gmail.com](mailto:sshillerssi@gmail.com) Tel: (704) 516-5774

[Icronenboldssi@gmail.com](mailto:Icronenboldssi@gmail.com) Tel: (704) 900-2843

Cubrimos toda América Latina: Desde México hasta Argentina y las islas del Caribe, incluyendo Trinidad y Tobago.

**For other locations, please contact Customer Service**

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Compressors



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