2024 Master Catalog

AIR SYSTEMS INTERNATIONAL

40 Years
1984 - 2024

Innovative Safety Products

Breathing Air Filtration
Breathing Air Compressors
Breathing Air Carts & Trailers
High Pressure Breathing Air
Air Cylinder Carts
Custom Breathing Air Systems
Confined Space Ventilation
Fire and Rescue Air Products
Environmental Contol

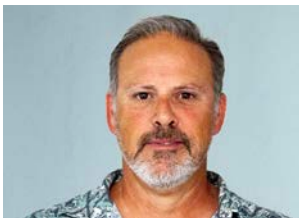
www.airsystems.com

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.

Dave Angelico
President



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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

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Understanding Breathing Air Systems

VIDEO ONLINE

*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

<u>All</u> 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^3 maximum (<1 mg/m^3 in Canada)
- Carbon Monoxide (CO): 10 ppm maximum (5 ppm in Canada)
- Carbon Dioxide (CO_2): 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 (5.6° 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)

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

or

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_2) Monitors

Made and Serviced in Chesapeake, Virginia

Carbon Monoxide (CO) Monitor

Carbon Monoxide (CO) and Oxygen (O_2) Monitor

Intrinsically Safe (IS) CO Monitor

Airline Monitor Details:

2 YEAR WARRANTY ON CO SENSOR & MONITOR

MADE IN THE USA

- **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_2) 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_2 sensor)
- **Alarm set point:** 10 ppm CO (5 ppm Canada); 19.5% O_2
- **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_2 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_2 monitors available (9 volt only)

All Breather Box® Portable and Fixed Panel Specifications:

- **1ST Stage Filter** - Filter change indicator, automatic drain, removes liquids and particulate to 5.0 micron particle size
- **2ND 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
- **3RD Stage Filter** - Filter change indicator, manual drain, charcoal removes organic vapors and objectionable odors
- In-Line Carbon Monoxide (CO) monitor. Optional CO/O_2 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

MADE IN THE USA

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.

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.

The Breather Box®

The Industry Standard in Grade-D Air Filtration

Connected to a mobile or plant compressor, the Breather Box® provides Grade-D breathing air for 1 to 8 users (based on model) and continuously monitors for Carbon Monoxide (CO). CO/O_2 and Intrinsically Safe Models are also available.

Breather Box®
BB30-CO

MADE in the USA

2 YEAR WARRANTY ON CO SENSOR & MONITOR

VIDEO ONLINE

The Breather Box® Works with *ANY* Airline Respirator Brand

Key Details:

- Carbon Monoxide (CO) Monitor
- CO/O_2 Monitor Available
- Intrinsically Safe CO or CO/O_2 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

BB50-CO
50 cfm Breather Box®
79 cfm flow capacity
4 couplings

BB75-CO Series
75 cfm Breather Box®
97 cfm flow capacity
4 to 6 couplings available

BB100-CO Series
100 cfm Breather Box®
123 cfm flow capacity
4 to 8 couplings available

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-CO4	75 cfm Breather Box®, 97 cfm flow capacity, 4 couplings
BB75-CO6	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 ½″ industrial interchange couplings Requires use of a Point of Attachment (pages 17-18)
	International Power Source - Call Customer Service for additional information
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

2 YEAR WARRANTY ON CO SENSOR & MONITOR

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_2 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
BB75-COO2	75 cfm Breather Box®, 97 cfm flow capacity, 6 couplings
B100-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
BB75-CO4R	75 cfm Breather Box®, 97 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
BB75-COIS	75 cfm Breather Box®, Intrinsically Safe, 97 cfm flow capacity, 4 couplings
BB100-COIS	100 cfm Breather Box®, Intrinsically Safe, 123 cfm flow capacity, 4 couplings

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

For Use In Hazardous Locations

Remote Alarms Available on Page 20

Contact Customer Service for custom options

Don't forget 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_2 and Intrinsically Safe Models are also available.

BB50-COPM

Key Details:

- Carbon Monoxide (CO) Monitor
- CO/O_2 Monitor Available
- Intrinsically Safe CO or CO/O_2 Monitors Available
- Three Stage Filtration (99.99% efficient at .01 micron particle size)
- Filter Change Indicators on All Filters
- Incoming Air Plug ½" Industrial Interchange
- 2 Automatic Drains with Discharge Tubes
- Remote Alarm Receptacle
- External Warning Lights and Alarm
- Steel Wall Panel, Powder Coated White

MADE in the USA

2 YEAR WARRANTY ON CO SENSOR & MONITOR

VIDEO ONLINE

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
BB75-COPM	75 cfm Grade-D breathing air panel, 97 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_2 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
BB75-CO2PM	75 cfm Grade-D breathing air panel, 97 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

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

Remote Alarms on Page 20

2 YEAR WARRANTY ON CO SENSOR & MONITOR

Don't forget 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_2 Monitor Available
- Intrinsically Safe CO or CO/O_2 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

VIDEO ONLINE

2 YEAR WARRANTY ON CO SENSOR & MONITOR

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

MADE in the USA

2 YEAR WARRANTY ON CO SENSOR & MONITOR

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-75-4	75 cfm Blast-Air™ Cart, 97 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
	Replacement Filters
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
BB75-FK	Filter kit for BB75 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	One (1) replacement prefilter for Blast-Air™ Cart. Requires 2 filters per cart.

Individual filters available on page 21

Cart Dims: 40” H x 20” W x 19” D
Cart Weight: 42 lbs

Remote Alarms on Page 20

Optional CSA certified intrinsically safe CO or CO/O_2 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/O2, 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_2 levels.

Portable CO and CO/O_2 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 inlet pressure, includes 5000 psi regulator, and 5' hose
CO2-91LAC	Portable CO/O_2 monitor, 9 VDC and/or 115 VAC, 5' hose, 150 psi maximum inlet pressure

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_2 monitor, 9 VDC only, audible alarm, visual lights, flow meter, connect hose, LCD display

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

Applications

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

Remote Alarms Available on Page 20

For Use In Hazardous Locations

MADE in the USA

Key Details:

- Includes ¼" 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_2 Levels

The carbon monoxide (CO) airline monitor panel can be ordered to retrofit any existing Grade-D breathing air system, CO and Oxygen (O_2) 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_2 Monitor

VIDEO ONLINE

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_2 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

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

Remote Alarms Available on Page 20

CO Monitor Calibration Kit - Small Cylinders for all CO Monitors

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

BBK-20

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

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
BB30-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_2 Monitors Available**
- **Intrinsically Safe CO/O_2 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

2 YEAR WARRANTY ON CO SENSOR & MONITOR

Auto-Air™ Breather Box® Air Flow

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
BB75-COAA	75 cfm Auto-Air™ Breather Box®, 115 VAC, 97 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_2 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)

MADE in the USA

For Use In Hazardous Locations

Remote Alarms Available on Page 20

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

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_2 Monitors also Available**
- **Intrinsically Safe CO/O_2 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

2 YEAR WARRANTY ON CO SENSOR & MONITOR

Large Cylinder Auto-Air™ Cart
Pneumatic Reserve Air System
BB100HTAAP

Small Cylinder Auto-Air™ Cart
Pneumatic Reserve Air System
BB50-HTAAP

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

2 YEAR WARRANTY ON CO SENSOR & MONITOR

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
	Small Cylinder Carts - 115 VAC Electronic Reserve Air System
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
	Large Cylinder Cart - 115 VAC Electronic Reserve Air System
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
	Small Cylinder Carts - Pneumatic Reserve Air System
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
	Large Cylinder Cart - Pneumatic Reserve Air System
B10023HTAP	100 cfm Auto-Air™ Cart, intrinsically safe CO monitor, 123 cfm flow capacity, 4 couplings

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

MADE in the USA

For Use In Hazardous Locations

Remote Alarms Available on Page 20

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 questions on CO/O_2 monitor repair parts or assistance on any other part number(s).

Engineering drawings and specifications will be provided for custom options.

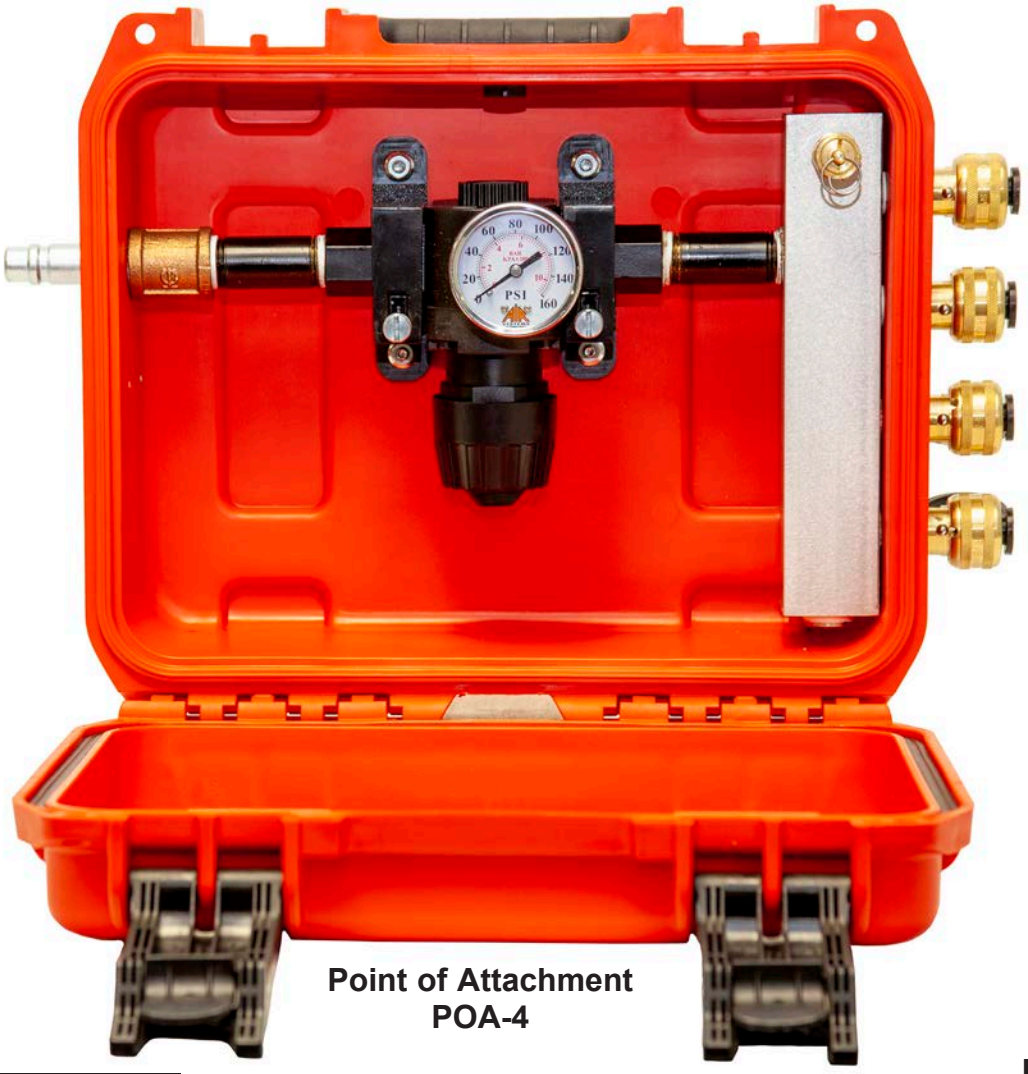
Always size the reserve air system to allow an adequate safety factor for all workers to egress the environment.

Point of Attachment (POA)

Also Known as a Remote Air Manifold

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

A POA can be located any distance from a Grade-D breathing air source.



Point of Attachment
POA-4

For Use In Hazardous Locations

See pages 5-8 for Breather Box® and breathing air panel options

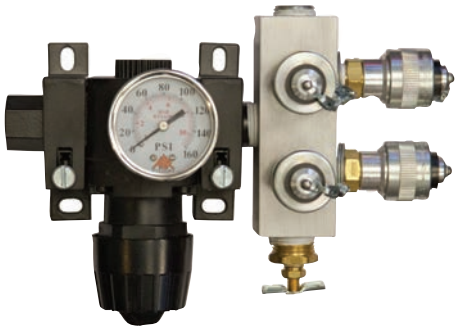
POA-4 Closed

Key Details:

- Solid Aluminum Manifold
- Adjustable Regulator
- Safety Relief Valve
- Pressure Gauge
- Intrinsically Safe
- User Specified Respirator Couplings with Dust Caps
- Incoming Air Plug ½" Industrial Interchange Standard
- NIOSH Compliant

4 Independent Regulator Point of Attachment POA-4R

NRC POA with Final Particulate Filter - 4 Outlets 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. 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. Grade-D Breathing air, such as from a Breather Box®, must be supplied to all POA's.

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-4HP	High Pressure POA Box with 4 fittings, 5000 psi
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 POA-4F, BBM-4LF, and BBM-4LF120

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

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

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

Breather Box® Grade-D Air Filtration

Airline Respirator

Point of Attachment (POA)

The Cool-Box™

Portable Cooling Breathing Air Distribution Manifold

Heat Stress Prevention

Standard COOL-BOX™
BACB-196

Just add ice for

Immediate respirator air cooling!

Key Details:

- 50°F output air temperature with input up to 180°F
- Cool Grade-D breathing air when used with a Breather Box®
- Easy to use and maintain - manual drain provided
- Aluminum jacketed tubing, USDA approved
- 30 lbs of ice provides up to 4-6 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
- **Standard COOL-BOX™** for use with all airline respirators (20-120 psi) supplied with Grade-D air
- **Low pressure COOL-BOX™** for use with ambient air pumps, 0-20 psi maximum
- **Weight:** 32 lbs
- **Dimensions:** 19" H x 19" W x 30" L

Breather Box®
BB30-CO

COOL-BOX™
BACB-196

See pages 5-6 for Breather Box® Options

Airline Respirator

Applications

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

The Cool-Box™

Item No.	Description
BACB-196	Standard COOL-BOX™ with ¼" Hansen or Schrader style fittings - rated to 125 psi maximum inlet pressure
BACB-196LP	Low Pressure COOL-BOX™ 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) not included.
BACB-196K	Low pressure air pump conversion kit (connectors & hose) for ambient air pumps.

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

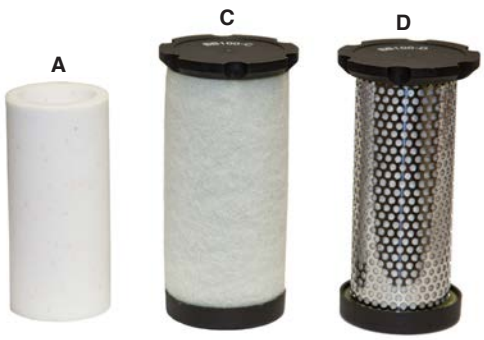
BB50 Series

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

VIDEO ONLINE

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

Airline Monitor Calibration Kits, Accessories & Sensors

BBK-20

BBK-20103

BBG-20

CO-91NS

CO2-O2

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.

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

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
	17 Liter Replacement Disposable Cylinders
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
	103 Liter Replacement Disposable Cylinders
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

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

VIDEO ONLINE

How Often Should I Calibrate The Monitor?

Air Systems recommends calibrating our CO and CO/O_2 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.

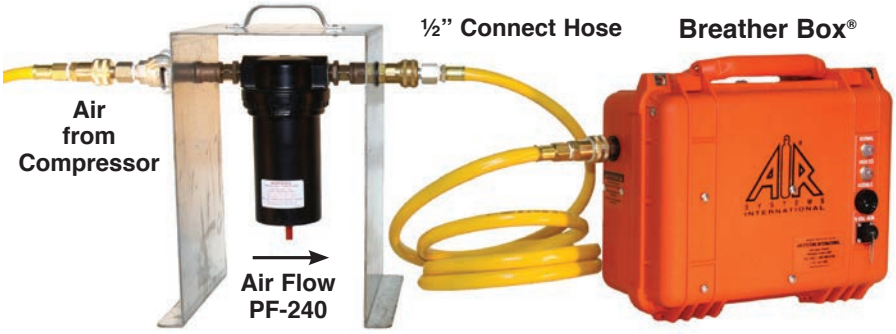
Zero Air - When calibrating the monitor, Zero Air is used to achieve a true zero reading on the monitor before using the Carbon Monoxide (CO) test gas. Zero air removes all background interference gasses.

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_2) - For CO/O_2 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 ½" Chicago fitting on inlet, ½" 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, ½" Chicago inlet, and ½" Hansen 5000 style socket outlet, with auto drain
PF-240	High capacity portable compressor prefilter with steel stand, 240 cfm capacity, ½" Chicago inlet, and ½" 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 - ¼" Hansen style fittings
H-10-3	10 foot length - ¼" Hansen style fittings
H-25-3	25 foot length - ¼" Hansen style fittings
H-50-3	50 foot length - ¼" Hansen style fittings
H-100-3	100 foot length - ¼" Hansen style fittings
H-300-3	300 foot length - ¼" Hansen style fittings

1/2" Breathing Air Hose - Yellow

Item No.	Description
H-6-5	6 foot length - ½" Hansen style fittings
H-10-5	10 foot length - ½" Hansen style fittings
H-25-5	25 foot length - ½" Hansen style fittings
H-50-5	50 foot length - ½" Hansen style fittings
H-100-5	100 foot length - ½" Hansen style fittings
H-300-5	300 foot length - ½" Hansen style fittings

3/4" Breathing Air Hose - Red

Item No.	Description
H-25-12	25 foot length - ½" Hansen style fittings
H-50-12	50 foot length - ½" Hansen style fittings
H-100-12	100 foot length - ½" 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.

Whip Check Air Hose Safety Cable

Item No.	Description
ASWHIPLINE	Hose to Hose - fits OD ½" to 1¼" hose (20" length)
ASWHIPLN10	Hose to Hose - fits OD 1" to 2½" hose (28" length)
ASWHIPLN15	Hose to Hose - fits OD 1½" to 3" hose (38" length)
ASWHIPTL20	Hose to Tool - fits OD ½" to 1¼" hose (20" length)

Breathing Air Hose Reels

HR-100M
Manual Reel

HR-50
Automatic Reel

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

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

Item No.	Description
HR-50M	Holds 50 feet of ⅜” ID hose or 25 feet of ½” ID hose
HR-100M	Holds 100 feet of ⅜” ID hose or 50 feet of ½” ID hose
HR-300M	Holds 300 feet of ⅜” ID hose or 150 feet of ½” ID hose
HR-450M	Holds 450 feet of ⅜” ID hose or 300 feet of ½” ID hose
HR-550M	Holds 550 feet of ⅜” ID hose or 300 feet of ½” ID hose
	Manual Hose Reel Cart
HR-200MC	Cart with handle and roller wheels - holds 225 feet of ⅜” or 200 feet of ½” ID hose

Reel colors may vary depending on reel type ordered.

HR-200MC
Manual Hose Reel Cart

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

Item No.	Description
HR-50	Holds 50 feet of ⅜” ID breathing air hose
HR-50SS	Holds 50 feet of ⅜” ID breathing air hose, stainless steel reel
HR-100	Holds 100 feet of ⅜” ID breathing air hose
HR-100-5	Holds 100 feet of ½” ID breathing air hose
HR-505	Holds 50 feet of ½” ID breathing air hose
HR-575	Holds 75 feet of ½” ID breathing air hose

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

Item No.	Description
HR-50POA	NIOSH point of attachment reel, holds 50' of ⅜” ID breathing air hose, installed regulator, pressure gauge, and safety relief valve. Use with NIOSH approved respirator hose.
HR-100POA	NIOSH point of attachment reel, holds 100' of ⅜” 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
HPR-50	Holds 50 foot of ¼” ID, 5000 psi high pressure air hose
HPR-350	Holds 50 foot of ¼” ID, 6000 psi high pressure air hose
HPR-100	Holds 100 foot of ¼” ID, 5000 psi high pressure air hose
HPR-1006K	Holds 100 foot of ¼” ID, 6000 psi high pressure air hose

Breathing air hose ordered separately See page 23.

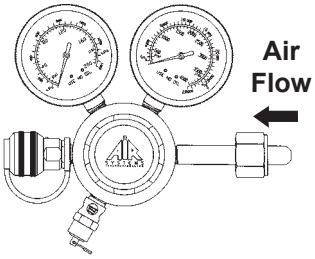
All reels can be purchased with breathing air hose installed.
Hose reels can be mounted on roller carts.
Consult Customer Service for additional details.

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

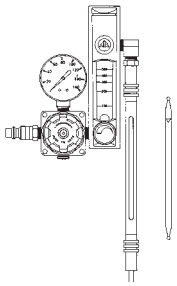
High Pressure Cylinder Air Test Module



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

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-weighted 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

47 mm Filter Pre-weighted
MW-47

Total Particulate Test Module
LP-47PF

Compressed Air Cylinder Test Kit

The AQTCOO2KIT 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_2) 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_2 Cylinder Test Kit AQTCOO2KIT

Visual Air Flowmeter to Monitor

High Pressure Connect Hose

Always Test Cylinder Air Quality Prior to Use

The CO/O_2 Cylinder Test Kit contains all the components to test blended breathing air cylinders.

CO/O_2 Cylinder Test Kit

Item No.	Description
AQTCOO2KIT	Test Kit - CO/O_2 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 Test Kit ACK-97H

AirCheck™ Air Sampling Kits for Purchase or Rental

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

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

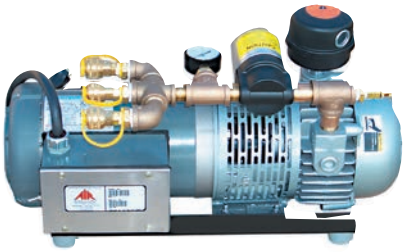
For proper air pump operation: Always choose a constant flow respirator designed and approved to operate with an ambient air pump, ***under 15 psi.*** Specify the approved respirator coupling size when ordering a particular model pump that matches the respirator hose selected.
Air pump compressors MUST be placed in a clean air environment per OSHA 1910.134.

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)

BAC-10 - 2 Worker

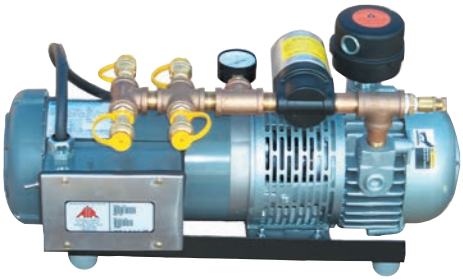
- Operates 1 hood style respirator or 2 tight fitting constant flow masks, respirator requirements CANNOT exceed maximum pressure of 15 psi
- Maximum 10 psi at 9 cfm output, 9.5 cfm output at 4 psi
- Electric motor: 3/4 HP, ODP, 100-115/208-230 VAC, 9.2/4.8 amps, 50/60 Hz
- Weight: 55 lbs

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

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.

COOL-BOX™ Cool Breathing Air Mainfold available on page 19

The Portable Cool-Air™ Pump

Twin Air™ Tank Mounted Ambient Air Pumps

Portable Cool-Air™ Pump
BAC-203TCO
With CO Monitor

Portable Cool-Air™ Pump
BAC-20P-3T
No CO Monitor

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.

MADE in the USA

2 YEAR WARRANTY ON CO SENSOR & MONITOR

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
	With CO Monitor
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
	No CO Monitor
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
BAC-20P-3T	BAC-20P pneumatic compressor on Twin-Air™ tanks, up to 4 workers

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

Portable CO and CO/O_2 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_2 monitor, 9 VDC and/or 115 VAC, 5' hose, 150 psi maximum inlet pressure

Calibration kits available on page 22

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 only 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 &
BB30-CO 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 **See Page 6 for Breather Box® options for Grade-D Air**
TA-3EXP	Twin-Air™ Compressor, 2 HP explosion-proof electric, 230/3 VAC only, 3 phase, no plug, user wired per NEC requirements. Explosion-proof plugs sold on page 64. **See Page 6 for Breather Box® options for Grade-D Air**
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 22

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 System & Components

Item No.	Description
COMP-3EA	TA-3EA compressor, ½” x 10’ hose, ⅜” x 10’ hose, high pressure regulator, and BB30-COAA Auto-Air™ 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. **See Page 6 & 14 for Breather Box® options for Grade-D Air**
BB30-FK	Replacement filter kit for BB30-COAA Breather Box®
	Reserve Air Cylinders
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 22

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

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.

2 YEAR WARRANTY ON CO SENSOR & MONITOR

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

For Use In Hazardous Locations

Optional AC-87 Reserve Air Cylinder Location

Explosion-Proof Auto-Air™ Compressor TA3-AXAF

Explosion-Proof Auto-Air™ Compressor

Item No.	Description
TA3-AXAF	Grade-D breathing air filtration, air control panel with CO monitor, three (3) couplings for 1 to 3 workers, 25’ power cord, user wired per NEC requirements. Explosion-proof plug and reserve air cylinder sold separately.
BB30-FK	Replacement filter kit for TA3-AXAF
	Reserve Air Cylinders
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

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

Calibration kits available on page 22

2 YEAR WARRANTY ON CO SENSOR & MONITOR

MADE in the USA

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.

Reserve Air System
Skid Mounted

Reserve Air
System
in Trailer

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 compression units to 26 cfm capacity.

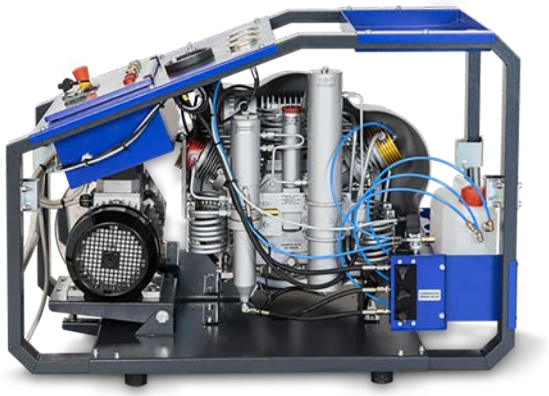
Call Customer Service to discuss your particular application or fill out the High Pressure Compressor Questionnaire located at www.airsystems.com to design a custom system to meet your needs.

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

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

2 Position Fill Station Open

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.

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

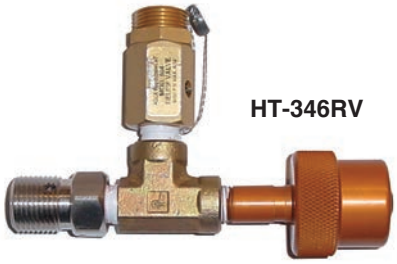
Cascade fill assemblies are used for refilling 2216 or 4500 psi SCBA cylinders. Fill assemblies include a 5 foot high pressure fill whip, gauge, universal hand-tight nut CGA 346/347, on/off valve, and bleed valve. Cylinder connecting whips are supplied with a CGA stem, nut, and tee assembly. Additional 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” Connecting 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	**Low Pressure Fill Whip** CGA-346, 3000 psi max, universal hand-tight nut
HP-FW5-347	**High Pressure Fill Whip** CGA-347 only, 5000 psi max, hand-tight nut
HP-FW5-702	**Ultra High Pressure Fill Whip** 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 ¼” 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

HP-CW1-347

POA-2HPWM

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.

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

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

Breathing Air Regulators & Manifolds

Item No.	Description
	Breathing Air Regulators (1/4" QD Fitting)
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
	Breathing Air Manifolds
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

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™
BR-6AL
Order Hardware and Cylinders Separately

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.

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_2 Blended Air Cylinder Test Kit

Item No.	Description
AQTCOO2KIT	Test Kit - CO/O_2 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_2 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

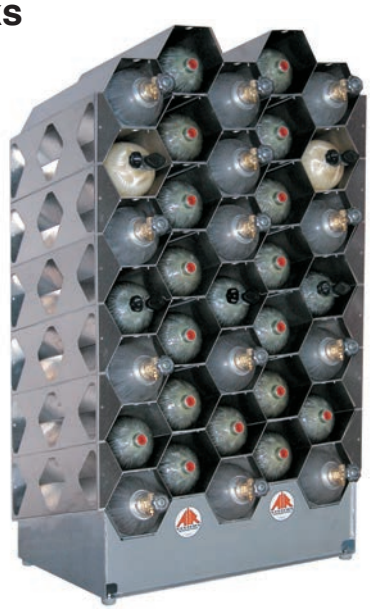
Item No.	Description
AK40-15	AIR-KADDY™ 15 cylinder rack - 36" H x 37½" W x 22½" D
AK40-25	AIR-KADDY™ 25 cylinder rack - 60" H x 37½" W x 22½" D
AK40-35	AIR-KADDY™ 35 cylinder rack - 68" H x 37½" W x 22½" D
AK40-40	AIR-KADDY™ 40 cylinder rack - 76" H x 37½" W x 22½" D

Thread Saver®

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

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

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



AIR-KADDY™ with Cylinders AK40-35

PAK SCBA Cylinder Systems

PAK-SFL™ Single Cylinder

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.

For Use In Hazardous Locations

Key Details:

- Portable 1 user breathing air PAK
- Supplied with 1 respirator fitting
- 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 7⅘" W x 4½" H
- Weight: 7 lbs (no cylinder)

PAK-SFL™ 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 cylinders on page 40

UNI-PAK™ Single Cylinder

Key Details:

- Portable 1 or 2 user breathing air PAK
- Supplied with 2 respirator fittings
- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- Safety relief valve, 125 psi
- Powder coated steel frame
- Dimensions: 34" L x 7⅘" W x 4½" H
- Weight: 7 lbs (no cylinder)

Optional Carrier PAK-UNI1C

UNI-PAK™ PAK-UNI1

For Use In Hazardous Locations

DUAL-PAK™ Dual Cylinder

Key Details:

- Portable 1 to 3 user breathing air PAK
- Supplied with 3 respirator fittings
- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- Safety relief valve, 125 psi
- Dimensions: 18" L x 9" W x 7" H
- Weight: 13 lbs (no cylinder)

For Use In Hazardous Locations

DUAL-PAK™ PAK-3HPFHR

Steel Single Cylinder UNI-PAK™

Item No.	Description
PAK-UNI1	UNI-PAK™ holds a single cylinder, 2 outlet, 4500 psi rated, regulator, and low pressure alarm whistle. Carrier not included (see below).
PAK-UNI1C	Polyethylene carrier for PAK-UNI1

Cylinder sold separately - see cylinders on page 40

Case Mounted DUAL-PAK™

Item No.	Description
PAK-3HPFHR	DUAL-PAK™ - Two 4500 psi CGA-347 hand-tight whips. 3 outlets, adjustable regulator, low pressure alarm whistle, polypropylene case, and cylinder strap

Cylinder sold separately - see cylinders on page 40

PORTA-PAK™ SCBA Cylinder Systems

PAK-3™ Breathing Air Cylinder Tray

Key Details:

- Portable 1 to 4 user breathing air PAK
- Supplied with 4 respirator fittings
- 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)

PAK-3
Cylinders sold separately

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

PORTA-PAK™ Rescue Cart

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

Key Details:

- Portable 1 to 4 user breathing air PAK
- Supplied with 4 breathing air respirator fittings & 1 tool fitting
- 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 Cart PAK-4R

Cylinders sold separately

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. **No cover or cylinders.**
PAK-4	PORTA-PAK™ Rescue tray assembly includes 3-way cylinder directional valve, secondary low pressure regulator, gauge, and additional outlet fitting. **No cart, cover or cylinders.**
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

MULTI-PAK™ Air Cylinder Carts

MULTI-PAK™ SCBA cylinder carts 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)

MADE in the USA

For Use In Hazardous Locations

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 **wrench tight nuts**
MP-2H	MULTI-PAK™ 2 cylinder air cart, 4500 psi, supplied with 2 outlet manifold, CGA-346/347 **hand tight nuts**
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, **hand tight nuts**
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, ¼” 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 ⅜” hose
- 16” pneumatic tires
- Dimensions: 62” H x 25” W x 30” D
- Cart only weight: 112 lbs (no cylinders)

For Use In Hazardous Locations

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, **pneumatic alarm whistle** (bell alarm available) for Hazardous Locations. 112 lbs with no cylinders.
MP-2300HNB	MULTI-PAK™ 2 cylinder air cart, 5000 psi, **electronic alarm whistle** 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.

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

Helps Reduce Lifting Injuries

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

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
	Pneumatic Tires, 5000 psi Regulator, & Low Pressure Whistle
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 ⅜" hose per reel
EAC-97PS3M	Ergo-Air® cart, upper storage box, 1 manual hose reel - holds 200 feet of ½" or 300 foot of ⅜" hose
EAC-97PSM2	Ergo-Air® cart, upper storage box, 2 manual hose reels - holds 100 feet of ⅜" hose per reel
	Semi-Pneumatic Tires, 5000 psi Regulator, & Low Pressure Whistle
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 ⅜" hose per reel
EAC-97SBM3	Ergo-Air® cart, upper storage box, 1 manual hose reel - holds 200 feet of ½" or 300 foot of ⅜" hose
EAC-97SB2M	Ergo-Air® cart, upper storage box, 2 manual hose reels - holds 100 feet of ⅜" hose per reel
EAC-C	Nylon cart cover - fits all Ergo-Air® carts

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

MADE in the USA

For Use In Hazardous Locations

Ergo-Air® Carts - Pre-Designed Models

Ergo-Air® Cart
EAC-97SB2M
Semi-pneumatic tires, upper storage cabinet, and two manual reels.
Hoses sold separately

Ergo-Air® Cart
EAC-97PS2A
Pneumatic tires, upper storage cabinet, and two automatic reels.
Hoses sold separately

Cylinders & Hose Sold Separately

Ergo-Air® Cart
EAC-97SBM3
Semi-pneumatic tires, upper storage cabinet, and manual reel.
Hose sold separately

Building a Custom Ergo-Air® Cart

Options to Build Custom Ergo-Air® Cart:
1) Hazardous or Non-Hazardous Location?
2) Regulator Type?
3) Tire Type?

Now choose factory installed options:
1) Storage Cabinet?
2) Hose Reels?
   - Manual?
   - Automatic?
3) Hose Size and Length?
4) Cylinders and Regulator?
   - CGA-346 (2400 psi)?
     - AC-300 Cylinder (300 CF)?
   - CGA-347 (5000 psi)?
     - AC-444 Cylinder (444 CF)?
     - AC-472 Cylinder (472 CF)?
5) Cart Cover?

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

Custom Ergo-Air®
Ergo-Air® cart with semi-pneumatic tires (EAC-97HNB), upper storage cabinet (EAC-97SBU), & dual manual hose reels (EAC-97210M) installed at time of purchase.

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

Breathing Air Transporter™

Economical Breathing Air Where You Need It!

Designed for ease of use for rapid response and/or routine operations.

MADE in the USA

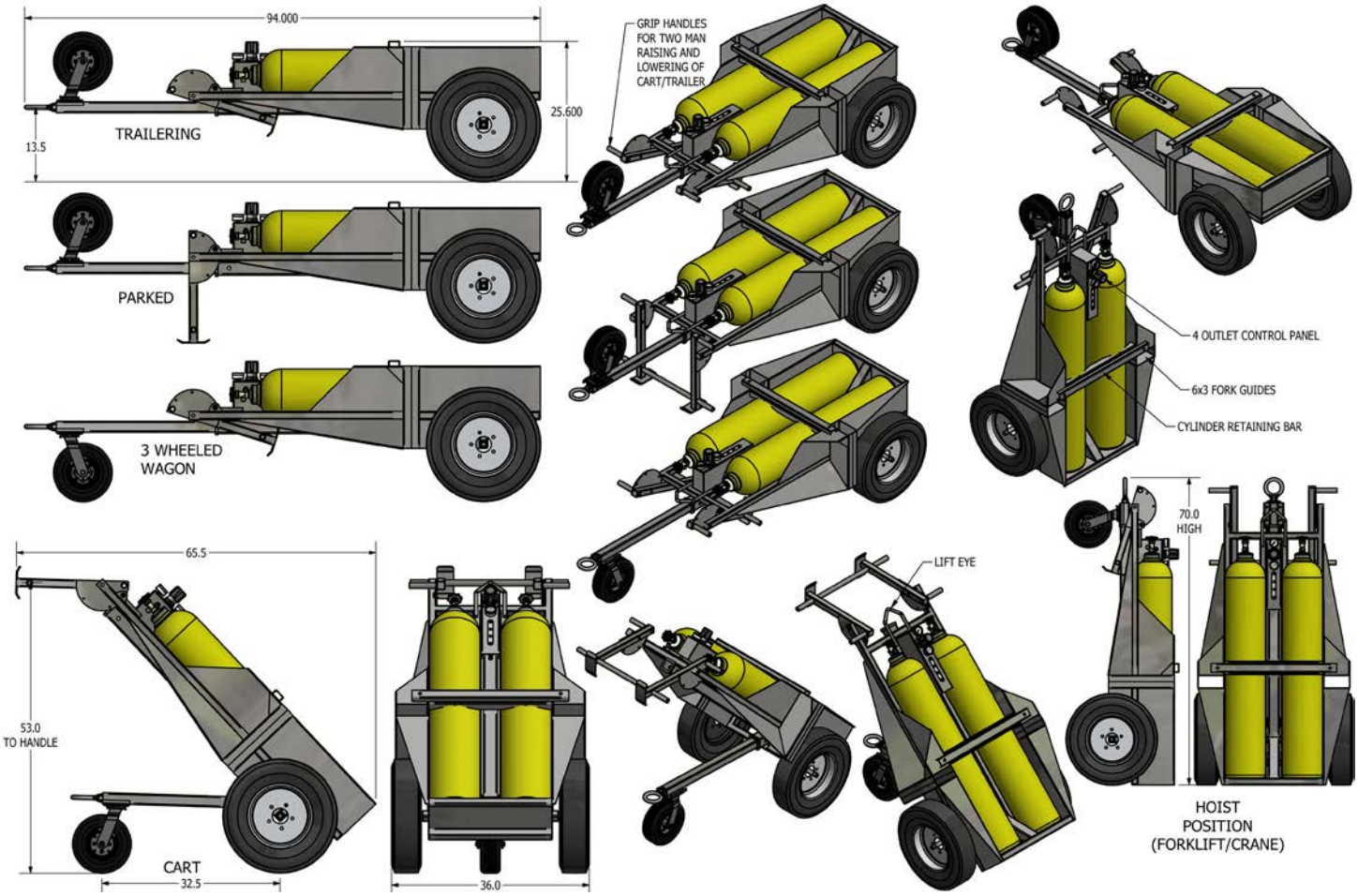
Patent Pending

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™ (BAT) 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

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

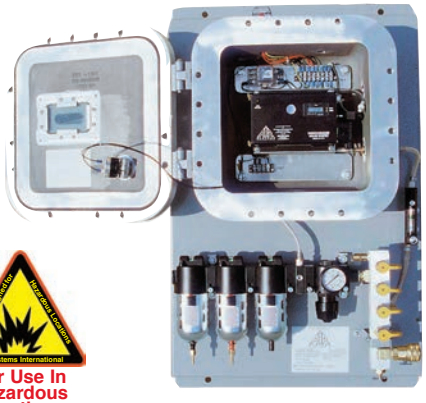
Grade-D Filtration
for Clean Room Applications

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

6 Cylinder
Air Cart with
Control Box



For Use In Hazardous Locations

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.

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

Emergency Response Trailers for Long Duration Breathing and /or Cylinder 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

Long Duration Air Storage Hazardous Response Trailers

All carts can be customized to meet your particular application.

Custom Air-Wagon™

Custom Response Trailer

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 for use with 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 low light conditions

MACK-2

MACK-2 in Use

MACK-2™ Key Details:

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

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 page 53

For Use In Hazardous Locations

MADE in the USA

MACK-NFPA™ Rescue Series

For Confined Space Rescue Teams

The MACK-NFPA™ series was developed for Fire/Rescue teams working under NFPA guidelines. The NFPA version comes in two standard models with each having 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-NFPA1™

- Two independent regulators with 3-outlet manifolds
- Low pressure breathing air manifold, 125 psi maximum
- Four 5 foot SCBA connect whips for incoming air supply
- Inlet whips can be connected to 2216 or 4500 psi cylinders
- Low pressure alarm whistles

MACK-NFPA1

MACK-NFPA3™

- MACK-NFPA1 specifications above
- Regulator Isolation Valve
- CGA-347 male adapter for use with a high-pressure compressor or a truck mounted cascade system.

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 page 53

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/tools
- One medium pressure regulator, max 275 psi, 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

For Use In Hazardous Locations

MACK-3™

Item No.	Description
MACK-3	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
MACK-3FA	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

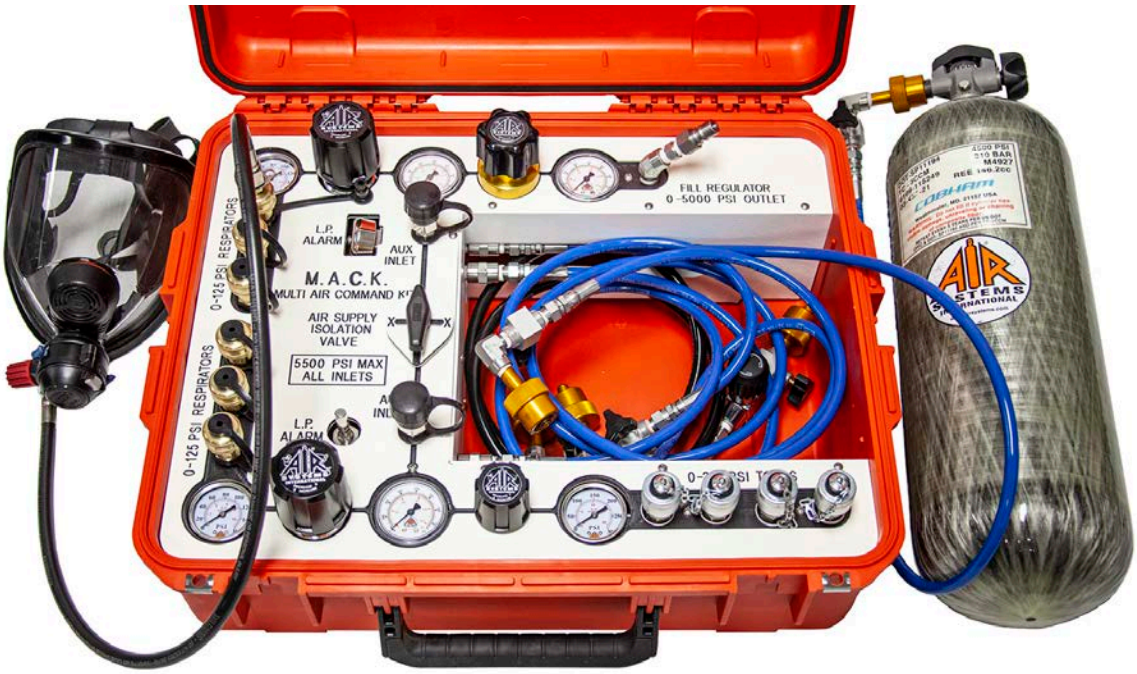
Cylinders sold separately - see page 53

The MACK-5500™ Series

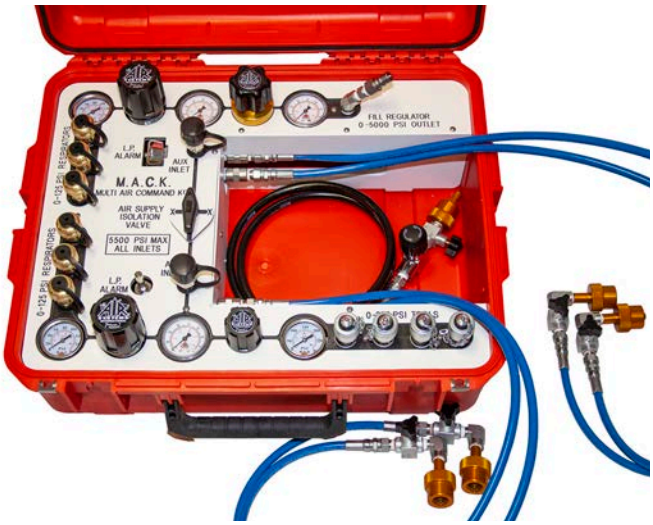
Designed For 5500 PSI High Pressure Cylinders

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

MADE in the USA

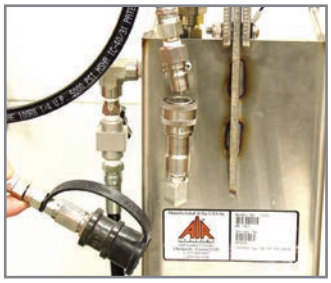
For Use In Hazardous Locations

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.

MADE in the USA

For Use In Hazardous Locations

Key Details:

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

Dimensions: 21” L x 16” W x 41” H (handle up), 34.5” H (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

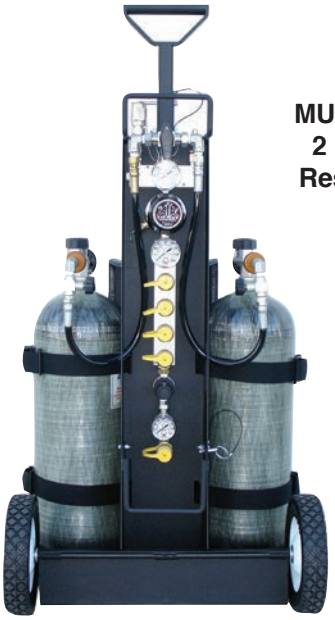
Item No.	Description
MP-TR1	Tech-Rescue™ Cart, ¼” Hansen style or Schrader style fittings standard.
QFH-5MPTR1	5 foot Quick-Fill hose installed on MP-TR1 **(installed at time of order)**
CW-300	25 foot high pressure connect whip, CGA-347 hand tight (both ends) with bleed valves, connects from cart to 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

For Use In Hazardous locations

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.

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, **hand tight nuts**
MP-C	Cart cover - 400 denier black nylon for small MP-series carts

Cylinders sold separately - See Page 53

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)

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

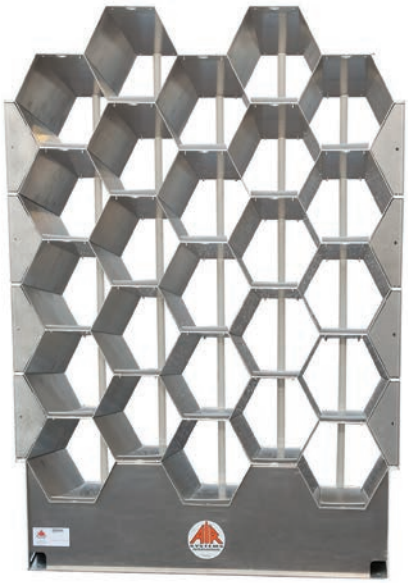
Air Systems’ experienced technical staff and engineering department can design a mobile breathing air response system tailored to your exact requirements.

Contact Customer Service for options and specifications

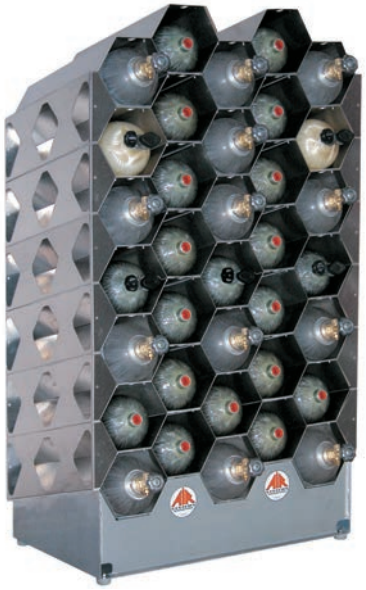
AIR-KADDY™

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 or vehicle style Series 24 narrow space 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.

AIR-KADDY™ Racks in Fire Truck
AK24-11

Thread Saver®

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

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

Thread Saver®

Blower & Fan Selection Guide

Atmospheric Testing Results

VIDEO ONLINE

- **Hazardous**
  - **Explosion-Proof**
    - **Heavy Duty** — Page 64
    - **Medium Duty** — 8" & 12" Page 71 & 72
    - **Long Duct Runs** — Page 67
  - **Intrinsically Safe**
    - **Pneumatic** — Page 64
    - **Venturi** — Page 75
    - **Jet Fans** — Page 76
  - **Custom**
- **Non-Hazardous**
  - **No Electricity or Air Available** → **Gas** — Page 62
  - **Compressed Air Available**
  - **Electric**
    - **Shorter Duct Run**
      - **Medium Duty**
        - **Steel** — Page 66
        - **Plastic** — 8" & 12" Page 69 & 70
    - **Longer Duct Run**
      - **Heavy Duty** — Page 62
      - **Medium Duty** — Page 62
      - **Long Duct Runs** — Page 67
    - **Custom Blowers**

Page 62

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 Industrial Saddle Vent® was constructed of standard polyethylene, which carries the potential of static electricity build-up on its surface. Static electricity is a possible source of ignition of gases, dust, and other flammable materials. Air Systems developed an improved Saddle Vent® to safely remove potential static electrical charges from the 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.

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 Use In Hazardous Locations

See the Conductive Saddle Vent® System Set Up Procedure at www.airsystems.com

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

VIDEO ONLINE

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

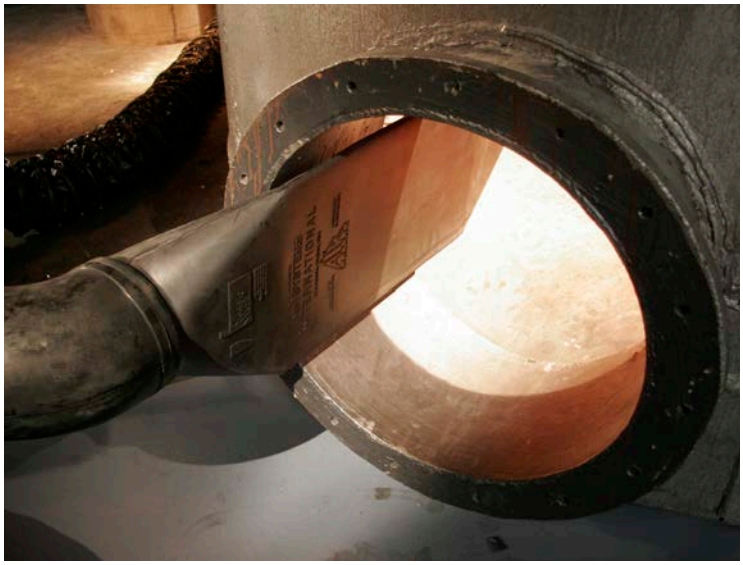
Tank 90° Elbow - 8" SV-90T

Universal Mount SV-UM

The Saddle Vent®

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

VIDEO ONLINE



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.**

32" Tall

8" Opening

SV-189T

Fire Retardant Meets UL-94 V-2

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

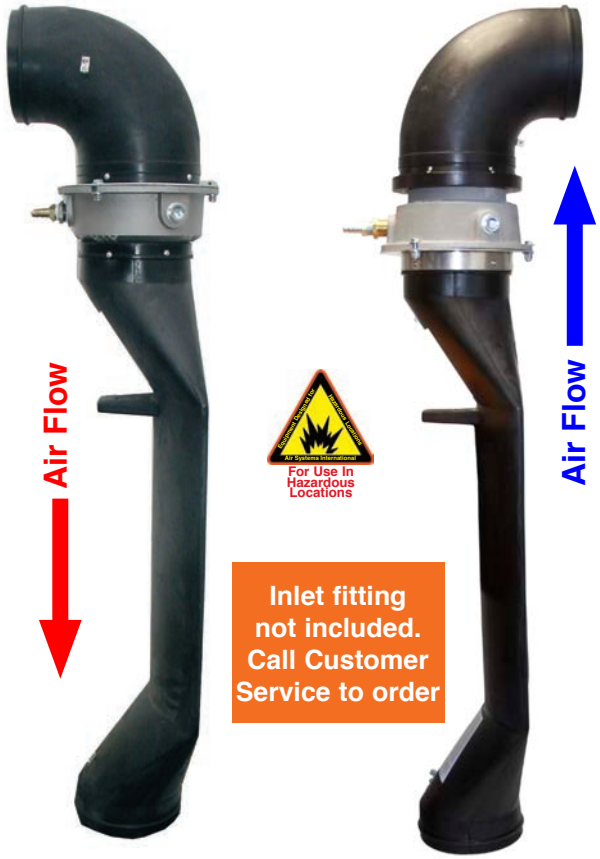
The Saddlator™ provides positive or negative pressure ventilation for confined space entry operations in large work areas or tanks and is ideal for hazardous environments.

Key Details:

- Conductive 8” Saddle Vent® with Venturi blower installed
- 90º bolt-on conductive elbow, supplied
- Air operated with no moving parts
- ½” Industrial Interchange plug
- Static ground lug installed
- Delivers 2000 - 3000 cfm with pressures from 50 -100 psi

The Saddlator™

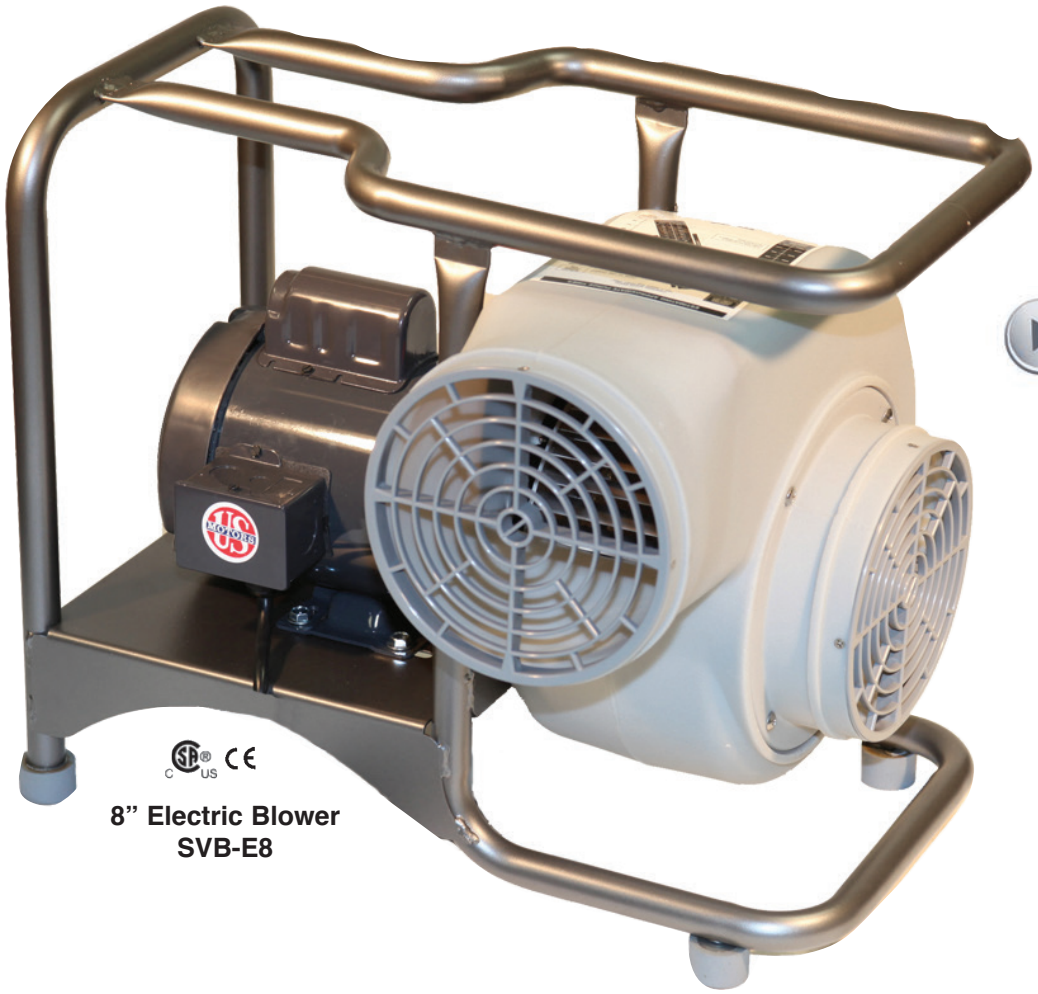
Item No.	Description
SV189-29	Saddlator™, positive pressure flow, and elbow
SV189-29-N	Saddlator™, negative pressure flow, and elbow
SV90-29	90° bolt-on elbow to fit Saddlator™
SV189T-29	Tank Saddlator™, positive pressure flow, and elbow
H-50-5	1/2″ compressor connect hose w/O/D fitting - 50 foot
H-50-12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



SV189-29
Positive Pressure

SV189-29-N
Negative Pressure

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:

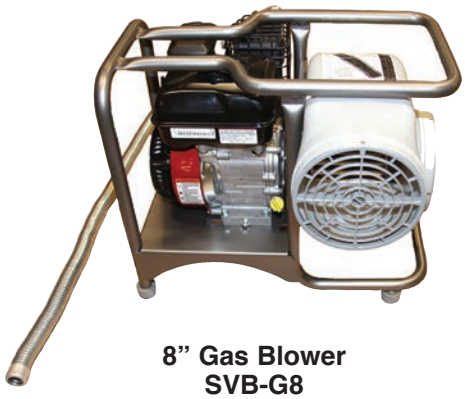
- 8” intake and exhaust
- Non-sparking aluminum blower wheel
- Polyethylene fan housing & safety guards
- Molded polyethylene safety guards
- Powder coated tubular steel frame, dual handles

Applications

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

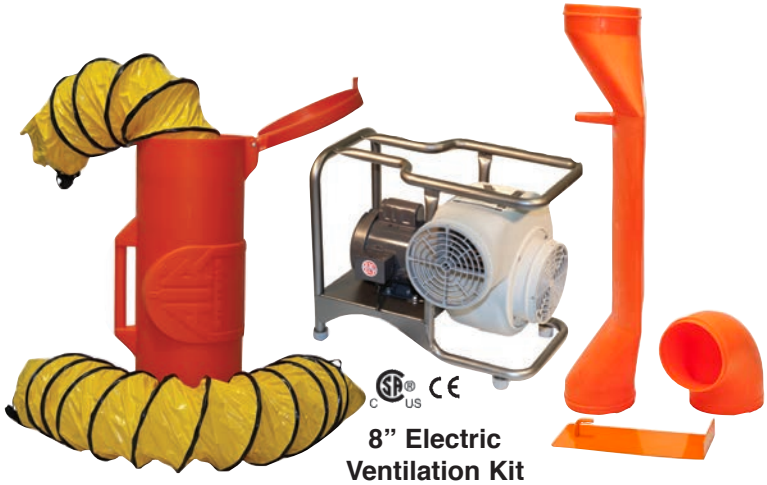
8" Economy Electric Blower SVB-E8EC

8" Electric Blower SVB-E8



8" Gas Blower SVB-G8

8" Economy Electric Ventilation Kit SVB-E8CUP



8" Electric Ventilation Kit SVB-E8SCUP

8" Centrifugal Blowers - Non-Hazardous Locations

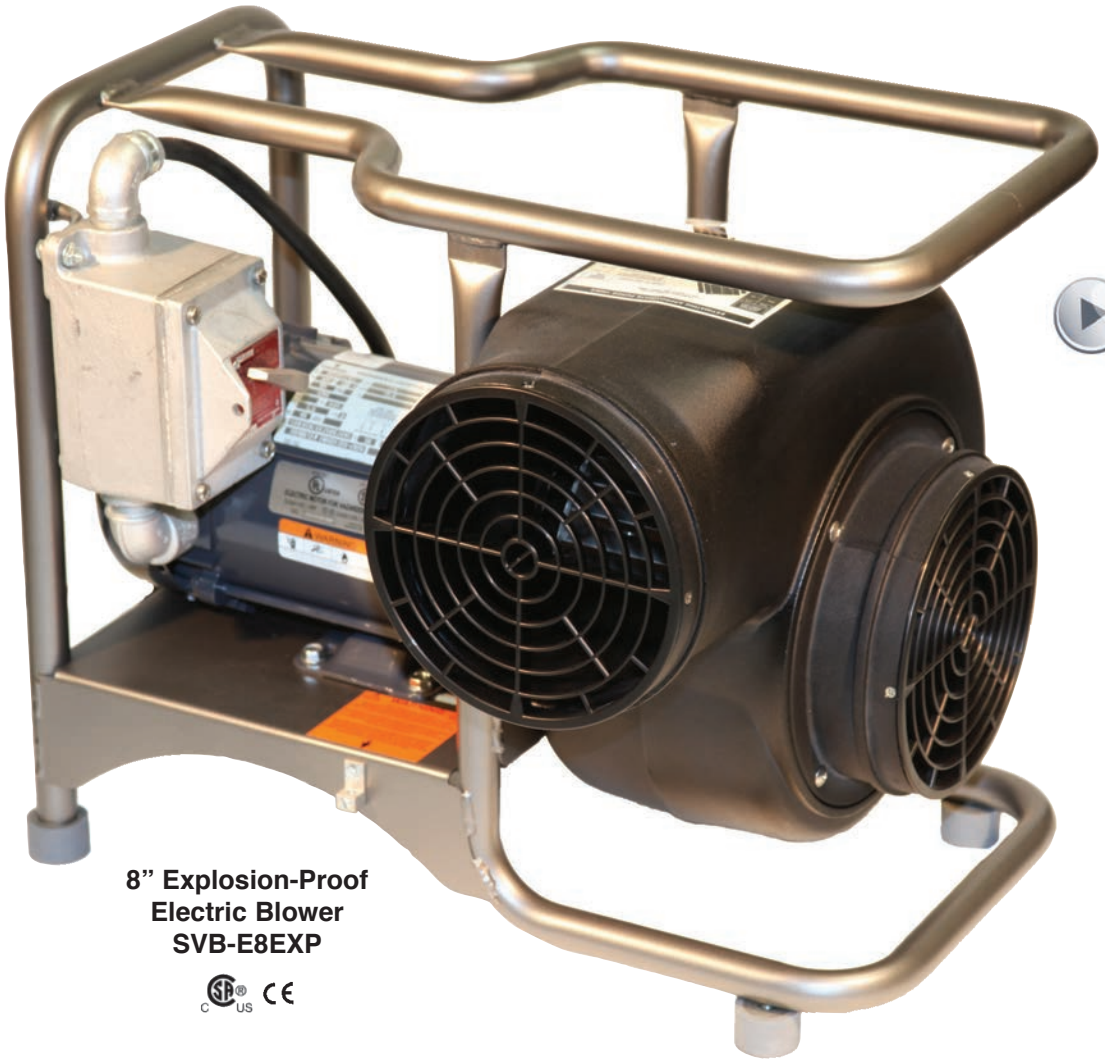
Item No.	Description
SVB-E8EC	Electric (Economy) motor - 1/2 HP, TEFC, 115 VAC, 8 amps, 60 Hz, GFI power cord. CSA C/US Certified. CE Registered. 43 lbs
SVB-E8	Electric motor - 3/4 HP, TEFC, 115 VAC, 10.8 amp, 60 Hz, GFI power cord. CSA C/US Certified. CE Registered. 62 lbs
SVB-E850	Electric motor - 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	**Ventilation Kit:** 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

VIDEO ONLINE

MADE in the USA

For Use In Hazardous Locations

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

For Use In Hazardous Locations

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
SVB-E8EXP	Explosion-proof electric blower - 3/4 HP, 115 VAC, 60 Hz, 12.6 amp. CSA C/US Certified. CE Registered. 72 lbs, **no plug.**
SVB-E8X250	Explosion-proof electric blower - 3/4 HP, 230 VAC, 50 Hz, 78 lbs CE Registered. **No plug.**
SVB-A8	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 for Hazardous Locations

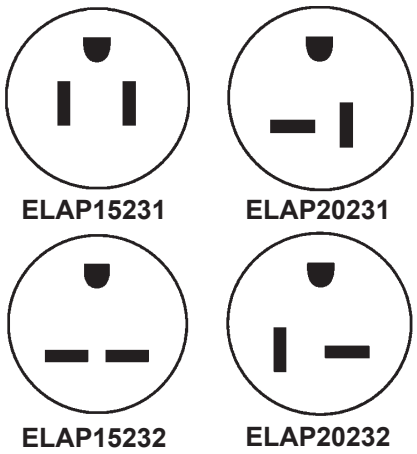
Item No.	Description
SVB-E8XCUP	SVB-E8EXP explosion-proof electric blower and SV-CUPCND Conductive Kit, **no plug.**
SVB-A8CUP	SVB-A8 Intrinsically Safe pneumatic blower and SV-CUPCND Kit
SV-CUPCND	**Conductive Ventilation Kit**: Conductive Saddle Vent®, 90° conductive elbow, 6 and 15 foot conductive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

Explosion-Proof Plug sold separately. See below.

Explosion-Proof Plugs - Certified

Item No.	Description
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.



ELAP15231 ELAP20231 ELAP15232 ELAP20232

Explosion-Proof Plugs

Custom Centrifugal Blowers

1.5 HP TEFC motor
6" Intake/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.

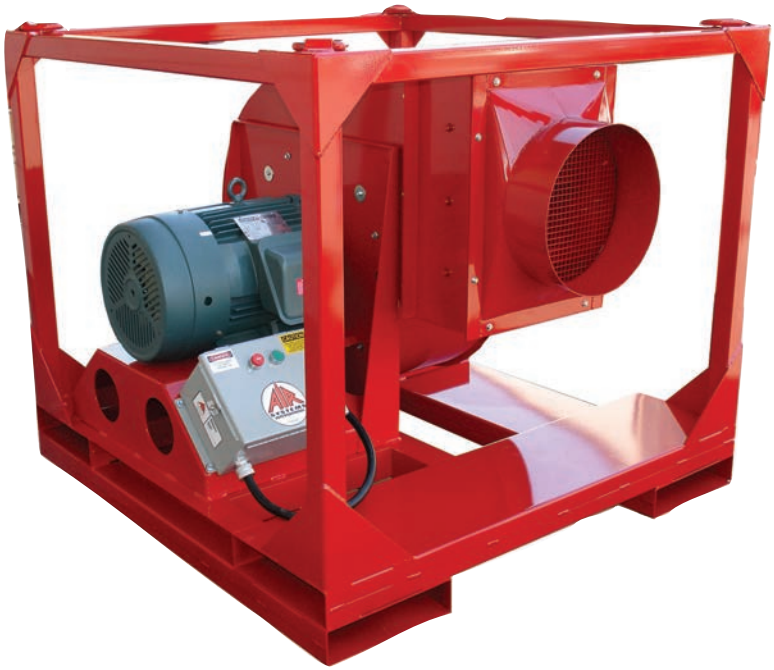
Options for Small Portable Custom Blowers:

- 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

1.5 HP Explosion-Proof motor
8" Inlet/Outlet

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 with optimum 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
	8” Steel Axial Fans
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
	8” Steel Axial Canister Fans
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
	Steel Axial Saddle Vent® Ventilation Kits
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

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

SVF-10EXP

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 boost ventilation in 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.

Approved for Hazardous Location Usage:

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
	Non-Hazardous Locations
SVF-10E	10” Electric in-line fan, continuous duty, ⅓ HP, 115 VAC, 60 Hz. CSA C/US Certified. CE Registered. 30 lbs
SVF-10AC50	10” Electric in-line fan, continuous duty, ⅓ HP, 230 VAC, 50 Hz. CE Registered. 30 lbs
	Hazardous Locations
SVF-10EXP	10” Explosion-proof electric in-line fan, continuous duty, ⅓ HP, 115 VAC, 1-phase, 60 Hz, 25 foot power cord, **no plug**. CSA C/US Certified, CE Registered. 38 lbs
SVF-10X220	10” Explosion-proof electric in-line fan, continuous duty, ⅓ HP, 230 VAC, 50/60 Hz. 7.6 meter power cord, **no plug**. 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 - Certified

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
	Non-Hazardous Locations
SVF-10ECUP	SVF-10E fan, Industrial Saddle Vent®, 6 & 15 foot 8” duct, duct canister, 90° elbow, & universal mount
	Hazardous Locations
SVF10EXCUP	SVF-10EXP fan, Conductive Saddle Vent®, 6 & 15 foot 8” conductive duct, duct canister, conductive 90° elbow, and universal mount - **no plug**

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

Certified for Outdoor Use

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

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
	Duct Canister Only - Fits 8” CVF Fans
CVF-CAN15	8” Duct canister with 15 foot duct, **no fan**
CVF-CAN25	8” Duct canister with 25 foot duct, **no fan**

Emergency Response
Ventilation Kit
ERVK-15DC

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” Saddle Vent®
SV-18912-O

Saddle Vent® Mount
SV-UM

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
	Duct Canister Only - Fits 12” CVF Fans
CVFCAN1215	12” Duct canister, 15 foot duct, **no fan**
CVFCAN1225	12” Duct canister, 25 foot duct, **no fan**

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

8” Explosion-Proof Axial Fans and Kits
For Hazardous Locations

8” Axial Fan
CVF-8EXP

For Use In Hazardous Locations

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

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

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 **No plug.**
CVF-8X220	230 VAC, 1/3 HP, 50 Hz, 7.6 meter power cord, ATEX and IECEx Certified. 23 lbs / 10.4 kg **No plug.**

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, **no plug**
CVF15CANEX	CVF-8EXP fan, 15 foot conductive duct & conductive canister, **no plug**
CVF25CANEX	CVF-8EXP fan, 25 foot conductive duct & conductive canister, **no plug**
CVF-15X220	CVF-8X220 fan, 15 foot conductive duct & conductive canister, **no plug**
CVF-25X220	CVF-8X220 fan, 25 foot conductive duct & conductive canister, **no plug**
	Conductive Duct Canister Only - Fits 8” CVF Fans
CVF-CND6	8" Conductive duct canister with 6 foot conductive duct, **no fan**
CVF-CND15	8" Conductive duct canister with 15 foot conductive duct, **no fan**
CVF-CND25	8" Conductive duct canister with 25 foot conductive duct, **no fan**

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.

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

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

12” Explosion-Proof Axial Fan

Item No.	Description
CVF-12EXP	115 VAC, 1 HP, 60 Hz, 1 phase, 25 foot power cord, sealed on/off switch, **no plug.** CSA C/US Certified. CE Registered. 52 lbs
CVF-12EX22	230 VAC, 1 HP, 50 Hz, ATEX certified, 7.6 meter power cord, **no plug.** 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, **no plug**
CVF12EXP25	CVF-12EXP fan, 25 foot conductive duct, conductive canister, **no plug**
CVF12X1522	CVF-12EX22 fan, 15 foot conductive duct, conductive canister, **no plug**
CVF12X2522	CVF-12EX22 fan, 25 foot conductive duct, conductive canister, **no plug**
	Conductive Duct Canister Only - Fits 12” CVF Fans
CVCAN1215	12" Conductive duct canister with 15 foot conductive duct, **no fan**
CVCAN1225	12" Conductive duct canister with 25 foot conductive duct, **no fan**

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

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
	Non-Hazardous Locations
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
	Hazardous Locations (with ground wires)
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 with 12" steel ground wire on both duct ends of conductive duct
- 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 ⅜" or 12 ⅜" diameter, with adjustable belt straps on both duct ends
- 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
	Non-Hazardous Locations
SVH-88C	8″ duct to duct connector - Orange polyethylene
SVH-1212C	12″ duct to duct connector - Orange polyethylene
	Hazardous Locations
SVH-88CND	8″ duct to duct connector with ground lugs - Conductive black polyethylene
SVH-88CGL	8″ duct to duct connector - Galvanized steel
SVH1212CND	12″ duct to duct connector with ground lugs - Conductive black polyethylene
SVH-1212CGL	12"″ 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

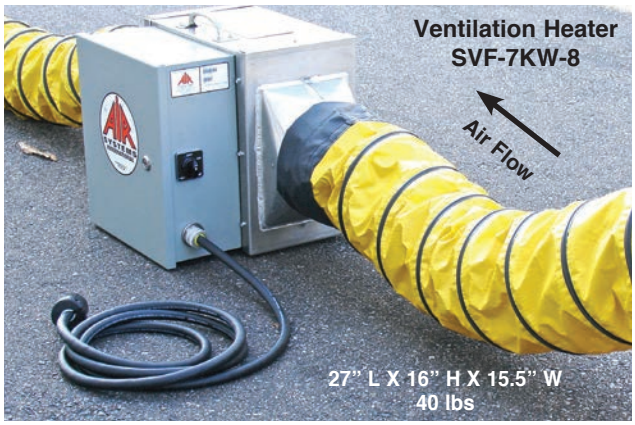
Ventilation Heater 8" Openings SVF-15KW-8

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 (optional sizes available)
- 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 - 8" Duct Flange

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

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)

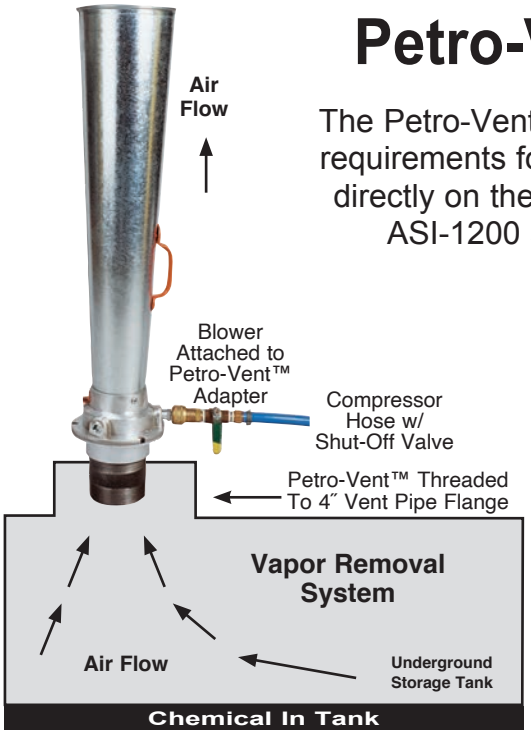
Item No.	Description
ASI-1000	Pneumatic Air Blower, 16.31" length
ASI-1200	Pneumatic Air Blower, 32.12" length
ASI-2900	Pneumatic Air Blower, 44.00" length
ASI-4100	Pneumatic Air Blower, 46.50" length

Note: Order air inlet fitting(s) separately.

MADE in the USA

For Use In Hazardous Locations

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

MADE in the USA

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

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

MADE in the USA

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

Ventilation Filter Accessories

Inlet Filter Assembly

The inlet filter is designed for Air Systems' SVB series 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
SVB-IFH9

Standard Filter
SVB-IF9ST

HEPA Filter
SVB-IF9HE

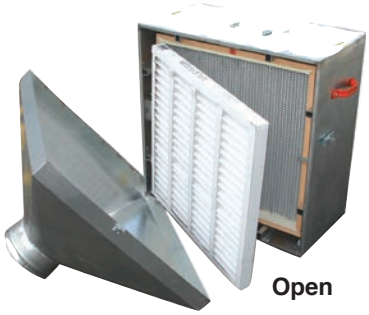
8" Inlet Filters

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

In-Line HEPA Filter Holder
FH24-8-14

HEPA Filter Holder and Accessories

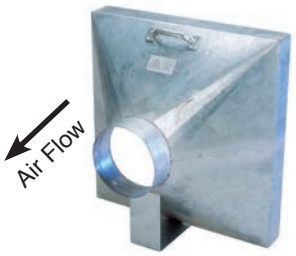
Item No.	Description
FH24-8-14	In-line steel HEPA filter holder, uses 8" duct, holds 24" x 24" x 11½" HEPA and 2" pre-filter
PFE-2412HF	HEPA Filter, 24" x 24" x 11½", each
FLTR004C	2" pleated dust prefilter, 24" x 24" x 2", case of 12
ASI-242C	2" pleated carbon odor removal pre-filter, 24˝ x 24˝ x 2˝,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

Confined Space Entry Carts

Easily Customized for Any Work Site

Confined Space Cart
Cylinders sold separately
CSC-3072P

Cart:
- Dimensions 30” W x 72” L x 48” H
- Weight: 515 lbs

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 (pass through cabinet 28" deep)
  - Other 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
	Confined Space Entry Carts
CSC-3072	Confined space cart with 10” semi-pneumatic tires. **Cylinders sold separately**.
CSC-3072P	Confined space cart with 10” pneumatic tires. **Cylinders sold separately**.
	Breathing Air Assemblies
CBA2-346NB	2 cylinder breathing air assembly - 2400 psi. **Cylinders sold separately**.
CBA2-347NB	2 cylinder breathing air assembly - 4500 psi. **Cylinders sold separately**.
	Air Cylinders
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 - see page 38

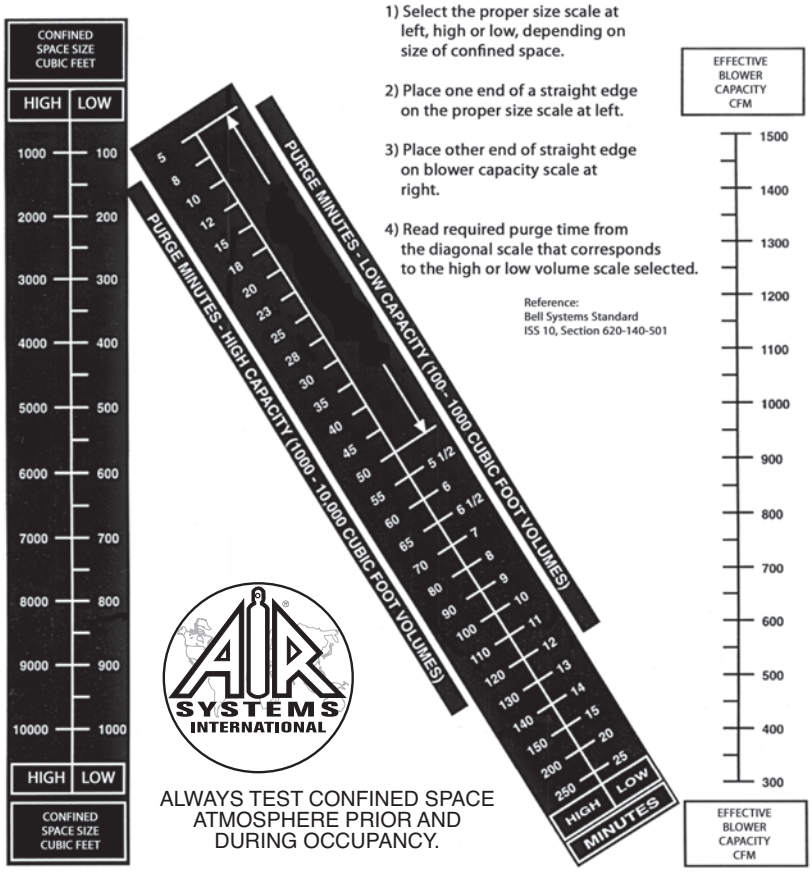
Confined Space Ventilation Safety Tips

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 90º 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.

The Conductive Saddle Vent® Ventilation System

Confined Space Entry - Do it Right the First Time!

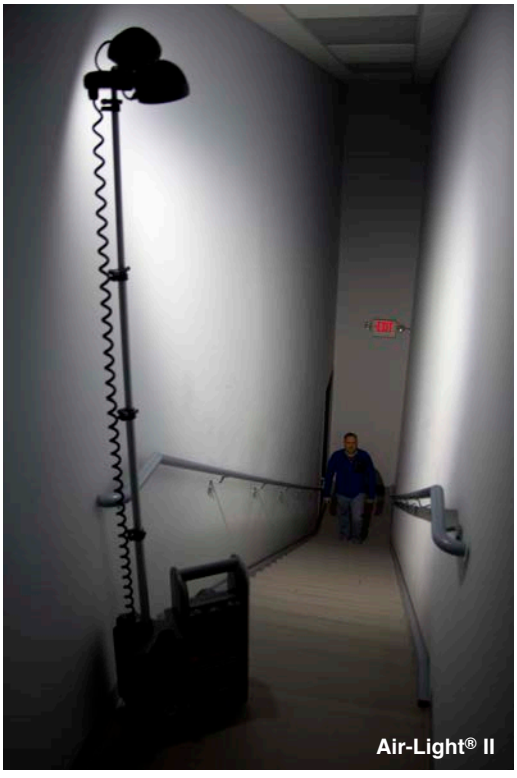
ESTIMATING APPROXIMATE PURGE TIMES



ALWAYS TEST CONFINED SPACE ATMOSPHERE PRIOR AND DURING OCCUPANCY.

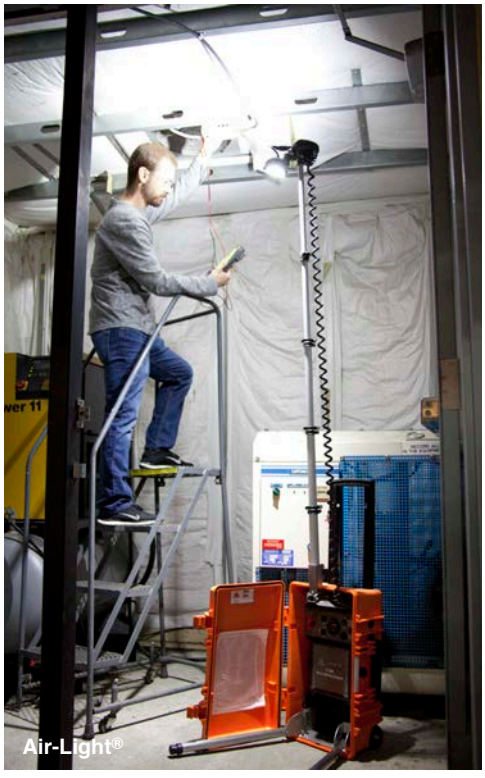
1) Proper ventilation procedures should be followed in accordance with all Federal, State and Local Laws.
2) Air quality of the confined space should be tested prior to ventilation.
3) Ventilate confined space for the minimum times recommended above and retest air quality prior to entry.
4) If toxic 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 90º 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

VIDEO ONLINE

Air-Light® Patent Information: www.airsystems.com

Fully Extends to 7.25' (87") Tall

LIFETIME WARRANTY ON LIGHT HEADS

MADE in the USA

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
- Run Times - see page 83

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

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.

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

LIFETIME WARRANTY ON LIGHT HEADS

Fully Extends to 8' (96") Tall

MADE in the USA

Air-Light® II Patent Information: 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
- Run Times - see page 83

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!

VIDEO ONLINE

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.

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		
Run Hours – 1 Head Operating	14+	Configuration not offered	7+
Run Hours – 2 Heads Operating	7+		4+
Air-Light® II			
	35 Amp Battery		
Run Hours – 1 Head Operating	25+	9+	9+
Run Hours – 2 Heads Operating	14+	5+	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**

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® 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

Fume-Air™ 750
PFE-750-8

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 $\mu g/m^3$ and other toxic welding dusts.

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

VIDEO ONLINE

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" - Package of 1
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™ 210 - Dual Speed Fume Extractor

Designed for Light to Medium Welding Applications

Air Systems' dual speed portable fume extractor, Model PFE-210, provides 105 or 210 cfm flow through a 2" x 9' hose and a 6" capture nozzle with magnetic base stand. Ideal for light to medium welding applications, such as spot or bench top welding, where large cabinet style fume extractors are not practical. The PFE-210 features a removable steel spark tray, and stainless steel filter spark screen.

Available with MERV 15 filter (PFE-210NAN) or MERV 17 HEPA filter (PFE-210HEP).

Key Details:

- Two speed vacuum motor with 16 amp overload protector
- 9' vacuum hose and 6" capture nozzle with magnetic base
- MERV 15 (Nano) or MERV 17 (HEPA) Filter Cartridge
- Retractable handle & rear wheels for easy transportation
- Magnetic base, with on/off switch, for secure nozzle placement
- Filter service indicator light for when to replace filter
- ***Minimum Speed***
  - 105 cfm flow rate, 68 dBA noise level at 5 feet
- ***Maximum Speed***
  - 210 cfm flow rate, 77 dBA noise level at 5 feet

Dimensions: 35.5" L x 18.5" H x 16.5" W

Weight: 48 lbs

Exceeds North American safety standards for weld fume capture-at-source

Fume-Air™ 210

Item No.	Description
PFE-210NAN	115 VAC, 1 HP, 9 foot hose, MERV 15 filter & spark screen
PFE-210HEP	115 VAC, 1 HP, 9 foot hose, MERV 17 (HEPA) filter & spark screen

Filters & Accessories

Item No.	Description
PFE-210-F1	Stainless steel screen - captures sparks & steel chips
PFE-210M15	MERV 15 filter replacement for PFE-210NAN
PFE-210M17	MERV 17 HEPA filter replacement for PFE-210HEP

Stainless Steel screen

MERV 15 Filter

Electric HEPA Filtered Vacuums

5 Gallon HEPA Vacuum with Tool Kit AV-5POLY

5 Gallon HEPA Vacuum AV-5

15 Gallon HEPA Vacuum AV-15

Tool Kit Included with AV-5 & AV-15 Models

Our hazardous material vacuums are equipped with a certified HEPA filter, double layer intermediate micro filter, and a totally enclosed 2-ply disposable paper bag filter. The HEPA filter is made of high strength microfiber glass paper separated by corrugated aluminum sheeting entrapped in a steel screen. All HEPA filters are rated with a minimum efficiency of 99.97% at 0.3 microns. 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.

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.**

Electric HEPA Filtered Vacuums

Item No.	Description
AV-5POLY	5 gallon polyethylene recovery tank, 1.3 HP, & tool kit
AV-5	5 gallon stainless steel recovery tank, 1.3 HP, & tool kit
AV-15	15 gallon stainless steel recovery tank, 2.3 HP, & tool kit

Vacuum Accessories

Item No.	Description
AV-15WP	Wet conversion kit for AV-15 & AV-55 models

55 Gallon HEPA Filtered Vacuums

Electric and Pneumatic

55 Gallon HEPA Vacuums

Item No.	Description
AV-55	Electric motor 55 gallon drum lid assembly. 2.3 HP, HEPA filter, 1½" hose connection, and hose - **Order drum and dolly separately**
AV-55P	Pneumatic motor 55 gallon drum lid assembly with HEPA filter, 1½" hose connection, hose - **Order drum and dolly separately**
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 HEPA Vacuum AV-55P-CND

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 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

For Use In Hazardous Locations

Tool Kit Included with AV-5P & AV-15P Models

Pneumatic HEPA Filtered Vacuums

Item No.	Description
AV-5P	5 gallon recovery, 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-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 - Pneumatic Motor:

- **Inlet Pressure:** 80 psi with ½" 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-5B	Fiber recovery bags, 5 gallon - package of 5. Fits AV-5 Series
AV-5H	HEPA filter (99.97%), 5 gallon, fits AV-5 Series - package of 1
AV-5I	Intermediate micro-fiber, 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	Recovery bags, 15 gallon - package of 5. Fits AV-15 Series
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 micro-fiber, 15 gallon, fits AV-15 & 55 Series - package of 2

Accessories

Accessories - 1½" Hose

Item No.	Description
AV-100	Curved aluminum wand, 54", fits 1½" hose
AV-101	Inlet swivel connector, fits 1½" hose
AV-103	Plastic crevice tool, 11", fits 1½" hose
AV-3RB	3" round brush, 1½" connector
AV-6200	Floor brush, 14", fits 1½" hose
AV-C1	1½" hose cuff
AV-H10	Vacuum hose 1½", 10 foot with cuffs
AV-H10CND	Conductive vacuum hose, 1½", 10 foot, with cuffs
AV-H50	Vacuum hose, 1½", 50 foot with cuffs

MADE in the USA

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 in our Repair Services Department
Email: 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

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

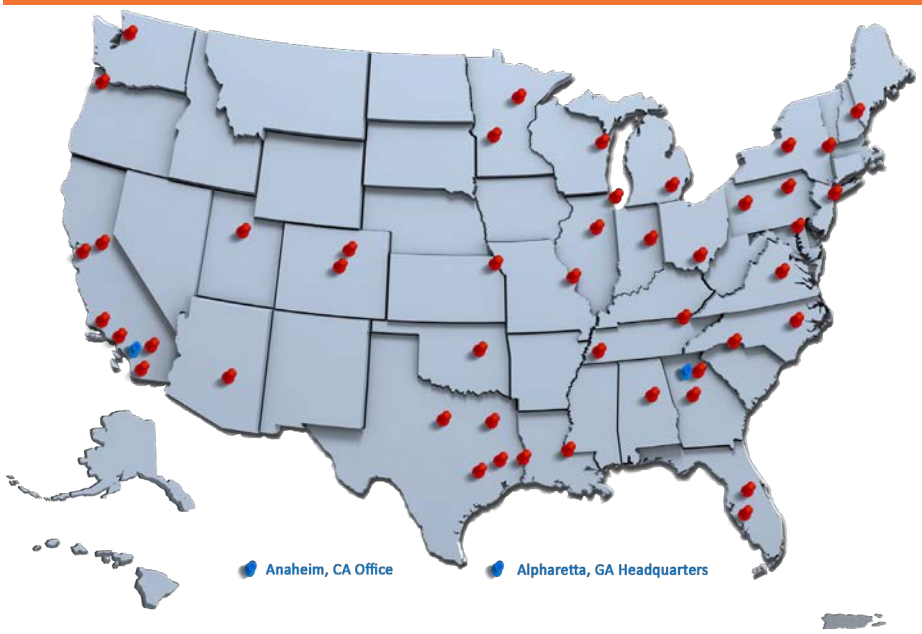
Buyer shall not use the name, pictures, logo, or other marks of Air Systems, or any abbreviation thereof in any manner, including, but not limited to, advertising, trade display, or public statement, or for any commercial purpose without the prior written consent of Air Systems, which consent may be 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.

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

Factory Representatives - United States



OneSolution
Phone: 1 (866) 352-1947
info@onesolutionteam.com
www.onesolutionteam.com

Factory Representatives - Canada

Pacesetter Sales & Associates
Head office: Calgary, AB
Phone: 1 (403) 618-3002
cdalziel@pacesettersales.com
www.pacesettersales.com

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