

2018 Master Catalog



Innovative Safety Products

Breathing Air Filtration
Breathing Air Compressors
Breathing Air Carts & Trailers
Confined Space Ventilation
Fire and Rescue Air Products
Environmental Control
Welding Fume Extractors
Portable Area Lighting

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.



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Customer Commitment For 30+ Years

Air Systems International is committed to our customers' needs and special job requirements. We have always taken great pride in being responsive to the safety and health concerns of our equipment users.

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

Table of Contents

Grade-D Breathing Air Filtration

Breathing Air Basics	1-3
Carbon Monoxide (CO) / Oxygen (O ₂) Monitors	4
Airline Monitor Specifications	4
Breather Box® Portable Systems	5-6
Panel Mounted Grade-D Breathing Air Filtration	7-8
Blast-Air™ Cart	9-10
Portable CO Monitors.....	11
Panel Mounted CO Monitors	12
Auto-Air™ Breather Box®	13-14
Auto-Air™ Breather Box® Cart.....	15-16
Remote Air Manifolds (POA)	17-18
COOL-BOX™ Air Cooling Distribution Manifold	19
Remote Alarms.....	20
Replacement Filters	21
Airline Monitor Calibration Kits	22
Portable Pre-Filters	23
Breathing Air Hoses & Reels.....	23-24
Air Quality Testing.....	25
Compressed Air Cylinder Test Kit.....	26

Breathing Air Compressors

Ambient Air Pumps.....	27-28
Portable Compressor Systems.....	29-30
Auto-Air™ Compressor System	29
Explosion-Proof Auto-Air™ Compressor.....	30
Plant Breathing Air Compressors.....	31-32

High Pressure Breathing Air

High Pressure Fill Compressors	33
Fill Containment Stations	34
SCBA Frag Stations	34
Cascade Fill Assemblies	35
Cascade Breathing Air Assemblies.....	36
High Pressure CGA Fittings	36
LIFT-PAK™ Cylinder Transport Systems.....	37
Breathing Air Cylinder Storage Racks.....	37
Breathing Air Cylinders.....	38
AIR-KADDY™ SCBA Storage Racks.....	38
UNI-PAK™ SCBA Cylinder Systems	39
PORTA-PAK™ SCBA Cylinder Systems	40

Air Cylinder Carts

MULTI-PAK™ Small Air Cylinder Carts	41
MULTI-PAK™ Large Air Cylinder Carts	42
Ergo-Air® Carts	43-44
Breathing Air Transporter™ Air Cart.....	45-46

Custom Breathing Air Systems

Custom Low Pressure Breathing Air Systems	47
Custom High Pressure Breathing Air Systems	48

Customer Service
(800) 866-8100 or
(757) 424-3967

Fire & Rescue

Multi Air Command Kits - MACK™	49-51
Tech-Rescue™ Breathing Air Cart.....	52
MULTI-PAK™ Rescue Carts & Trailers	53
AIR-KADDY™ SCBA Storage Racks.....	54
Custom Fire and Rescue Trailers	55

Confined Space Ventilation

Blower & Fan Selection Guide	56
Axial Fan vs. Centrifugal Blower	57
Certified for Safety - Certifications	58
The Saddle Vent® Systems	59-60
Saddle Vent® and Components	61
Saddle Vent® Special Application Devices.....	62
8" Centrifugal Blowers (Non-Hazardous Location)	63-64
8" Industrial Saddle Vent® Ventilation Kits	64
8" Centrifugal Blowers (Hazardous Location)	65-66
8" Conductive Saddle Vent® Ventilation Kits.....	66
Explosion-Proof Plugs	66, 69
Ventilation Filter Accessories	67
8" Steel Axial Fans & Kits	68
10" In-Line Steel Axial Fans & Kits	69-70
8" & 12" CVF Axial Fan & Kits	71
8" CVF Explosion-Proof Axial Fan & Kits	72
Ventilation Ducting & Accessories	73
Electric Ventilation Heaters	74
Vent Flow™ Alarm	74
Venturi Blowers	75
Petro-Vent™ Tank Ventilator	76
Pneumatic Circular Jet Fans	76
Custom Centrifugal Blowers.....	77
Confined Space Entry Carts.....	78
Confined Space Ventilation Safety Tips	79
Purge Time Chart - Ventilation	79

Portable Area Lighting

Air-Light® Portable Area Lighting	80-81, 83
Air-Light® II Portable Area Lighting	80, 82-83
Light Run Time Chart	84
Portable Area Light Head Configurations.....	84

Environmental Control

Fume-Air™ 750 Welding Fume Extractor	85
Fume-Air™ 230 Welding Fume Extractor	86
Electric HEPA Vacuums.....	87
55 Gallon HEPA Vacuums	87
Pneumatic HEPA Vacuums.....	88
Vacuum Accessories.....	88

Repair Services

Repair Services	89
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Reference

Understanding Quick Connect Fittings	90
Warranty/Return Information	91
Factory Representatives	92

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Understanding Breathing Air Systems

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



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



Negative Pressure Disposable Mask Respirator

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

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

Negative Pressure Disposable Cartridge Respirator

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

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

Not approved for use in IDLH atmospheres



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

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

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

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

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

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

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

Not approved for use in IDLH atmospheres



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

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

Not approved for use in IDLH atmospheres



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

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

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

PDs with a five minute escape cylinder can be used in IDLH atmospheres

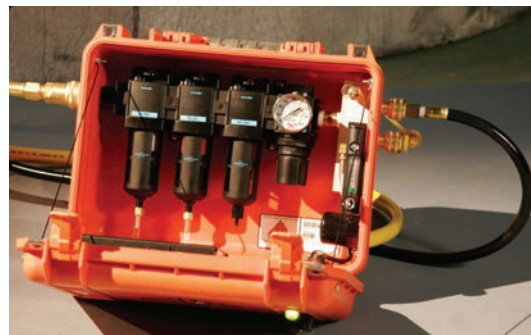


What is Grade-D Air Quality?

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/m³ maximum (<1 mg/m³ in Canada)
- Carbon Monoxide (CO): 10 ppm maximum (5 ppm in Canada)
- Carbon Dioxide (CO₂): 1000 ppm maximum (500 ppm in Canada)
- Odor: No noticeable odors, tastes, or smells
- Water Content:
 - High pressure cylinder air** must have a dew point of at least -50°F (-45.6°C) at 1 atmosphere (14.7 psi).
 - Low pressure breathing air** must have a dew point of at least 10°F (5.56°C) below the ambient temperature at 1 atmosphere (14.7 psi)
 - Canada:** 5°C below lowest temperature, 27 ppm maximum water vapor
- Total Volatile Hydrocarbons (Canada): 5 ppm maximum

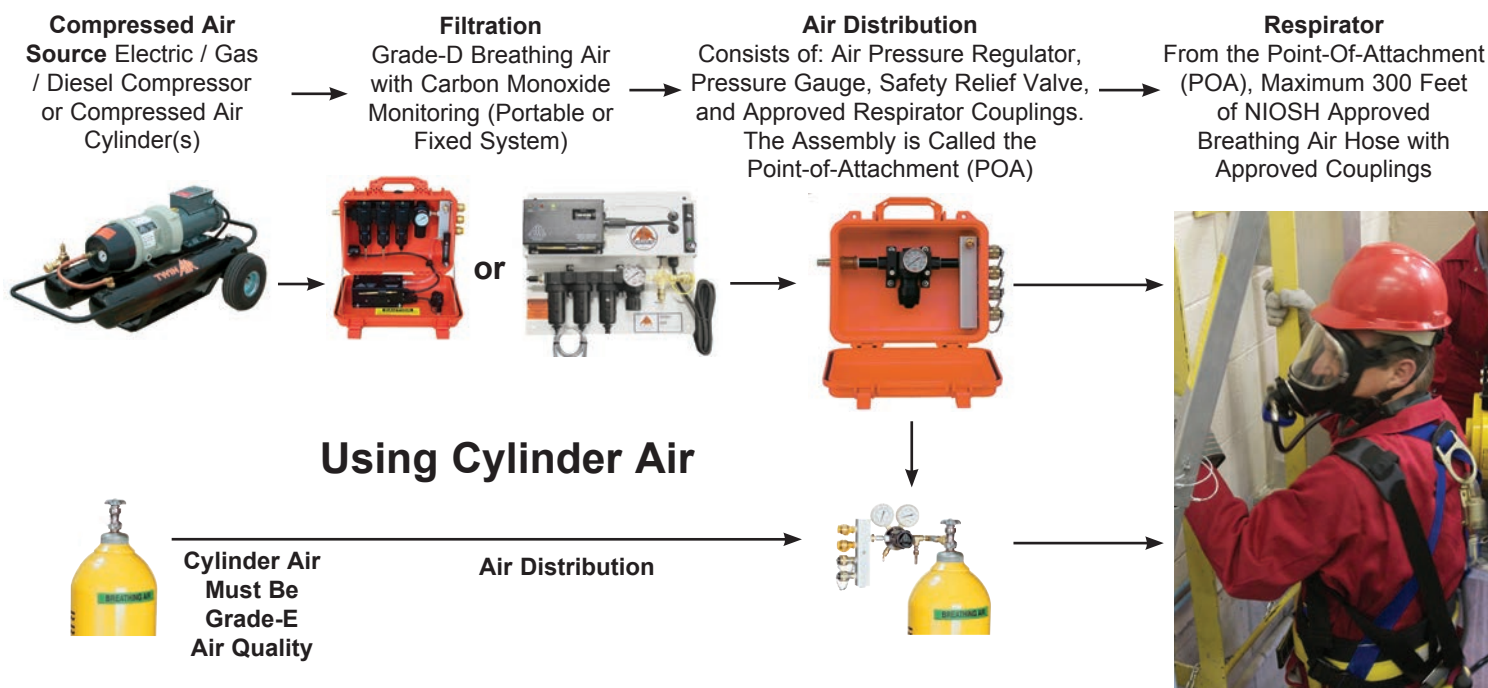


Elements of a Type-C/CE Supplied Air System

All airline respirators are Type-C or Type-CE. CE designates an airline respirator approved for abrasive blasting. Note: Type-C/CE is a NIOSH designation for an air supplied breathing air respirator system.



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



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:

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 fittings 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 (O₂) Monitors Made and Serviced in Chesapeake, Virginia



Carbon Monoxide (CO) Monitor



Carbon Monoxide (CO) and
Oxygen (O₂) Monitor



Intrinsically Safe (IS)
CO Monitor



Airline Monitor Details:

- **Calibration time:** Less than 2 minutes
- **Monitor display:** LCD 3-digit readout
- **Temperature range:** 4°F to 113°F (-20°C to 45°C)
- **Accuracy:** +/- 1% of full scale
- **Monitor range:** Carbon Monoxide (CO) 0-200 ppm, Oxygen (O₂) 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 O₂ sensor)
- **Alarm set point:** 10 ppm CO (5 ppm Canada); 19.5% O₂
- **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 O₂ 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
- CO or CO/O₂ monitors available with intrinsically safe (IS) certification



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/O₂ monitor
- 2 year warranty on sensor and entire CO monitor
- **Three standard power options:** dual 9 VDC battery, 8-16 VDC, or 115 VAC, 60 Hz (230 VAC /50 Hz optional)
- AC output supplied standard on all panel mount units (optional intrinsically safe monitors supplied with 9 VDC only)
- All portable and fixed units are available with CSA approved intrinsically safe monitor for work in hazardous locations
- Remote DC alarm jack with cover cap are standard on most portable units
- All Breather Box® filtration units are designed for use in the closed and upright position to prevent internal contamination
- Filter change indicator provided on all 3 filters on most units
- Safety visual flowmeter to verify air flow to monitor, adjustable flow rate: 50-100 cc
- Safety relief valve set at 125 psi for outlet pressure
- External mounted CO warning LED lights and audible alarm, 95 dBA
- Solid aluminum block manifold with manual drain
- All respirator couplings provided with safety lock feature
- 0-160 psi pressure gauge
 - Maximum Inlet Pressure - 150 psi



Air Systems' Air Quality Guarantee

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

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

The Breather Box[®]

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/O₂ and Intrinsically Safe Models are also available.



2 YEAR
WARRANTY
ON CO SENSOR &
MONITOR



BB50-CO

The Breather Box[®] Works with
ANY Airline Respirator Brand



Key Details:

- Carbon Monoxide (CO) Monitor Standard
- Intrinsically Safe CO or CO/O₂ 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
- 2 Automatic Drains with Discharge Tubes
- Remote Alarm Receptacle
- External Warning Lights and Alarm



BB30-CO

30 cfm Breather Box®
48 cfm flow capacity
2 couplings



BB100-CO

100 cfm Breather Box®
123 cfm flow capacity
4 couplings



BB50-COIS

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

Portable Grade-D Breathing Air Filtration with CO Monitor

Item No.	Description
BB15-CO	15 cfm Breather Box®, 48 cfm flow capacity, 1 coupling
BB30-CO	30 cfm Breather Box®, 48 cfm flow capacity, 2 couplings
BB30-CO3	30 cfm Breather Box®, 48 cfm flow capacity, 3 couplings
BB50-CO	50 cfm Breather Box®, 79 cfm flow capacity, 4 couplings
BB75-CO	75 cfm Breather Box®, 97 cfm flow capacity, 6 couplings
BB100-CO	100 cfm Breather Box®, 123 cfm flow capacity, 4 couplings
BB100-CO6	100 cfm Breather Box®, 123 cfm flow capacity, 6 couplings
BB100-CO8	100 cfm Breather Box®, 123 cfm flow capacity, 8 couplings
BB150-CO	150 cfm Breather Box®, 203 cfm flow capacity, three ½" industrial interchange couplings

Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge. See page 90 for information.

Portable Grade-D Breathing Air Filtration with CO/O₂ Monitor

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

Additional Fittings Available. Contact Customer Service



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

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



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

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



Contact Customer Service for custom options



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

Replacement Filter Kits

Item No.	Description
BB30-FK	Filter kit for BB15 & BB30 series models
BB50-FK	Filter kit for BB50 series models
BB75-FK	Filter kit for BB75 series models
BB100-FK	Filter kit for BB100 & BB150 series models

Filter Kits Contain 1 ea. "A", "C", and "D" replacement filters

CO Monitor Calibration Kits

Item No.	Description
BBK-20	CO monitor calibration kit - 20 ppm CO
BBK-10	CO monitor calibration kit - 10 ppm CO

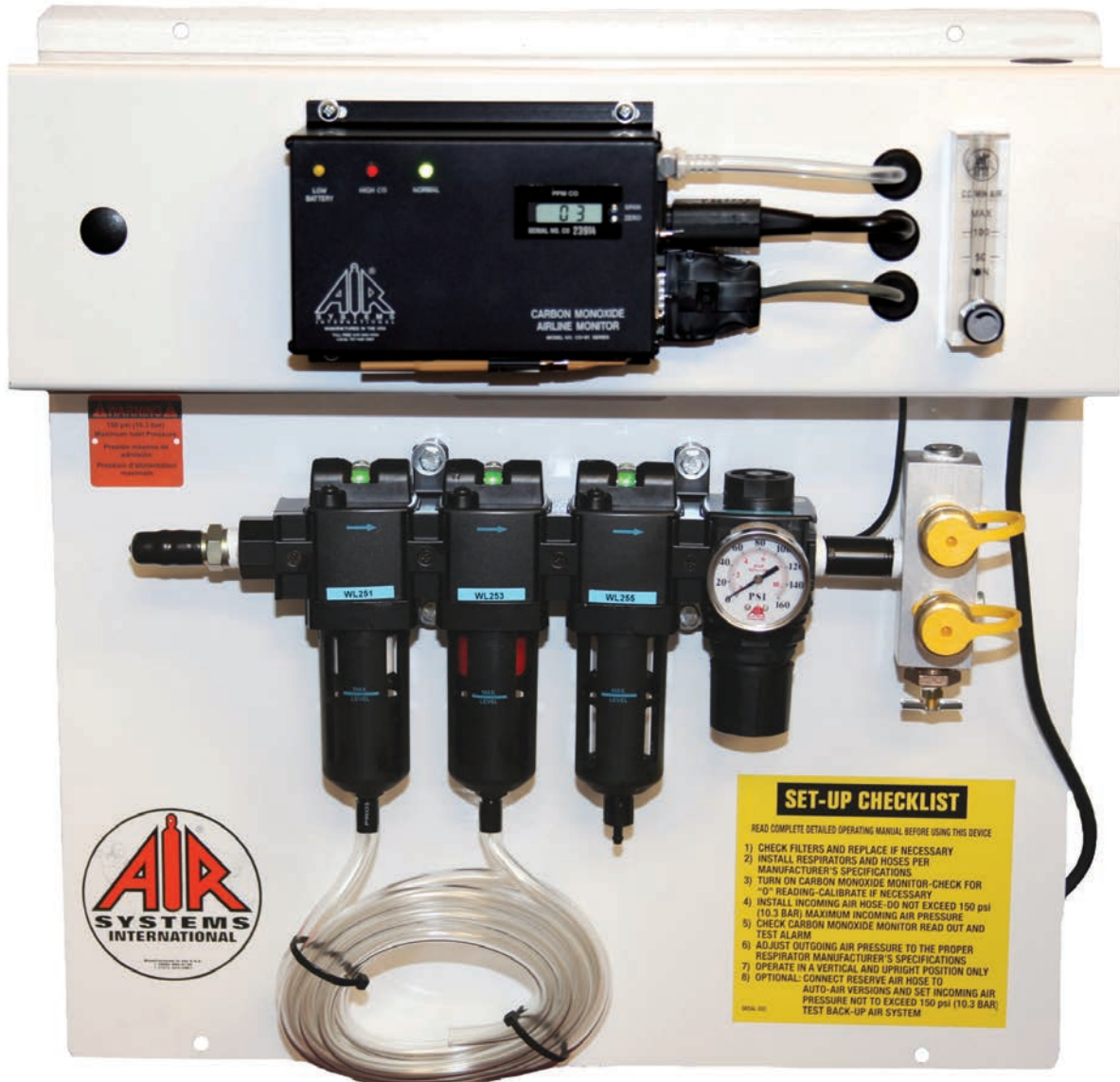
Kit details and components available on pages 21- 22



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

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/O₂ and Intrinsically Safe Models are also available.



BB30-COPM

Key Details:

- Carbon Monoxide (CO) Monitor Standard
- Three Stage Filtration (99.99% efficient at 0.01 micron particle size)
- Filter Change Indicators on All Filters
- Incoming Air Plug ½" Industrial Interchange
- 2 Automatic Drains with Discharge Tubes
- Remote Alarm Receptacle, 115 VAC Standard
- External Warning Lights and Alarm
- Steel Wall Panel, Powder Coated White
- Intrinsically Safe CO or CO/O₂ Monitors Available





BB30-COPM
30 cfm Steel Panel
48 cfm flow capacity
2 couplings



BB50-COPM
50 cfm Steel Panel
79 cfm flow capacity
4 couplings



BB250-COPM
250 cfm Steel Panel
419 cfm flow capacity
NPT Outlet

Panel Mounted Grade-D Air Filtration with CO Monitor

Item No.	Description
BB15-COPM	15 cfm Grade-D breathing air panel, 48 cfm flow capacity, 1 coupling
BB30-COPM	30 cfm Grade-D breathing air panel, 48 cfm flow capacity, 2 couplings
BB50-COPM	50 cfm Grade-D breathing air panel, 79 cfm flow capacity, 4 couplings
BB100-COPM	100 cfm Grade-D breathing air panel, 123 cfm flow capacity, 4 couplings, 6 or 8 couplings available for additional charge
BB150-COPM	150 cfm Grade-D breathing air panel, 203 cfm flow capacity, NPT outlet *
BB250-COPM	250 cfm Grade-D breathing air panel, 277 cfm flow capacity, NPT outlet *
BB700-COPM	700 cfm Grade-D breathing air panel, 710 cfm flow capacity, NPT outlet *

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

Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge. See page 90 for information.

Additional Fittings Available. Contact Customer Service

Panel Mounted Grade-D Air Filtration with CO/O₂ Monitor

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

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

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



Explosion-Proof Versions Also Available



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

Replacement Filter Kits

Item No.	Description
BB30-FK	Filter kit for BB15 & BB30 series models
BB50-FK	Filter kit for BB50 series models
BB75-FK	Filter kit for BB75 series models
BB100-FK	Filter kit for BB100 & 150 series models

Filter Kits Contain 1 ea. "A", "C", and "D" replacement filters

CO Monitor Calibration Kits

Item No.	Description
BBK-20	CO monitor calibration kit - 20 ppm CO
BBK-10	CO monitor calibration kit - 10 ppm CO

Kit details and components available on pages 21- 22



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

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 maintenance downtime and costs. Air is supplied to the cart from mobile or fixed air compressors.



BA-100

Key Details:

- Carbon Monoxide (CO) Monitor Standard
- Intrinsically Safe CO or CO/O₂ 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)
- 2 Rear Pre-Filters with Auto-Drains
- Remote Alarm Jack
- External Warning Lights and Alarm
- Steel Cart with Pneumatic Tires



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



BA-50
50 cfm Breather Box®
79 cfm flow capacity
4 coupling



BA-100
100 cfm Breather Box®
123 cfm flow capacity
4 coupling



The Blast-Air™ Cart Featuring The Breather Box®

Item No.	Description
BA-30	30 cfm Blast-Air™ Cart, 48 cfm flow capacity, 2 couplings
BA-50	50 cfm Blast-Air™ Cart, 79 cfm flow capacity, 4 couplings
BA-100	100 cfm Blast-Air™ Cart, 123 cfm flow capacity, 4 couplings
BA-100-6	100 cfm Blast-Air™ Cart, 123 cfm flow capacity, 6 couplings
BA-100-8	100 cfm Blast-Air™ Cart, 123 cfm flow capacity, 8 couplings
BA-1CAA	Cart only with 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
BB100-FK	Filter kit for BB100 series models - 1 ea. "A", "C", and "D" replacement filters
BB100-A	Replacement Pre-filter for Blast-Air™ Cart (each) - requires 2 filters

Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge. See page 90 for information.

Additional Fittings Available. Contact Customer Service

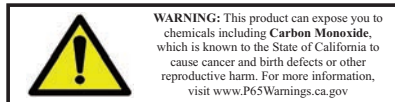
Optional CSA approved intrinsically safe CO or CO/O₂ Monitor Available

Cart Dims: 40" H x 20" W x 19" D
Cart Weight: 42 Lbs.

CO Monitor Calibration Kits

Item No.	Description
BBK-20	CO monitor calibration kit - 20 ppm CO
BBK-10	CO monitor calibration kit - 10 ppm CO

Kit details and components available on pages 21- 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 content. 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/O₂ levels.

Portable CO and CO/O₂ Monitors

Item No.	Description
CO91-14LAC CO91-14HAC	Portable CO monitor, 150 psi maximum inlet pressure, and 5' hose Portable CO monitor, rated for 5000 psi maximum 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

Applications

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

Portable CO Monitors - Intrinsically Safe

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.

Key Details:

- Includes 1/4" industrial interchange coupling supplied on 5' hose
- Use in the closed position
- 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



Panel Mounted Carbon Monoxide (CO) Monitors

for Fixed System Continuous Sampling of CO and/or CO/O₂ levels



The carbon monoxide (CO) airline monitor panel can be ordered to retrofit any existing Grade-D breathing air system, CO and Oxygen (O₂) 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.**

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
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
CO2-91PM	Panel mounted carbon monoxide (CO) and oxygen (O ₂) monitor, simultaneously monitors for high CO and low O ₂ levels in breathing air with independent digital readouts, audible alarm, visual lights, flow meter, quick connect calibration fitting, LCD display. Intrinsically safe version available.



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

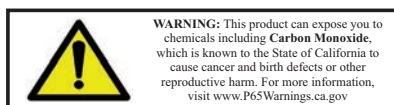
Also Available

- Intrinsically Safe Versions
- Remote Audible and Visual Alarms
- CO/O₂ Monitor

CO Monitor Calibration Kit - Small Cylinders

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

Kit details and kits / refills available on page 22

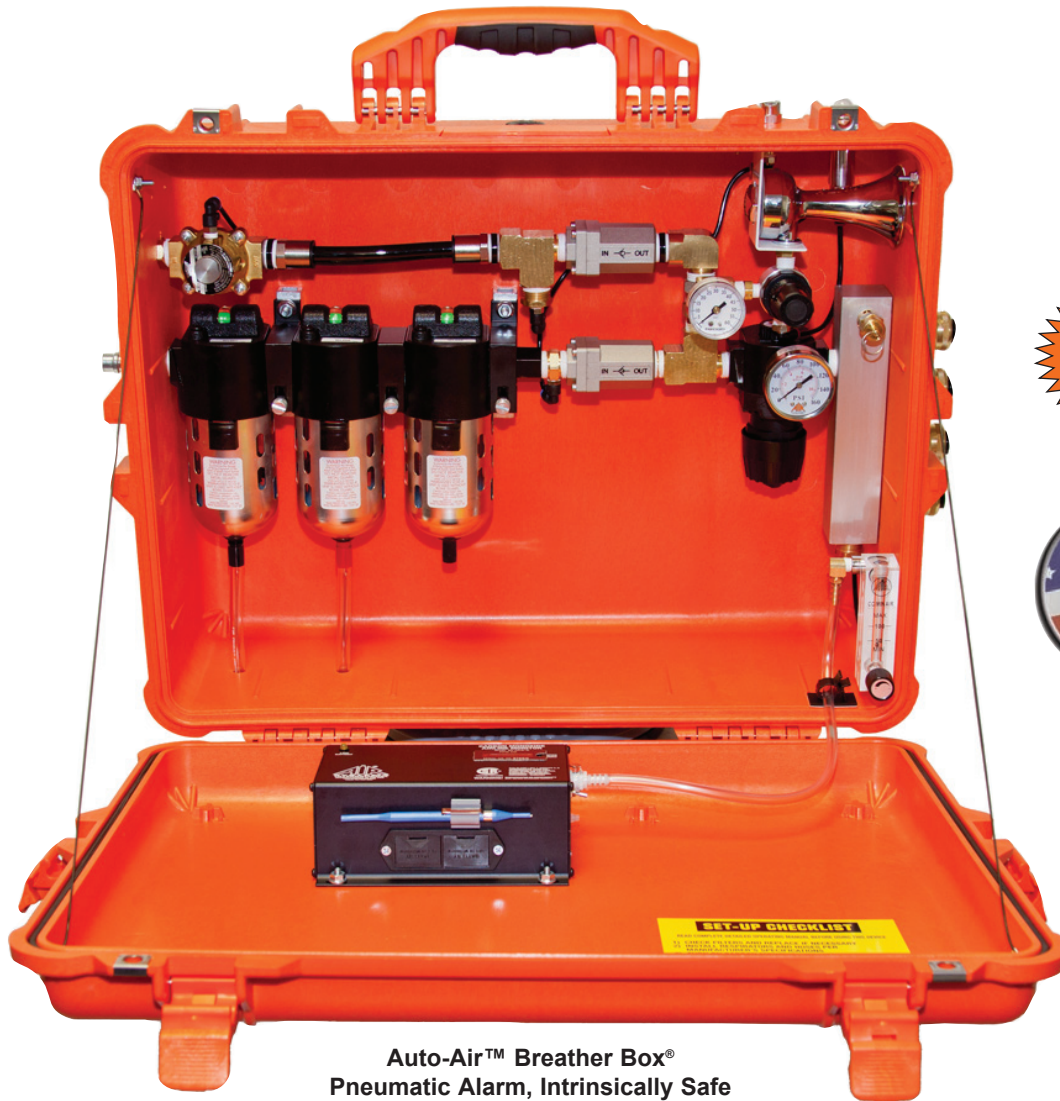


BBK-20

The Auto-Air™ Breather Box®

Fully Automatic Reserve Air System for Work Requiring Backup Air

The Auto-Air™ filtration system was developed to provide Grade-D breathing air with full automatic reserve air for use in IDHL 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). Local and optional remote alarms signal to the workers the primary air system has failed and has switched to the back-up air system.



Auto-Air™ Breather Box®
Pneumatic Alarm, Intrinsically Safe
BB50-COAAP

Key Details:

- Primary Air Line, ½" Inlet Fitting
- Reserve Air Line, ¼" Inlet Fitting
- Filter Change Indicators on All Filters
- 2 Automatic Drains with Discharge Tubes
- Carbon Monoxide (CO) Monitor
- Remote Alarm Jack Receptacle
- 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®
Electric CO Monitor
BB50-COAA**



Primary
Air Line
Reserve
Air Line



Auto-Air™ Breather Box® - Electric

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

Also Available

- CO/O₂ Monitor
- Intrinsically Safe Versions

Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge. See page 90 for information.

Auto-Air™ Breather Box® - Pneumatic

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 and are 9 VDC operation only.

Additional Fittings Available. Contact Customer Service

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



Replacement Filter Kits

Item No.	Description
BB30-FK	Filter kit for BB15 & BB30 series models
BB50-FK	Filter kit for BB50 series models
BB100-FK	Filter kit for BB100 series models

Filter Kits Contain 1 ea. "A", "C", and "D" replacement filters

CO Monitor Calibration Kits

Item No.	Description
BBK-20	CO monitor calibration kit - 20 ppm CO
BBK-10	CO monitor calibration kit - 10 ppm CO

Kit details and components available on pages 21- 22



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

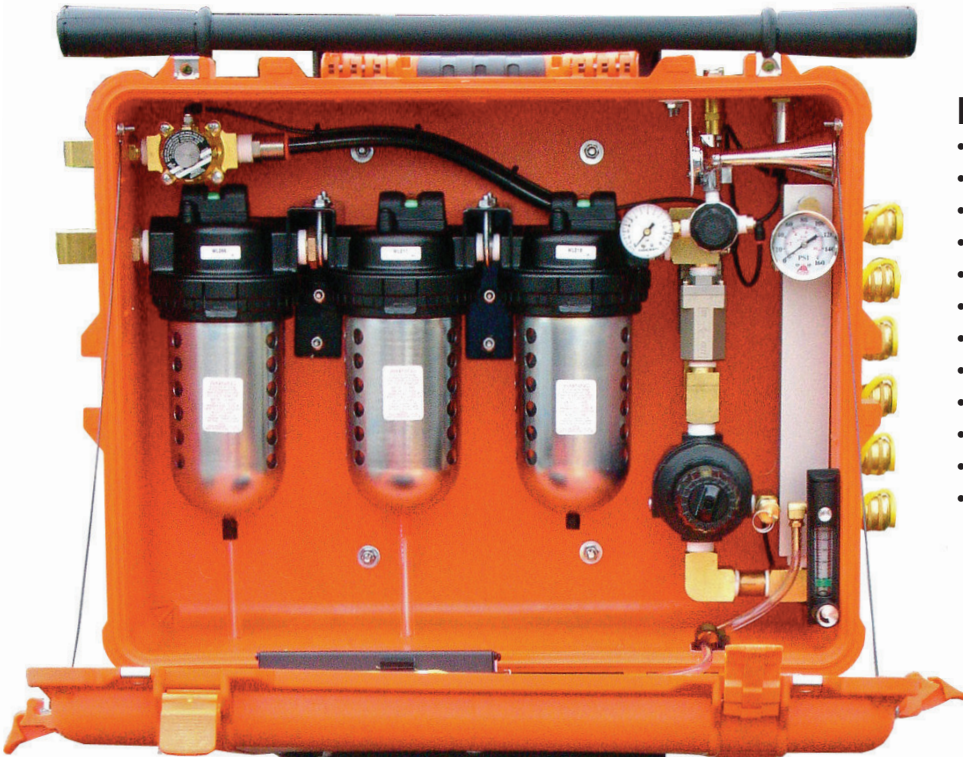


NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments.

Our Auto-Air™ feature does not replace the NIOSH requirement, however, 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.

The Auto-Air™ Cart

Cart Mounted Automatic Reserve Air System for Work Requiring Backup Air



Key Details:

- Carbon Monoxide (CO) Monitor Standard
- CO/O₂ Monitor Available for Additional Charge
- Primary Air Line, 1/2" Inlet Fitting
- Reserve Air Line, 1/4" Inlet Fitting
- Filter Change Indicators on All Filters
- Remote Alarm Receptacle
- Adjustable Pneumatic Alarm, 90 to 120 dBA
- Safety Relief Valve
- Visual Air Flow Meter to Monitor
- Storage Box with Latch
- Steel Cart
- 16" Pneumatic Tires



Pneumatic
Auto-Air™ Cart
B10023HTAP

Holds Large Cylinders
Cylinders Ordered Separately



Electric
Auto-Air™ Cart
BB50-HTAA

SCBA Cylinders
Ordered Separately

The Auto-Air™ Cart

The Auto-Air™ Cart provides a systems approach to breathing air filtration. The cart contains an Auto-Air™ Breather Box® Grade-D filtration unit, with either a pneumatic or electric reserve air system, and twin air cylinder storage. Choose a cart size based on the desired amount of reserve air needed to allow workers to safely egress the work area. **Carts can operate with 2400 to 5000 psi cylinders.**

Applications

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



Small Cylinder Carts (up to 4500 PSI)

Holds Two 60 or 87 cf Air Cylinders

Large Cylinder Carts (up to 5000 PSI)

Holds Two 300, 444 or 472 cf Air Cylinders

Order Cylinders Separately

Auto-Air™ Cart - Electronic

Item No.	Description
BB30-HTAA	30 cfm Auto-Air™ Small Cart, 115VAC, 48 cfm flow capacity, 2 couplings
BB50-HTAA	50 cfm Auto-Air™ Small Cart, 115VAC, 79 cfm flow capacity, 4 couplings
BB100HTAA	100 cfm Auto-Air™ Small Cart, 115VAC, 123 cfm flow capacity, 4 couplings
BB100-23AA	100 cfm Auto-Air™ Large Cart, 115VAC, 123 cfm flow capacity, 4 couplings

Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge. See page 90 for information.

Intrinsically Safe Auto-Air™ Cart - Pneumatic

Item No.	Description
BB30-HTAAP	30 cfm Intrinsically Safe Auto-Air™ Small Cart, 48 cfm flow capacity, 2 couplings
BB50-HTAAP	50 cfm Intrinsically Safe Auto-Air™ Small Cart, 79 cfm flow capacity, 4 couplings
BB100HTAAP	100 cfm Intrinsically Safe Auto-Air™ Small Cart, 123 cfm flow capacity, 4 couplings
B10023HTAP	100 cfm Intrinsically Safe Auto-Air™ Large Cart, 123 cfm flow capacity, 4 couplings

Additional Fittings Available. Contact Customer Service

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

Additional outlets available



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

Custom modifications available to meet the most demanding customer requirements. Contact Customer Service for additional details. Engineering drawings and specifications will be provided for your application.

Replacement Filter Kits

Item No.	Description
BB30-FK	Filter kit for BB15 & BB30 series models
BB50-FK	Filter kit for BB50 series models
BB100-FK	Filter kit for BB100 series models

Filter Kits Contain 1 ea. "A", "C", and "D" replacement filters

CO Monitor Calibration Kits

Item No.	Description
BBK-20	CO monitor Calibration kit - 20 ppm CO
BBK-10	CO monitor Calibration kit - 10 ppm CO

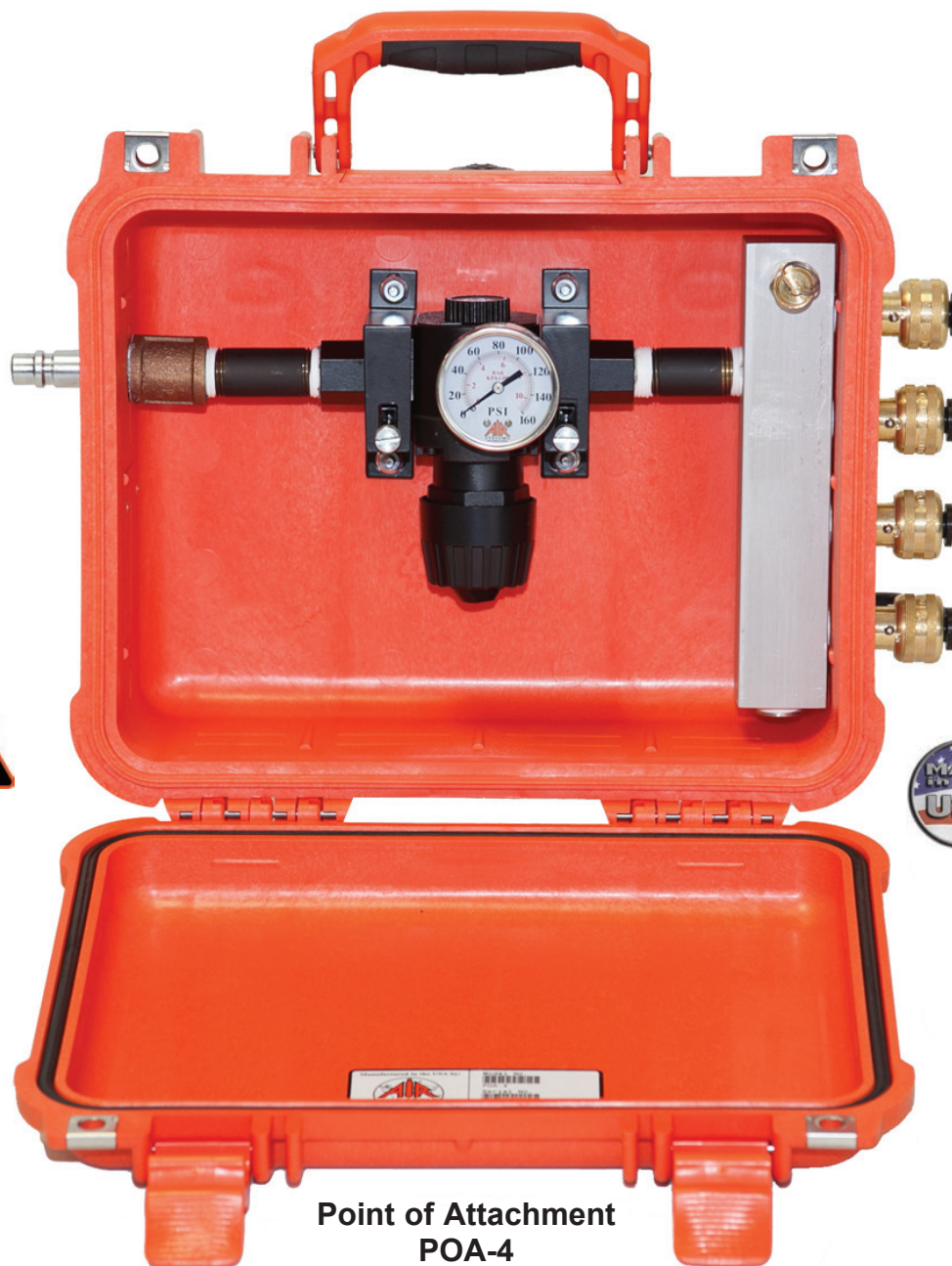
Kit details and components available on pages 21- 22

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



Remote Air Manifolds

Also Known As a Point of Attachment (POA)



Point of Attachment
POA-4

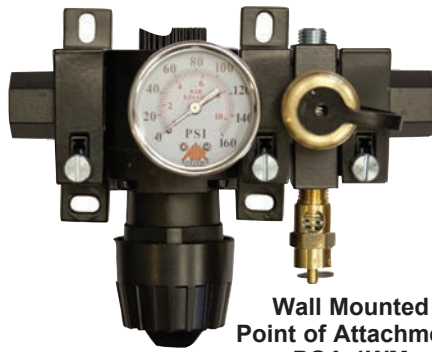
Key Details:

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





**Portable Point of Attachment
POA-5RF**



**Wall Mounted
Point of Attachment
POA-1WM**



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

A POA consists of a regulator, pressure gauge, safety relief valve, and fitting congruency necessary for proper respirator operation. A POA box can be located any distance from the Grade-D filtration Breather Box[®] or filtration panel. The remote air manifold (POA) assembly becomes the NIOSH attachment point for the respirator(s) and is now limited to a maximum 300 feet of breathing air hose at the air outlet fitting on the remote POA box. POA boxes may be taken into wet and/or hazardous locations. **All our remote air manifolds meet NIOSH requirements of the 87-116 (1989) document for point of attachment.**

Portable Point of Attachments (POA)

Item No.	Description
POA-2	Standard POA Box - 2 couplings
POA-4	Standard POA Box - 4 couplings
POA-4R	POA Box with 4 independent regulators & couplings
POA-4F	POA Box with final particulate filter & 4 couplings
POA-5RF	POA Box with final particulate filter and 5 independent regulators
POA-X	Custom POA Box - Contact Customer Service for ordering details
BBM-4LF	"NRC" POA Box, final particulate filter, 4 independent regulators, low pressure warning alarm and lights (a clear gauge viewing window is optional) - Not Approved for Hazardous Locations

Optional Custom Designed 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

Please specify ¼" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge.

Wall Mounted Point of Attachments (POA)

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
POA-XWM	Custom wall mounted POA manifold - Contact Customer Service for ordering details



Grade-D Air
Filtration
Breather Box[®]



Point of
Attachment (POA)



Airline
Respirator



Typical Point of Attachment (POA) Set-up

THE COOL-BOX™ Portable Cooling Air Distribution Manifold



Heat Stress Prevention

Key Details:

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



Just add ice for immediate respirator air cooling!

Applications

- Painting or Blasting
- Confined Space
- Utility Companies
- Maintenance
- Construction
- Production
- Level A 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) included

Remote Alarms

Remote alarms act as a valuable warning device for remote workers and allows for a safe egress if a system fault alarm occurs.

Remote alarms are designed to duplicate local alarms found on the primary equipment, such as the Breather Box®, to signal workers in a remote location of an alarm condition.

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



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

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



ALMSTH120

Remote Alarms for Panel Mounted Filtration Models

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



EXALM-HL

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

Contact Customer Service for matching alarm and Breather Box® model

Additional alarm cable lengths available contact Customer Service

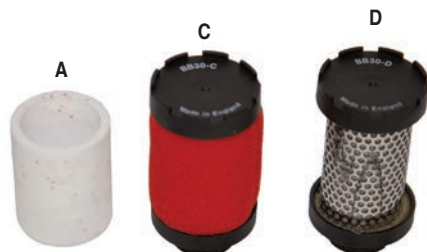
When ordering remote alarms, please include the serial number of the Breather Box® or Panel to verify the alarm compatibility.

Replacement Filters

for Breather Boxes® and Filtration Panels

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

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

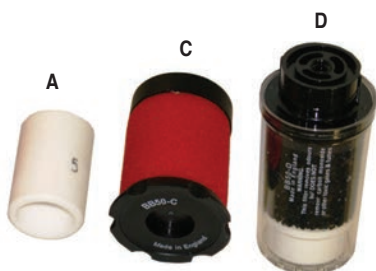


BB15 & BB30 Series Filters

BB15 & BB30 Series

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

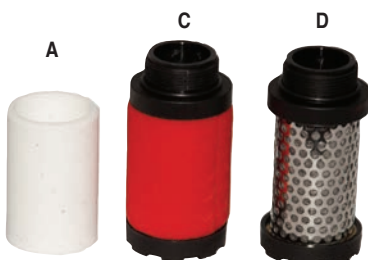
For BB15 Series, consult Customer Service for correct filter part number. Please provide serial number and manufacturing date when contacting Customer Service.



BB50 Series Filters

BB50 Series

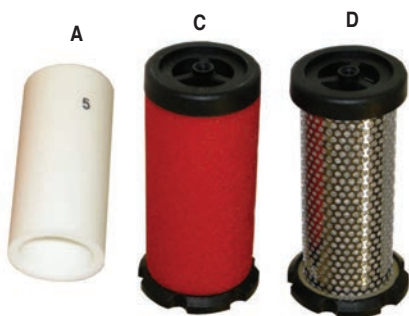
Item No.	Description
BB50-FK	Filter kit for BB50 series models Contains 1 ea. "A", "C", and "D" replacement filters
BB50-A	Particulate filter - Stage 1
BB50-C	Coalescing filter - Stage 2
BB50-D	Charcoal filter - Stage 3



BB75 Series Filters

BB75 Series

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



BB100 Series Filters

BB100 & BB150 Series

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

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



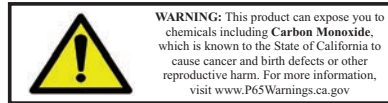
Monitor Calibration Kits, Accessories & Sensors



BBK-20

CO Monitor Calibration Kit - Small Cylinders

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



BBK-20103

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

Replacement Cylinders and Regulators

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



BBG-20



CO-91NS



CO2-O2

Replacement Sensors for Airline Monitors

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



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

How Often Should I Calibrate My Airline Monitor?

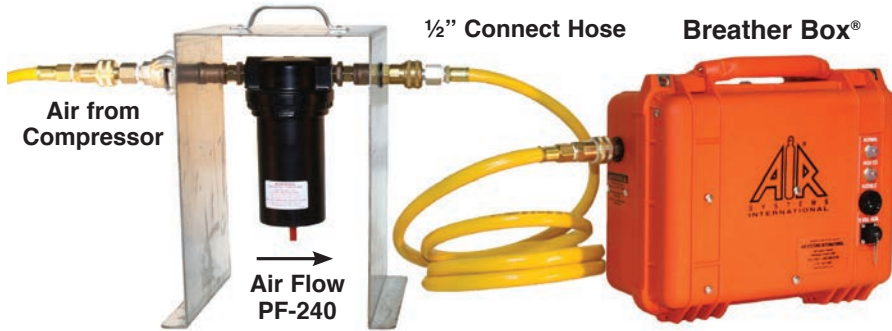
Air Systems recommends calibrating our CO-91 Series breathing air monitors monthly. If monthly calibrations are not followed, the monitor should be recalibrated at least every six months from the last calibration prior to use.

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.

Portable Pre-Filter

The 300 cfm pre-filter with auto-drain is designed to remove large amounts of oil and water discharged from a compressor before it enters the Breather Box®. The pre-filter will extend the Breather Box® filter life, reduce maintenance downtime and costs. Ideal for use in humid climates.



Specifications

- High capacity 300 cfm bulk filtration and moisture removal - 200 psi rated with metal bowl
- Automatic drain assembly
- Galvanized steel frame with carry handle
- Supplied with 1/2" Chicago fitting on inlet, 1/2" Industrial Interchange socket on outlet
- Use after compressor and before Grade-D Air Filtration Breather Box®

Portable Pre-Filter

Item No.	Description
PF-240	High capacity portable compressor prefilter with stand, 300 cfm capacity, 1/2" Chicago inlet, and 1/2" 5000 series Hansen socket outlet, with auto drain
BB100-A	Replacement particulate filter for PF-240

Breathing Air Hose & Accessories



3/8" Breathing Air Hose - Black

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



1/2" Breathing Air Hose - Yellow

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

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



Polyethylene Hose Cover

3/4" Breathing Air Hose - Red

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

Contact Customer Service for a quote.

Polyethylene Hose Cover

Item No.	Description
LF2H	Polyethylene hose cover - fits 1/2" or 3/8" hose - 1125' roll



Whip Check

Whip Check Air Hose Safety Cable

Item No.	Description
ASWHIPLINE	Hose to Hose - fits OD 1/2" to 1 1/4" hose (20" length)
ASWHIPLN10	Hose to Hose - fits OD 1" to 2 1/2" hose (28" length)
ASWHIPLN15	Hose to Hose - fits OD 1 1/2" to 3" hose (38" length)
ASWHIPTL20	Hose to Tool - fits OD 1/2" to 1 1/4" hose (20" length)
ASWHIPTL38	Hose to Tool - fits OD 1 1/2" to 3" hose (38" length)

Breathing Air Hose Reels



HR-100M
Manual Reel



HR-500MC
Manual Cart



HR-50
Automatic Reel

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

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

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

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

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

3/8" Automatic Rewind Reels with POA

Item No.	Description
HR-50POA	NIOSH point-of-attachment reel, holds 50' of 3/8" ID breathing air hose, installed regulator, pressure gauge, and safety relief valve. Use with NIOSH approved respirator hose. Contact Customer Service for other lengths of hose

Reel colors may vary depending on reel type ordered.

1/4" Automatic Rewind Hose Reels - High Pressure

Item No.	Description
HPR-50	Auto hose reel, 5000 psi, holds 50 foot of 1/4" ID high pressure air hose
HPR-350	Auto hose reel, 6000 psi, holds 50 foot of 1/4" ID high pressure air hose
HPR-100	Auto hose reel, 5000 psi, holds 100 foot of 1/4" ID high pressure air hose
HPR-1006K	Auto hose reel, 6000 psi, holds 100 foot of 1/4" ID high pressure air hose

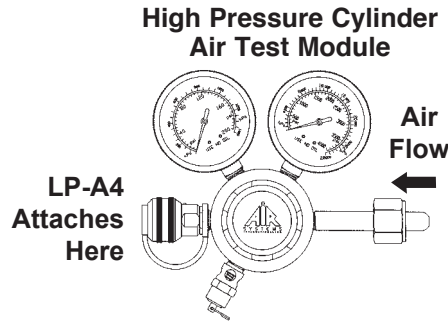
All reels can be supplied with breathing air hose installed. Hose reels can be mounted on roller carts. Consult Customer Service for additional details.

Air Quality Test Kit

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



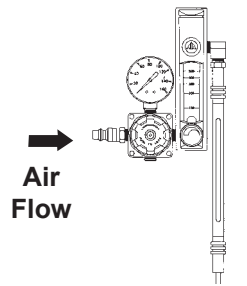
**Air Quality Test Kit
LP/HPA445K**



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

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

Low Pressure Compressor Air Quality Test Module



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

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

Please specify fitting.

100 psi Maximum Pressure



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

Complete Test Kits

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

Test Modules

Item No.	Description
LP-47PF	Total particulate test module, maximum 20 psi - use with HP-A4 or HP-A445 - order pre-weighed filter (MW-47) separately
MW-47	Pre-weighed 47mm 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	47mm filter holder only

Replacement Tubes for Kits and Modules

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



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

Compressed Air Cylinder Test Kit

The AQTCOO2KIT Cylinder Test Kit was designed to rapidly test rented cylinder's blended breathing air quality. The Test Kit provides an immediate and accurate Oxygen (O₂) 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.



AQTCOO2KIT

Visual Air
Flowmeter
to Monitor

High
Pressure
Connect
Hose

Always Test Air Quality Prior to Use



The CO/O₂ Cylinder Test Kit contains all the components to test blended breathing air cylinders.

CO/O₂ Cylinder Test Kit

Item No.	Description
AQTCOO2KIT	Test Kit - CO/O ₂ monitor, 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™ Purchase or Rental

Item No.	Description
ACK-97	AirCheck™ Kit to collect air sample. Specify pressure adapter required for testing SCBA, SCUBA, or low pressure. 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

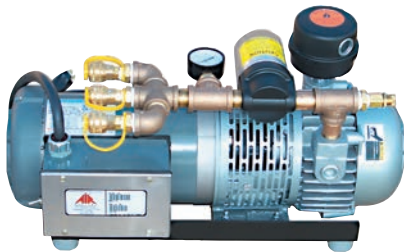
For proper air pump operation: Always choose a constant flow respirator designed and approved to operate with an ambient air pump, **under 15 psi**. Specify the approved respirator coupling size when ordering a particular model pump that matches the respirator hose selected.

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



2 Worker - BAC-10

- 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, 100-115/208-230VAC, 9.2/4.8 amps, 50/60 Hz
- Weight: 55 lbs.



3 Worker - BAC-17

- 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, 115/208-230VAC, 14.4/7.2 amps, 60 Hz
- Optional HEPA intake filter, order separately (BAC-20HF-1)
- Weight: 90 lbs.



4 Worker - BAC-20

- 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, 115/208-230VAC, 18.9/9.4 amps, 60 Hz
- Optional HEPA intake filter, order separately (BAC-20HF-1)
- Weight: 103 lbs.

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

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

Low Pressure Ambient Air Pumps

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



Replacement Filters

Item No.	Description
BAC-393-1	Pump compressor filter fits all BAC models (each)
BAC-393-4	Pump compressor 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, BAC-20 and BAC-20P (each)

All ambient air pumps require two (2) replacement filters. Order the pump compressor filter and specific air intake filter.

The Portable Cool-Air™ Pump

Twin Air™ Tank Mounted Ambient Air Pumps

BAC-203TCO
Portable Cool-Air™ Pump



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



OSHA REQUIRES CO MONITORING

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

The Portable Cool-Air™ Pump

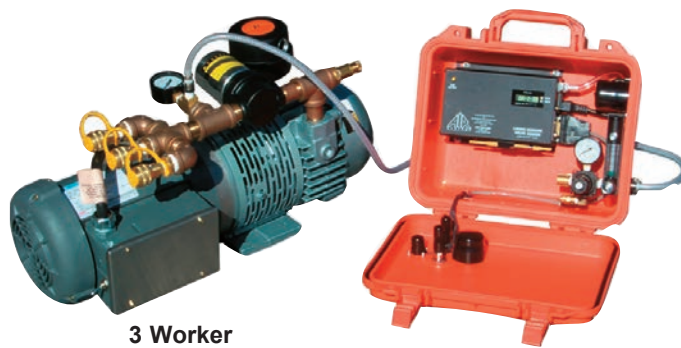
Item No.	Description
	With CO Monitor
BAC-103TCO	BAC-10 compressor on Twin-Air™ tanks, up to 2 workers
BAC-173TCO	BAC-17 compressor on Twin-Air™ tanks, up to 3 workers
BAC-203TCO	BAC-20 compressor on Twin-Air™ tanks, up to 4 workers
	No CO Monitor
BAC-10-3T	BAC-10 compressor on Twin-Air™ tanks, up to 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 not designed for use with pressure demand respirators or Vortex cooling tubes due to low output pressure.

Portable CO and CO/O₂ 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



3 Worker
Ambient Air Pump
BAC-17

Portable CO Monitor
CO91-14LAC

COMP-3™ Breathing Air Compressor System

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

Key Details for TA-3 Compressor:

- Rotary vane air compressor
- Pressure range to 110 psi output
- 2 HP electric motor, 1750 rpm continuous duty – thermally protected
- 115/230 VAC, 1-phase, 60Hz, 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
- Weight: 150 lbs.
- Breather Box® Grade-D filtration package supplied with COMP-3



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

COMP-3™ System & Components

Item No.	Description
COMP-3	TA-3 Twin-Air™ Compressor, 115/230 VAC, 1 phase, 2 HP, 20 amp, ½" x 10' connect hose, and BB30-CO3 Breather Box®, 3 respirator fittings
TA-3	Twin-Air™ Compressor, 115/230 VAC, 1 phase, 60 Hz, 2 HP, 20 amp. 1-3 workers
TA-3G	Gasoline compressor, 1-2 worker with remote intake snorkel
TA-3EXP	Twin-Air™ Compressor, 2 HP explosion-proof electric, 230/3 VAC, no plug, use wired per NEC requirements. Explosion-proof plugs available on page 66.
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, and primary / secondary hoses. An optional 60 or 87 cf cylinder can be installed on the compressor frame to provide additional egress air. The COMP-3EA™ system is designed for pressure demand respirators only.

COMP-3EA™ Compressor & Components

Item No.	Description
COMP-3EA	TA-3EA compressor, ½" x 10' hose, ¾" x 10' hose, high pressure regulator, and BB30-COAA Breather Box®
TA-3EA	TA-3 Twin-Air™ Compressor with adjustable high pressure (5000 psi) regulator for attachment to a CGA-346 or CGA-347 cylinder and cylinder strap
BB30-FK	Replacement filter kit for BB30-COAA Breather Box®
	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

NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments. Our Auto-Air™ feature does not replace this NIOSH requirement, however, some work environments may require longer than 5 minutes to safely egress the hazardous area.



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



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

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

Key Details:

- Certified intrinsically safe CO Monitor
- 110 psi output air pressure, 3 couplings supplied
- Explosion-proof electric motor - 230/460VAC, 3 phase 50/60 HZ
- 25 foot power cord, no plug - order explosion-proof plug on page 66
- Full automatic back-up air feature, up to 5500 psi capability
- Pneumatic visual indicator and audible alarm for system failure
- ASME coded Twin-Air™ tank design for cool breathing air output
- Holds one back-up SCBA air cylinder, up to 4500 psi
- Air control panel with high pressure regulator
- 10" pneumatic tires
- Weight: 185 lbs.



TA3-AXAF
Explosion-Proof
Auto-Air™ Compressor



Explosion-Proof Auto-Air™ Compressor

Item No.	Description
TA3-AXAF	Explosion-proof compressor includes: Grade-D filtration, air control panel with CO monitor, 25' power cord, user wired per NEC requirements 1-3 workers. Reserve air cylinders sold separately.
BB30-FK	Replacement filter kit for TA3-AXAF
	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 66 for ordering information
Calibration kits available on page 22

COMP-1™ & COMP-2™ Breathing Air Compressor Systems

The COMP-1™ & COMP-2™ Compressor Systems include a TA-1 compressor, featuring Twin-Air™ receiver tanks which provide air cooled to within 10 degrees of the ambient temperature, and a Breather Box® to provide Grade-D air filtration for pressure demand respirators.

Breathing Air Compressor Systems & Components

Item No.	Description
COMP-1	TA-1 compressor, BB15-CO Breather Box®, 25' connect hose, 1 worker
COMP-2	TA-1 compressor, BB30-CO Breather Box®, 25' connect hose, 2 worker
TA-1	Electric compressor, 115/230VAC, 60 Hz, 1 - 2 worker
BB15-CO	15 cfm Breather Box®, 48 cfm flow capacity, 1 coupling
BB30-CO	30 cfm Breather Box®, 48 cfm flow capacity, 2 couplings
	Replacement Filters
BB30-FK	Filter kit for BB15 & BB30 series models Contains 1 ea. "A", "C", and "D" replacement filters



COMP-1 System
TA-1 Compressor and
Breather Box®



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

Calibration kits available on page 22

All compressors MUST be placed in a clean air environment per OSHA 1910.134

Plant Breathing Air Compressor Systems Electric, Gasoline & 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 that the system is functioning properly and that 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 so 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 Required. Contact Customer Service for details.

Dual Compressors with Auto Sequencing



Plant Breathing Air Compressor Systems Custom Engineered Solutions



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



Low Pressure Mobile Systems With Reserve Auto-Air™

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



High Pressure Fill Compressors



Vertical Fill Compressor



Horizontal Fill Compressor



Mobile Fill Trailer

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

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

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

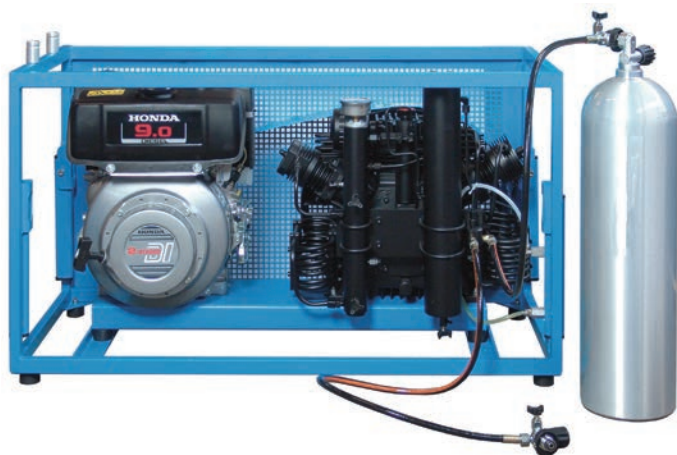
Call Customer Service to discuss your particular application or fill out the High Pressure Compressor Questionnaire located at www.airsystems.com to design a custom system to meet your needs.

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



**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, 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 multiple or extended SCBA fill capacity. **Cylinders not included. See page 38.**



CBF3-346NB

Cascade Cylinder Fill Assemblies

Item No.	Description
CBF3-346NB	3000 psi, CGA-346 fill whip, 2 connecting whips
CBF3-347NB	5000 psi, CGA-347 fill whip, 2 connecting whips
CBF3-702NB	6000 psi, CGA-702 fill whip, connecting whips

Cylinders not included

Additional Breathing Air Assemblies Available.
Contact Our Customer Service Department.

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 not included



CW-30

30" Whip with Check Valve & Tee

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

Cylinders not included



HP-FW5-346

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 1/4" NPT outlet
RG6KFIL702	Fill regulator, 6000 psi inlet, 0-5000 psi outlet with gauges, wrench tight CGA-702 inlet and CGA-347 outlet

Cylinders not included



RG-6000FIL

High Pressure to Low Pressure Adapter

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

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 not included. See page 38.**

CBA3-347NB



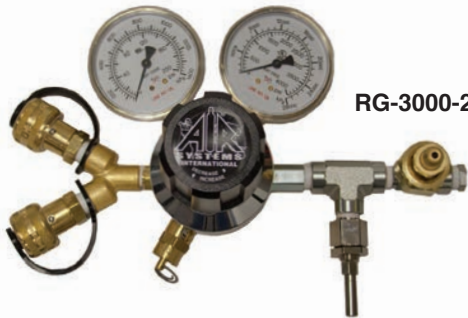
Cascade Breathing Air Assemblies

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

All assemblies include regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, and connecting whips with check valves. **Cylinders not included.** Please specify fittings when ordering.

Additional Breathing Air Assemblies and Low Pressure Bell Alarm Options Available. Contact Customer Service.

RG-3000-2Y



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

Cylinders not included. Please specify fittings when ordering.

RG-3000



High Pressure CGA Fittings

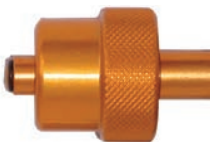
Hand Tight Fitting

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
SS702N	CGA-702 brass nut - Max Pressure 7500 psi
SS702S	CGA-702 brass stem - Max Pressure 7500 psi

SS347HT



SS347SNHT



LIFT-PAK™ - Air Cylinder Transport PAK™

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

All LIFT-PAK™ units are made to order.



**LIFT-PAK™
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

Cylinders and Hardware Not Included

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.**

Breathing Air Cylinder Storage Racks

Custom heavy-duty steel storage racks can be ordered in any combination to meet cylinder storage requirements. Racks can be floor or wall mounted in either vertical or horizontal style. Two heavy gauge chains with snap hooks are supplied for each row of cylinders. Optional forklift guides available.

**Air Cylinder
Wire Rack
TR-4**



Cylinders Not Included With Storage Racks

**Single
Cylinder
Storage
Rack
BR-1**



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

Large Air Cylinder Storage Racks

Item No.	Description
BR-1	1-cylinder wide rack
BR-2	2-cylinder wide rack
BR-3	3-cylinder wide rack
BR-22	2 deep x 2 wide, 4-cylinder rack
BR-23	2 deep x 3 wide, 6-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/O₂ Blended Air Cylinder Test Kit

Item No.	Description
AQTCOO2KIT	Test Kit - CO/O ₂ monitor, flow meter, high pressure 5K reducing regulator, 10 foot high pressure connect hose with CGA-347 universal hand tight cylinder connection



CO/O₂
Cylinder Test Kit
AQTCOO2KIT

AIR-KADDY™

Modular Aluminum SCBA Cylinder Storage Racks

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

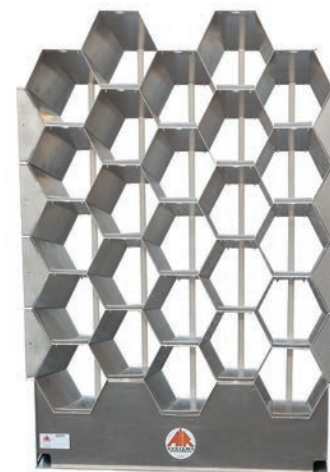
Item No.	Description
AK24-8	AIR-KADDY™ 8 cylinder rack - 32" H x 25¼" W x 22¼" D
AK24-11	AIR-KADDY™ 11 cylinder rack - 48" H x 25¼" W x 22¼" D
AK24-18	AIR-KADDY™ 18 cylinder rack - 60" H x 25¼" W x 22¼" D
AK24-24	AIR-KADDY™ 24 cylinder rack - 76" H x 25¼" W x 22¼" D

AIR-KADDY™ - Series 40 - Free Standing

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



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



AIR-KADDY™
AK40-25

Thread Saver®

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

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

See our full line of AIR-KADDY™
Cylinder Storage Racks on Page 54

UNI-PAK™ SCBA Cylinder System Marine Plastic Single Cylinder UNI-PAK™

The PAK-SFL™ is a complete single user breathing air PAK assembly designed to mount a single cylinder on a forklift while allowing the option to detach and carry as needed. The PAK-SFL™ can also be mounted on a wall for use in emergency response situations.



Key Details:

- HDPE (Marine Board) frame
- Safety relief valve, 125 PSI
- Dimensions: 34" L x 7 $\frac{2}{5}$ " W x 4 $\frac{1}{2}$ " H
- Weight: 7 lbs. without cylinder



PAK-SFL™ & bracket mounted on forklift

UNI-PAK™ - Marine Plastic Single Cylinder

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 Not Included

Air Storage Cylinders

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

Steel Single Cylinder UNI-PAK™

Ideal for working in hazardous locations or emergency response.

Key Details:

- Steel frame - powder coated
- 2-outlet manifold, specify desired respirator fittings
- Holds either a 2216 or 4500 psi SCBA cylinder
- Adjustable regulator and low pressure alarm whistle
- Dimensions: 34" L x 7 $\frac{2}{5}$ " W x 4 $\frac{1}{2}$ " D
- Weight: 7 lbs. without cylinder

Steel Single Cylinder UNI-PAK™

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

Cylinder Not Included



Optional Carrier PAK-UNI1C

Cylinder Not Included



UNI-PAK™ PAK-UNI1

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

Key Details:

- High pressure 4500 psi regulator
- Accepts 2216 psi or 4500 psi cylinders
- CGA-347 connections, universal hand tight nuts
- Low pressure alarm whistle
- In-line check valves allows independent cylinder operation
- Aluminum frame - powder coated with padded carry handles
- 4-outlet breathing air manifold with safety relief valve
- Dimensions: 29" L x 21" W x 6" D
- Weight: 25 lbs. without cylinders

PORTA-PAK™ - Twin Cylinder

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



Air Storage Cylinders

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



PAK-3
Cylinders Not Included

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

Key Details:

- CGA-347 operation at 4500 psi
- 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 air cylinder tray
- Dimensions: 33" H x 25" W x 17" D
- Weight: 37 lbs. without cylinders



Air Cylinder Trays & Accessories

Item No.	Description
PAK-4	Cylinder air tray assembly includes 3-way cylinder directional valve, secondary low pressure regulator, gauge, and additional outlet fitting. No cart, cover or cylinders.
PAK-4R	PAK-4R™ Rescue Cart - PAK-4™ with PAK-CRT included
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

Cylinder Not Included



PAK-4R
Cylinders Not Included

MULTI-PAK™ Air Cylinder Carts

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



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



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



MULTI-PAK™
Cart Cover
MP-C



Key Details:

- Holds 2216 PSI or 4500 PSI cylinders
- Steel frame with black powder coat paint
- Intrinsically safe low pressure alarm whistle (bell alarm option)
- 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)

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-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



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

Custom applications are always welcome!

MULTI-PAK™ Large Cylinder Air Carts



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



MULTI-PAK™
2 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-347) - fits 2400 to 5000 psi cylinders
- Solid aluminum block manifold
- High flow adjustable regulator
- Input and output pressure gauges
- Steel storage box with latch
- Quick release hose rack - holds 200 feet of 3/8" hose
- 16" pneumatic tires
- Dimensions: 62" H x 25" W x 30" D
- Cart Only weight: 112 lbs. no cylinders



Steel Rear Storage Box



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 Not Included

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

Ergo-Air® Cart

Air Systems' innovative air cylinder cart has been ergonomically designed to help 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

Add Features to build
the perfect cart
for your application

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

**Helps Reduce
Back Injuries**
Ergonomically Designed Mobile
Breathing Air Cart System



Key Details:

- Air pressure regulator rated for 2400, 5000, and 6000 psi
- Steel air control panel with 4-outlet respirator manifold
- 16" semi-pneumatic or pneumatic rear tires
- Front locking swivel casters (6" or 8")
- High pressure hardware with in-line check valves
- Twin cylinder straps with padded brackets
- Cart lifting hooks
- Raising the cart takes 15 lbs. of force
- Lowering the cart takes only 35 lbs. of force
- Cart dimensions: 32" W x 41" D x 62" H - semi-pneumatic tires, no accessories
- Cart dimensions: 40" W x 44" D x 62" H - pneumatic tires, no accessories
- Weight: 156 Lbs. - cart only



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



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



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

Ergo-Air® Carts - Hazardous Locations

Item No.	Description
Pneumatic Tires	
EAC-97PHNB	Ergo-Air® cart, 5000 psi regulator, low pressure whistle, pneumatic tires
EAC-97PS2A	Ergo-Air® cart, 5000 psi regulator, upper storage box, low pressure whistle, auto hose reels (2) - holds 50 feet of 3/8" hose
EAC-97PS3M	Ergo-Air® cart, 5000 psi regulator, upper storage box, low pressure whistle, manual hose reel (1) - holds 200 feet of 1/2" or 300 feet of 3/8" hose
EAC-97PSM2	Ergo-Air® cart, 5000 psi regulator, upper storage box, low pressure whistle, manual hose reels (2) - holds 100 feet of 3/8" hose per reel
Semi-Pneumatic Tires	
EAC-97HNB	Ergo-Air® cart, 5000 psi regulator, low pressure whistle, semi-pneumatic tires
EAC-97SBA2	Ergo-Air® cart, 5000 psi regulator, upper storage box, low pressure whistle, auto hose reels (2) - holds 50 feet of 3/8" hose per reel
EAC-97SBM3	Ergo-Air® cart, 5000 psi regulator, upper storage box, low pressure whistle, manual hose reel (1) - holds 200 feet of 1/2" or 300 feet of 3/8" hose
EAC-97SB2M	Ergo-Air® cart, 5000 psi regulator, upper storage box, low pressure whistle, manual hose reels (2) - holds 100 feet of 3/8" hose per reel

Hose and Cylinders Sold Separately

Ordering Made Easy:
One part number
to order a standard
Ergo-Air® Cart.

**See the Ergo-Air® Cart Brochure
for Custom Options at
www.airsystems.com or
Call Customer Service to
Build a Custom Cart.**

Ergo-Air® Cart Accessories

Item No.	Description
Breathing Air Hose	
H-50-3	3/8" Hose - 50 foot length - 1/4" Hansen fittings
H-100-3	3/8" Hose - 100 foot length - 1/4" Hansen fittings
H-300-3	3/8" Hose - 300 foot length - 1/4" Hansen fittings
H-200-5	1/2" Hose - 200 foot length - 1/2" Hansen fittings
Air Storage 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
Other Options	
EAC-C	Nylon cart cover - fits all Ergo-Air® carts

Other Hose Lengths & Fittings Available



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

Breathing Air Transporter™

Breathing Air Where You Need It!



Patent Pending

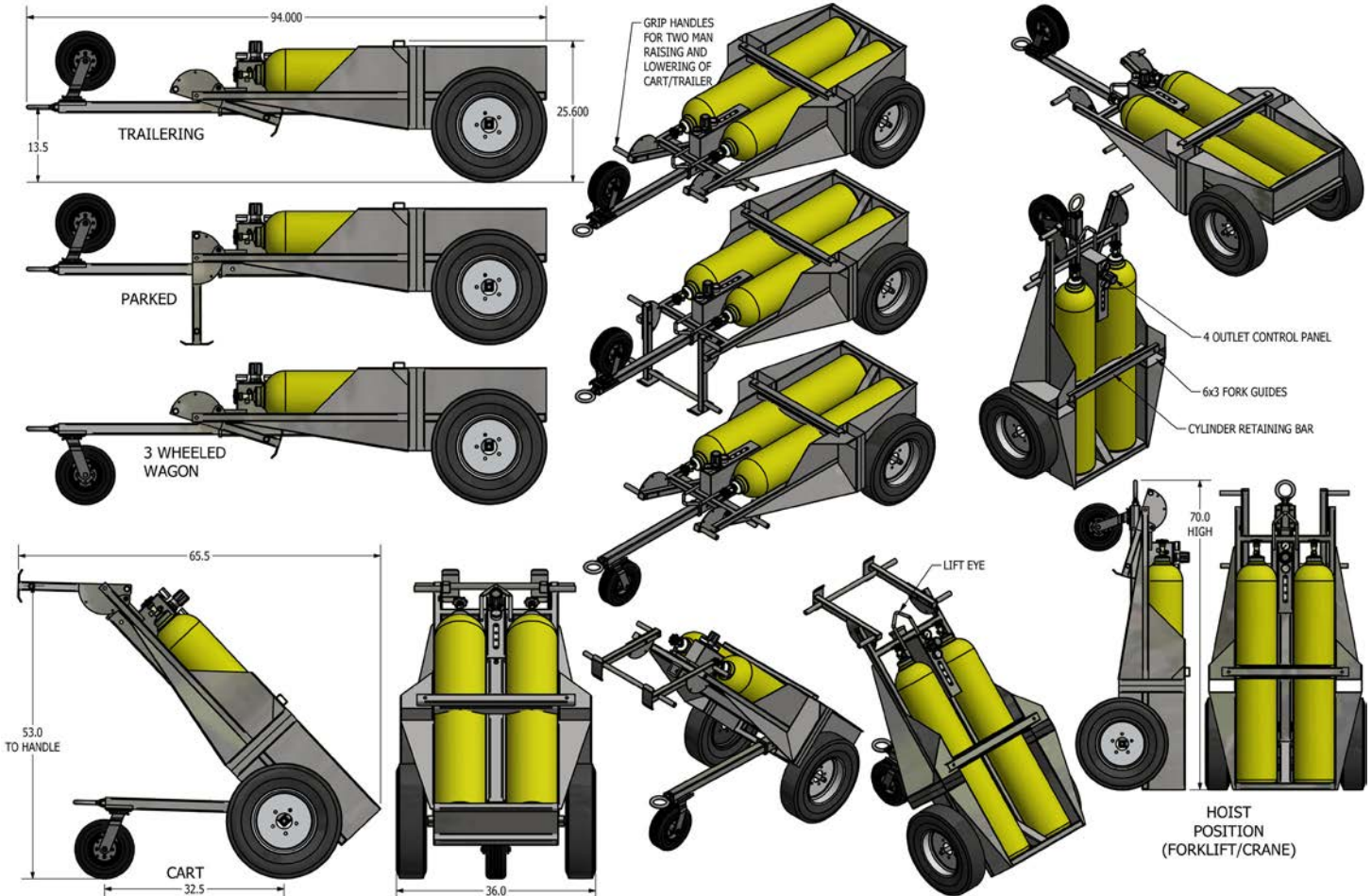


Key Details:

- 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.
- Pneumatic Tires:
 - Rear twin 21" tires - highway rated
 - Front swivel 10" tire rated for 350 lbs. - swivel stowed up when towing on highway
- Lunette ring for Pintle Hitch connection
- Lift Required from horizontal to vertical mode: two persons using 45 lbs. of lift
- Trailer Dimensions: Length 94", Height 25", Width 36"
- Vertically Stored Dimensions: Height 70"
- Weight:
 - Empty 262 lbs.
 - With two 444 cf air cylinders 570 lbs.

So Many Ways to Use!

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



Breathing Air Transporter™ (BAT) Large Air Cylinder Trailer

Item No.	Description
BAT-2B	BAT 2-cylinder air cart, 5000 psi, pneumatic alarm whistle.
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 Not Included



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



BB650-COPM
650 cfm Grade-D
Air Filtration



Custom Plant Breathing Air



Grade-D Filtration
for Clean Room Applications



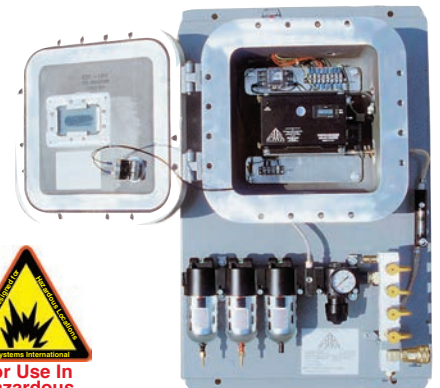
Explosion-Proof
Remote Alarm
EXALM-HL



Explosion-Proof
Remote Alarm
50-EXALPST



For Use In
Hazardous
Locations



Explosion-Proof
Grade-D Filtration Panel
B50-COPMEX

Call Customer
Service for
Additional Details



Portable Plant Filtration Cart
with Auto-Air™ Feature



Custom
Cylinder
Air Cart with
Hose Reels

Custom Designed High Pressure Breathing Air Cylinder Carts and Trailers

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



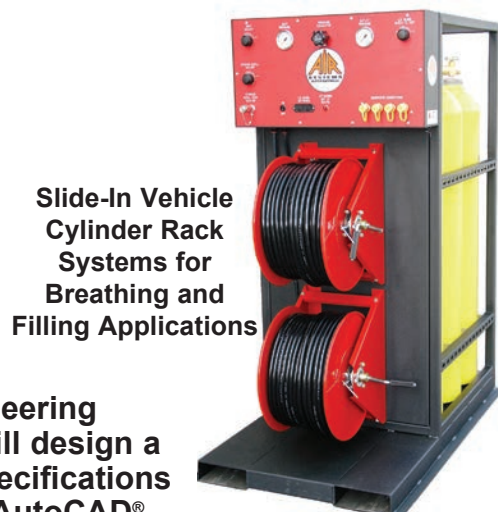
Emergency Response Open or Enclosed Trailers for Long Duration Breathing or Cylinder Filling Applications



Long Duration Air Storage Hazardous Response Trailers



Custom Response Trailer



Slide-In Vehicle Cylinder Rack Systems for Breathing and Filling Applications

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

Small SCBA Cylinder Rack System



Call Customer Service for Additional Details

All carts can be customized to meet your particular application.



Custom Air-Wagon™



Custom Rack Designs for Mobile Breathing Air Applications and Quick Filling of SCBA Cylinders



MACK™ - Multi Air Command Kits

Air Distribution for Breathing, Filling, and Rescue Applications

Designed and Tested By Fire and Rescue Professionals

Multi Air Command System
MACK-1



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

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

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

MACK-1™ Key Details:

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



MACK-2™ Key Details:

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

MACK™ 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 Not Included

SCBA Cylinders

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

AC-60

AC-87



MACK-NFPA™ Rescue Series

For Confined Space Rescue Teams

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

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



Multi Air Command 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 Not Included

The MACK-3™ System

Designed and Tested by Fire & Rescue Professionals



Multi Air Command System
MACK-3



Key Details:

- Light for operation in low light conditions
- CGA-347 male adapter used as a high pressure auxiliary inlet. It can be connected to a high pressure compressor or a truck mounted cascade system
- Air source selector valve
- Low pressure breathing air manifold, 125 psi maximum
- Medium pressure tool manifold, 275 psi, maximum for additional air tools
- Low pressure manifold for lift bags and tools, 125 psi maximum
- Inlet whips are connected to 2216 or 4500 psi cylinders
- Low pressure alarm whistles

Optional fill regulator to fill SCBA cylinders



MACK-3FA
Fill Regulator Assembly

Three separately regulated manifolds provide a portable air distribution package for any pressure requirement.

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

MACK-3™

Item No.	Description
MACK-3	8 low pressure respirator/tool outlets (0-150 psi), 3 medium pressure outlets (0-250 psi), 4 high pressure inlet whips, 1 high pressure CGA-347 inlet and pressure cap, low pressure alarm whistle
MACK-3FA	Fill regulator assembly for MACK-3, includes 5 foot fill hose

Cylinders Not Included

Tech-Rescue™ Cart



Tech-Rescue™ Cart
MP-TR1



Tech-Rescue™
Control Panel
MP-TR1



Cart Cover
MP-C



QFH-5MPTR1
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 secondary air requirements. Two 4500 psi cylinders or 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.

Tech-Rescue™ Cart & Accessories

Item No.	Description
MP-TR1	Tech-Rescue™ Cart, 1/4" Hansen style or Schrader style fittings standard. Optional fittings available at an additional charge.
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 Not Included

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

Key Details:

- Stainless Steel Cart
- Fold Down Handle
- Upper & Lower Hose Rack
- Dimensions: 21" L x 16" W x 41" H (handle up), 34.5" (handle down)
- Weight: 49 lbs. (no cylinders)

Yellow - Respirator Side

- High/Low Pressure Relief Valve Switch
- Respirator L/P Alarm Whistle
- 0-125 psi Output Regulator
- 4 Respirator Fittings

Blue - Tool Side

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



MULTI-PAK™ Rescue Air Cart



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-4RSS	MULTI-PAK™ Rescue Cart, Stainless Steel, same as MP-4R
MP-C	Cart cover - 400 denier black nylon for small MP-series carts

Cylinders Not Included

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

Key Details

- Black powder coated steel frame
- Low pressure regulator for pneumatic tools / lift bags, 0 - 125 psi, 1 outlet
- Intrinsically safe low pressure alarm whistle
- High flow adjustable regulator
- Input and output pressure gauges
- Solid aluminum block manifold
- Fold down handle
- Nylon cylinder straps with Velcro®
- Cylinder selection switch
- Dimensions: 21" L x 16" W x 41" H (handle up), 34.5" (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 quick response at an economical price. The trailers, available in two series, provide breathing air for airline respirators, rescue air tools, or SCBA quick filling.

The 100 series is an open frame six cylinder trailer. The 200 series is an enclosed 4-6 cylinder trailer. Both trailers have a rear air control panel with respirator couplings and CGA-347 fittings to bulk fill the storage cylinders and provide for attachment of a quick fill hose for SCBA filling.



**AR-101
Cascade Air Trailer**

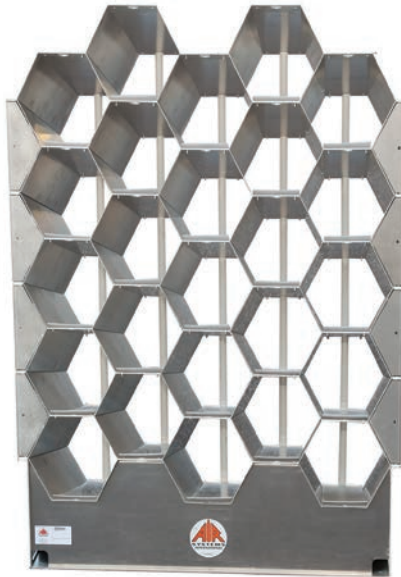
Contact Customer Service for options and specifications

AIR-KADDY™

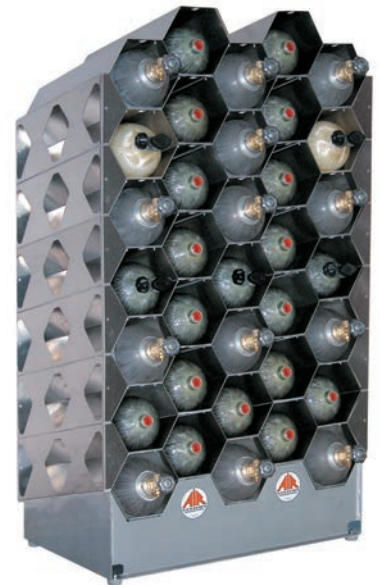
Modular Aluminum SCBA Cylinder Storage Racks



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



AIR-KADDY™
AK40-25



AIR-KADDY™ with Cylinders
AK40-35

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

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

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

AIR-KADDY™ - Series 40 - Free Standing

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

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

Thread Saver®

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

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



Thread Saver®



Dual AIR-KADDY™ Racks in Truck
AK24-11



Custom Fire and 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 to discuss your requirements and we will provide AutoCad® drawings to meet your specifications.



Custom cascade air control panels to manage entire fill system



Gasoline, Diesel or Electric Fill Compressors from 3.5 to 26 cfm



Air Storage Systems in horizontal or vertical configurations for large air cylinders



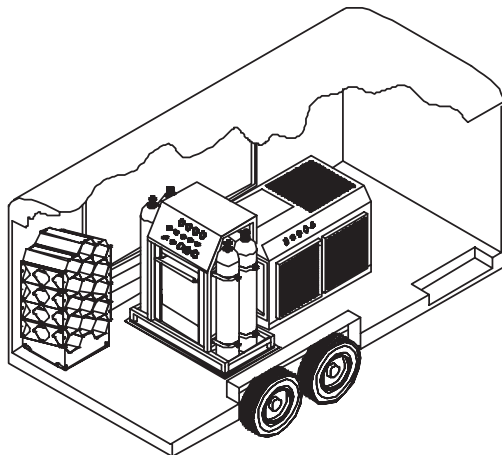
Custom SCBA Storage Using Air Systems' Unique AIR-KADDY™ SCBA Cylinder Racks



NFPA Compliant Full Containment Fill Stations from 2 to 4 cylinder fill positions



Slide in vehicle rack systems to upgrade rescue vehicles



Fully Enclosed Breathing Air Trailer with Fill Compressor, Air Storage Cylinders and Containment Fill Station

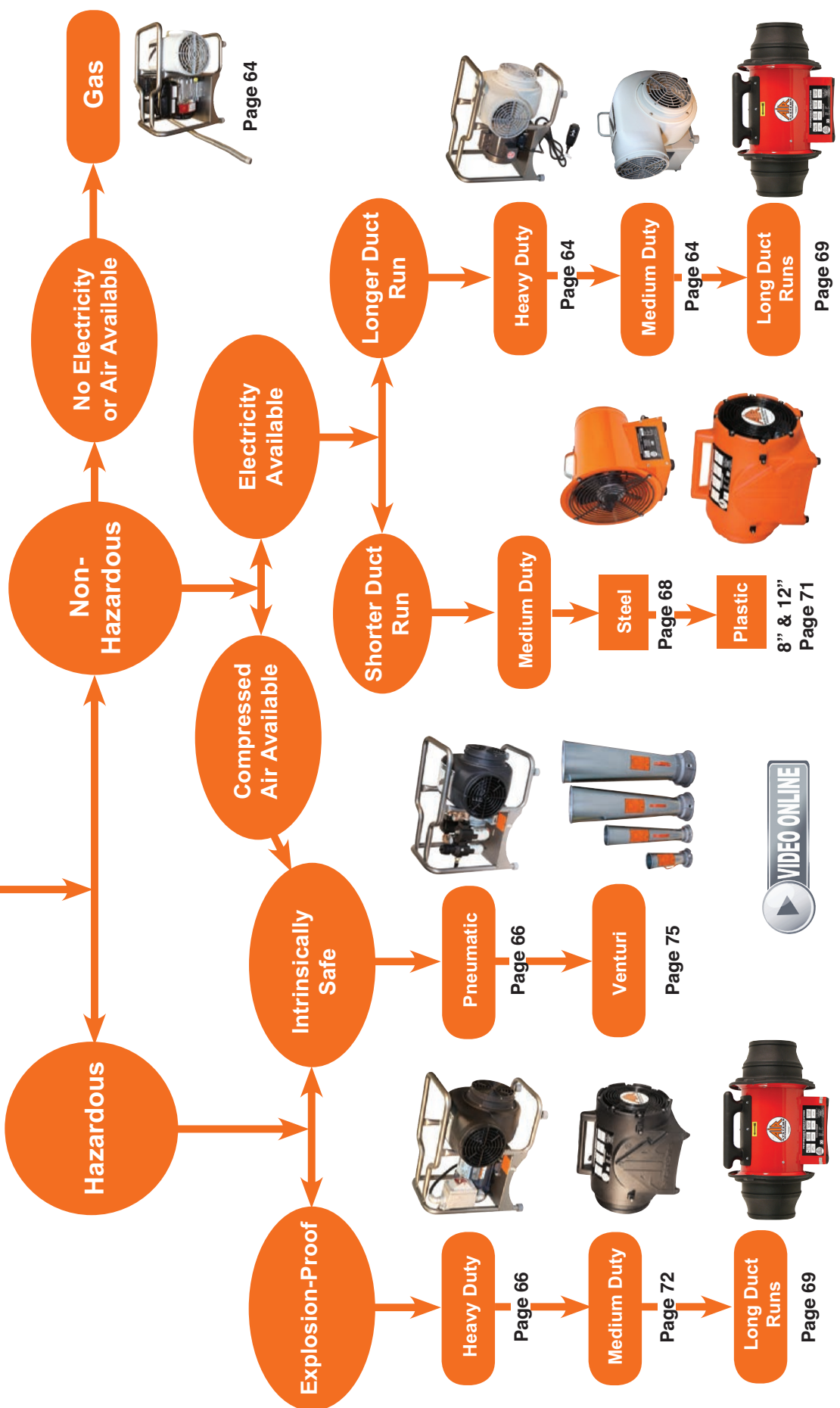
Optional sound proofing, air conditioning or heating packages, generators and lighting





Blower & Fan Selection Guide

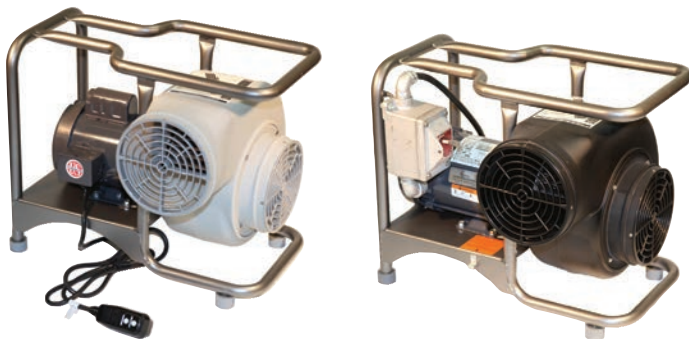
Atmospheric Testing Results



Axial Fan vs. Centrifugal Blower Picking the Best Fan or Blower for the Job

When selecting a fan or blower, all ventilators have two characteristics:

- 1) **Air flow** - Air volume delivered and measured by cubic feet per minute (CFM).
- 2) **Air pressure** - Force of air volume is measured by inch of water gauge (WG).



Axial Fans

An axial fan creates high air flow but the blade design develops lower pressure. When used with ducting, the ventilation duct creates air movement resistance and the axial fan becomes inefficient at longer distances. Axial fans are designed with several large paddle blades that develop a large volume of air flow (CFM).

When to use:

Axial fans are lightweight, low cost and best when working at short distances with minimal ducting, preferably 15 to 25 foot flexible ducting.

Centrifugal Blowers

A centrifugal blower uses a “squirrel cage” designed with numerous forward curving blades on a wheel. The blades create significant volume (CFM) and very high air pressure (WG).

When to use:

Centrifugal blowers are typically heavier and cost more than axial fans due to the motor required to efficiently run the blades. Centrifugal blowers are used to move air a long distance using long or multiple lengths of duct.

In-Line Axial Fans

The in-line axial fan can be used by itself or used with a fan or blower as a velocity accelerator for long duct distances over the 15 or 25 foot standard duct length.

When to use:

When ventilating at long distances, simply add an in-line fan to the ducting to increase or maintain air flow for long distances. In-line fans can be used with either axial or centrifugal blowers to extend longer ventilation distance.



Warning: Always select a certified explosion-proof or pneumatic fan/blower when working in hazardous locations.

Certified for Safety

Confined Space Ventilation Blowers and Fans Certified by a Nationally Recognized Testing Laboratory (NRTL)

Why Use Only NRTL Certified Fans or Blowers?



OSHA in the United States, along with almost all major countries in the world, require independently recognized certification laboratory testing for all AC electrical devices. U.S. OSHA states “**Electrical equipment must be approved by a Nationally Recognized Testing Laboratory (NRTL)**” as stated in 29 CFR 1910.303(a). Additionally, U.S. OSHA states in 29 CFR 1910.7 “**NRTLs must approve this equipment using US recognized test standards.**”



Air Systems is proud to offer ATEX, IECEx, CE, NOM, CSA and CSA/US Certified fans and blowers which have been independently tested to assure safety for our customers.

Logo

North American Certifications



Canadian Standards Association International (CSA)
Products Certified for use in the United States and Canada



Canadian Standards Association International (CSA)
Products certified for use in Canada

Logo

International Certifications



European Conformity (Conformité Européenne)
Products certified for use in the European Union



Normas Oficiales Mexicanas (NOM)
Products certified for use in Mexico



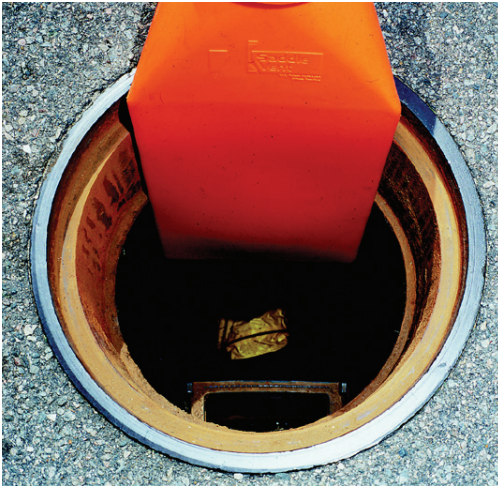
ATmosphères EXplosibles (ATEX)
European Union Hazardous Location Certification
Products certified for use in the European Union



International Electrotechnical Commission System (IECEx)
Products certified for use in explosive atmospheres in many countries including Australia, Brazil, and Japan

The Industrial Saddle Vent® Designed for use in Non-Hazardous Locations

The Saddle Vent® was developed by Air Systems and has been in use around the world for over 25 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.

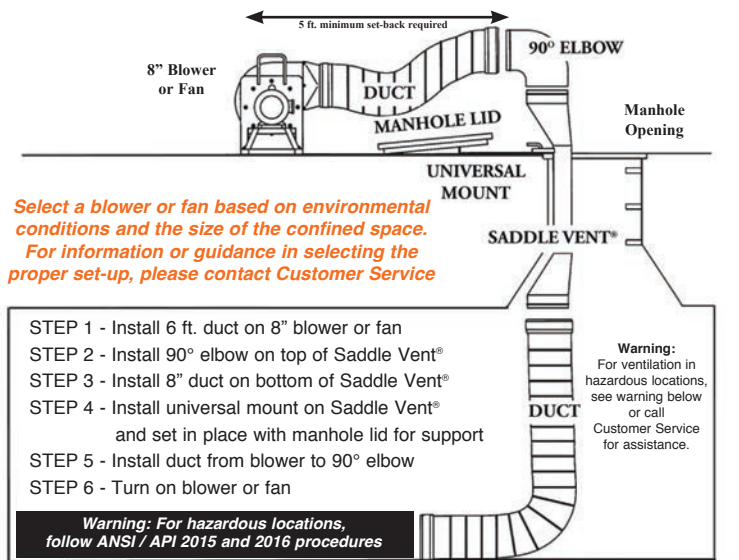


The Saddle Vent® allows unrestricted entry and exit and improves ambient light in a confined space opening.

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

The Saddle Vent® Ventilation System

Typical Saddle Vent® Setup Procedure



Select a blower or fan based on environmental conditions and the size of the confined space. For information or guidance in selecting the proper set-up, please contact Customer Service

- STEP 1 - Install 6 ft. duct on 8" blower or fan
- STEP 2 - Install 90° elbow on top of Saddle Vent®
- STEP 3 - Install 8" duct on bottom of Saddle Vent®
- STEP 4 - Install universal mount on Saddle Vent® and set in place with manhole lid for support
- STEP 5 - Install duct from blower to 90° elbow
- STEP 6 - Turn on blower or fan

Warning: For hazardous locations, follow ANSI / API 2015 and 2016 procedures

WARNING: HAZARDOUS LOCATION OPERATIONS

Use a certified explosion-proof blower or fan, conductive ducting and the conductive Saddle Vent® system. Attach all grounding wires and assure a complete circuit to the blower in order to remove static charges.

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 61.



The Conductive Saddle Vent® System

Designed for use in Hazardous Locations



The Conductive Saddle Vent® System is supplied with our explosion-proof & pneumatic blower kits or it can be purchased separately to upgrade your current ventilation equipment.



The Saddle Vent® Safety Improvements

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

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

Patents:

United States Patents #6,843,274
 #7,467,645
 #7,992,593 B2
 Canadian Patents #2,561,299
 #2,436,809
 China Patent ZL200480017833.3
 Hong Kong Patent HK1094023
 European Patents #1491695
 Australian Patent 2004 202394

The Conductive Saddle Vent® System Set Up Procedure

- Step 1)** Select an electric explosion-proof or pneumatic 8" blower with an installed metal grounding lug.
- Step 2)** Read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.
- Step 3)** Use only conductive 8" ducting supplied with a continuous metal helix and a static ground wire connected to the helix. The ground wire is connected to the metal ground lug on the blower (See Pic. 1).
- Step 4)** Attach the conductive elbow to the top of the black Conductive Saddle Vent® (see Pic. 2) and attach the ground wire from the duct to the elbow. If no elbow is used, an alternate ground lug is provided on the top of the Conductive Saddle Vent®.
- Step 5)** Attach conductive duct to the base of the Conductive Saddle Vent® and attach the ground wire to the Conductive Saddle Vent®.
- Step 6) Test the ventilation set-up for conductivity prior to starting ventilation.** Use a volt/ohm meter set to read ohms in "thousands". Attach a lead from the meter to the farthest end of the duct's grounding wire and the other lead touching the ground lug on the blower. A reading less than 500K ohms will assure a good ground is achieved to allow any static charges to flow toward the grounded source (See Pic. 3). Pneumatic blowers should have a ground wire run from the blower to a grounded source.
- Step 7)** The ventilation system is now ready for use. Place the duct and Conductive Saddle Vent® system in the manhole and secure with the universal mount. Follow the "Typical Saddle Vent® set-up procedure found in your blower's instruction manual.

Conductive Saddle Vent®

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

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

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



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

Saddle Vent® ordering information on page 61.



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



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



Saddle Vent® Special Application Devices

Tank Saddle Vent®

The Tank Saddle Vent® is designed for ship and tank applications and fits small round and oval entry ports 20" and smaller. **DOD approved for US Navy use.**



8" Tank Saddle Vent®
SV-189T

Tank Saddle Vent®

Item No.	Description
SV-189T	8" Tank Saddle Vent®, grey, 32" H x 13" W x 5" D
SV-90T	90° elbow to fit 8" Tank Saddle Vent® - grey

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



8" 90° elbow
SV-90T



8" Saddlator™
SV189-29

The Saddlator™

Pneumatic Powered 8" Conductive 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.

The Saddlator™

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

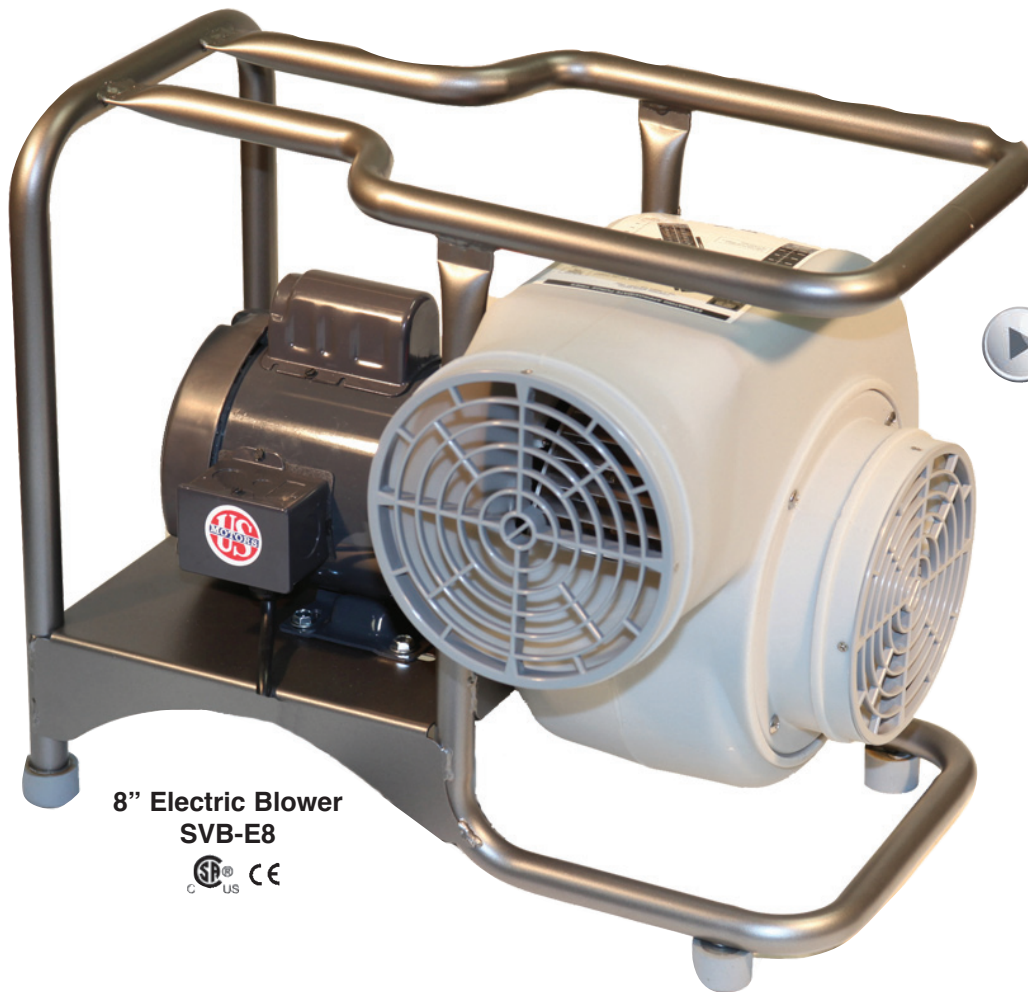
The Saddlator™

- Conductive Saddle Vent® with Venturi base installed
- 90° bolt-on conductive elbow, SV90-29, supplied
- Air operated, no moving parts
- 1/2" Industrial Interchange plug
- Static ground lug installed
- Delivers 2000-3000 cfm on pressures from 50-100 psi
- 8" Inlet and Outlet

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



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



▶ VIDEO ONLINE



8" Electric Blower
SVB-E8



Model	Model No.	Speed	Free Air	25' 1-90° Bend	25' 2-90° Bends
Economy Blower	SVB-E8EC	1 Speed	1390 CFM	931 CFM	779 CFM
Standard Blower	SVB-E8	1 Speed	1570 CFM	1047 CFM	873 CFM
Standard Blower (50 Hz)	SVB-E850	1 Speed	1308 CFM	873 CFM	728 CFM
2-Speed Blower	SVB-E8-2	High	1570 CFM	1047 CFM	873 CFM
		Low	750 CFM	490 CFM	425 CFM
Gasoline Blower	SVB-G8	High	3000 CFM	1725 CFM	1295 CFM
		Low	1500 CFM	1040 CFM	870 CFM

Key Details:

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

Applications

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



8" Economy Electric Blower
SVB-E8EC



8" Electric Blower
SVB-E8-2



8" Gas Blower
SVB-G8



8" Blower Kit
SV-CUP



8" Electric Blower 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, 43 lbs.
SVB-E8	Electric motor - 3/4 HP, TEFC, 115 VAC, 10.8 amp, 60 Hz, GFI power cord, 62 lbs.
SVB-E850	Electric motor - 3/4 HP, 230 VAC, 50 Hz, TEFC, specify plug, 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, 72 lbs.
SVB-G8	Gasoline motor - 127 cc Briggs & Stratton (approximately 4 HP), 5' remote flexible steel hose. 62 lbs.
SVB-G8-H	Gasoline motor - 118 cc Honda (approximately 4 HP), 5' remote flexible steel hose. 62 lbs.

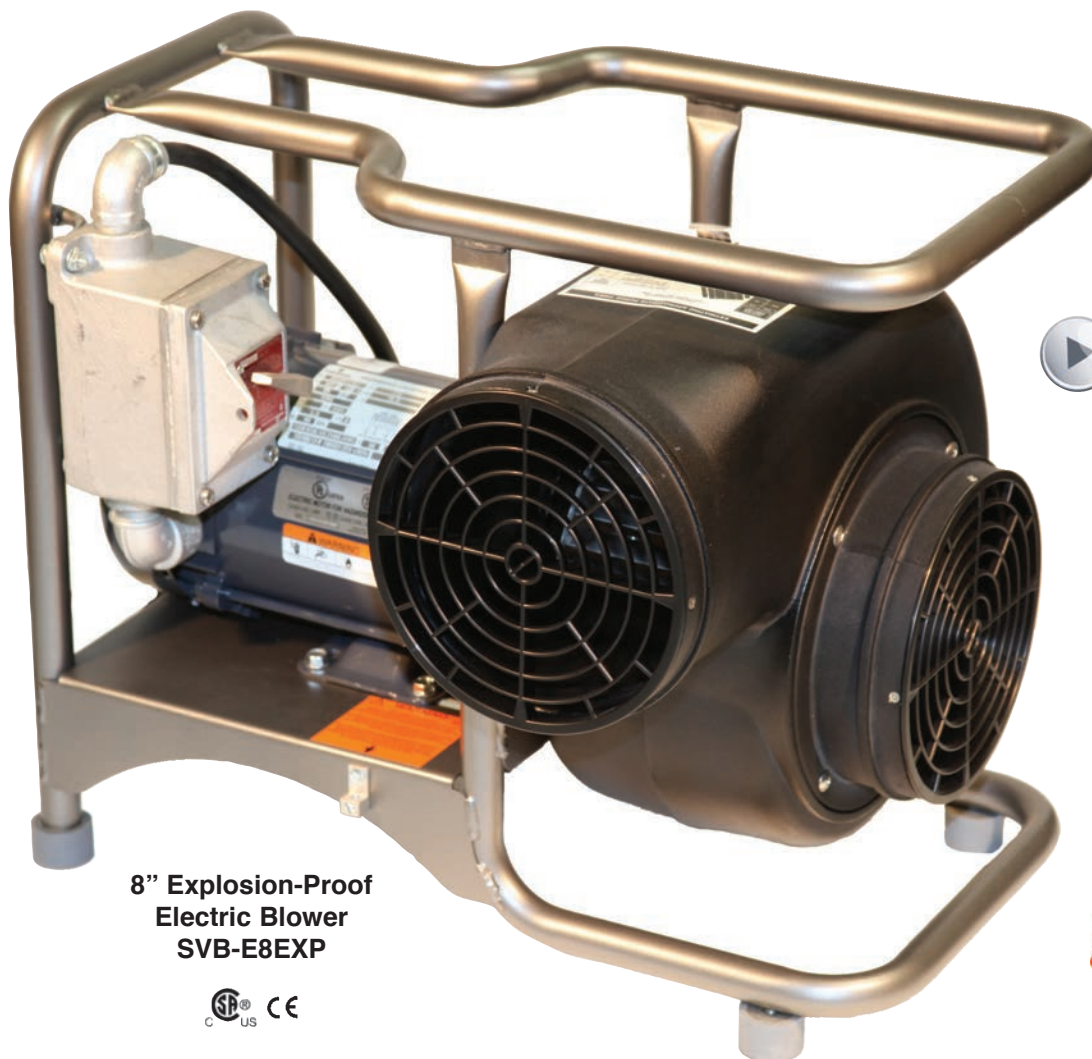


8" Centrifugal Blower Kits - Non-Hazardous Locations

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	Blower Kit Only: Industrial Saddle Vent®, 90° elbow, 6 and 15 foot duct, duct canister, and universal mount



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



8" Explosion-Proof
Electric Blower
SVB-E8EXP



Model	Model No.	Speed	Free Air	25' 1-90° Bend	25' 2-90° Bends
Exp Blower	SVB-E8EXP	1 Speed	1570 CFM	1047 CFM	873 CFM
Exp Blower (50 Hz)	SVB-E8X250	1 Speed	1308 CFM	872 CFM	729 CFM
Pneumatic Blower	SVB-A8	High	3000 CFM	1725 CFM	1295 CFM
		Low	1500 CFM	1040 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" Intrinsicly Safe
Pneumatic Blower CE
SVB-A8



8" Conductive Blower Kit
SV-CUPCND

8" Centrifugal Blowers for Hazardous Locations

Item No.	Description
SVB-E8EXP	Explosion-proof electric motor - 3/4 HP, 115 VAC, 12.6 amp, 72 lbs. Plug not included.
SVB-E8X250	Explosion-proof electric motor - 3/4 HP, 220 VAC, 50 Hz, 78 lbs. Plug not included.
SVB-A8	Pneumatic motor - 4 HP, operates from 10-100 psi. Includes moisture / oil separator and filter, 61 lbs.

Plug sold separately. No additional labor charge for installation prior to shipment.

Explosion-Proof Electric Blower Kit

Item No.	Description
SVB-E8XCUP	Explosion-proof electric blower (SVB-E8EXP) and Conductive Kit SV-CUPCND, Plug not included. Order plug below.
SVB-A8CUP SV-CUPCND	Intrinsicly Safe pneumatic blower (SVB-A8) and Conductive Kit SV-CUPCND Conductive Blower Kit Only: Conductive Saddle Vent®, 90° conductive elbow, 6 and 15 foot conductive duct, duct canister, and universal mount

Plug sold separately. No additional labor charge for installation prior to shipment.

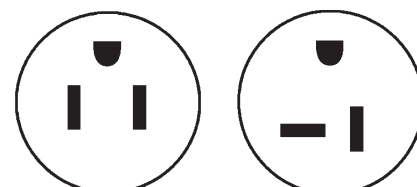
Explosion-Proof Plugs

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

No additional labor charge for installation prior to shipment.

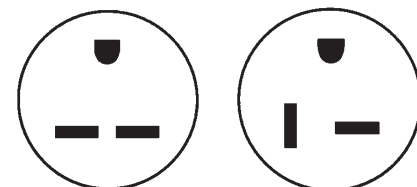


Explosion-Proof Plugs



ELAP15231

ELAP20231



ELAP15232

ELAP20232



Ventilation Filter Accessories

Inlet Filter Assembly

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



SVB Blower
sold separately

Filter Holder Standard Filter HEPA Filter



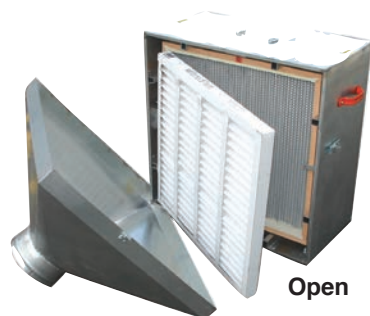
8" Inlet Filters

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

See pages 63 - 66 for SVB blowers.

In-Line HEPA Filter Holder

- Attaches before or after blower for positive or negative filtration
- Pre-filter for dusts or odors (ordered separately)
- 8" inlet and exhaust flanges (other sizes available)
- Galvanized steel frame
- Optional stainless steel or aluminum frame available
- Holds a 24" x 24" x 11½" HEPA filter plus a 24" x 24" x 2" pleated pre-filter (ordered separately)



Open



Closed

In-Line HEPA Filter Holder
FH24-8-14

HEPA Filter Holder and Accessories

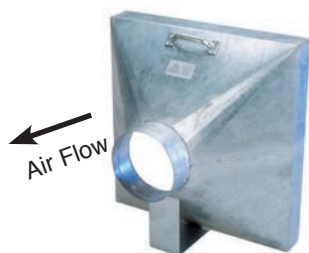
Item No.	Description
FH24-8-14	In-line HEPA filter holder, 8" duct holds 24" x 24" x 11½" HEPA and 2" pre-filter, each
FLTR004C	Pleated dust filter, 24" x 24" x 2", case of 12
ASI-242C	Pleated carbon odor removal filter, 24" x 24" x 2", case of 12
PFE-2412HF	HEPA Filter, 24" x 24" x 11½", sold each

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 Filter Holder, 8" duct, holds 24" x 24" x 2" pre-filter
FLTR004C	Pleated dust filter, 24" x 24" x 2", case of 12
ASI-242C	Pleated carbon odor removal filter, 24" x 24" x 2", case of 12

8" Steel Axial Fans & Kits

8" Electric Axial Fan
SVF-8AC



8" Steel Axial Canister Fan
SVF-15ACAN

Model	Model No.	Free Air	25' 1-90° Bend	25' 2-90° Bends
AC Blower	SVF-8AC	1275 CFM	797 CFM	677 CFM
AC Blower (50Hz)	SVF-8AC50	1063 CFM	664 CFM	564 CFM
DC Blower	SVF-8DC	1275 CFM	797 CFM	677 CFM

Our steel axial fan is a rugged, low cost fan with high volume output and medium static pressure. It is designed for non-hazardous locations and CSA/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 wants a one piece ventilation package.

8" Steel Axial Fans & Kits

Item No.	Description
8" Steel Axial Fans	
SVF-8AC	AC axial fan - 1/3 HP, 115 VAC, 60 Hz, 27 lbs.
SVF-8AC50	AC axial fan - 1/3 HP, 230 VAC, 50 Hz, 27 lbs.
SVF-8DC	DC axial fan - 12 VDC, 1/4 HP, 20 amps, supplied with battery clamps, 25 lbs.
8" Steel Axial Canister Fans	
SVF-6ACAN	AC canister fan with 6 foot duct installed
SVF-15ACAN	AC canister fan with 15 foot duct installed
SVF-25ACAN	AC canister fan with 25 foot duct installed
SVF-6DCAN	DC canister fan with 6 foot duct installed
SVF-15DCAN	DC canister fan with 15 foot duct installed
SVF-25DCAN	DC canister fan 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 with Fan for Intake and Exhaust



SVF-10EXP



Dual grounding lugs to remove static electricity

SVF-10X220



Model	Model No.	Free Air	25' 1-90° Bend	25' 2-90° Bends
10" Blower	SVF-10E	1390 CFM	870 CFM	858 CFM
10" Blower (50 Hz)	SVF-10AC50	1158 CFM	725 CFM	715 CFM
Model	Model No.	Free Air	25' 1-90° Bend	25' 2-90° Bends
10" EXP Blower	SVF-10EXP	1390 CFM	870 CFM	858 CFM
10" EXP Blower (50 Hz)	SVF-10X220	1158 CFM	725 CFM	715 CFM

The 10" in-line axial fan has been designed to be used as a stand alone fan or attached in series to run long lengths of ventilation duct. Intake and exhaust flanges allow for either 8" or 10" duct to be attached to either end of the blower to achieve positive or negative ventilation. Made of lightweight steel, the blower is available in standard or explosion-proof electric versions. The conductive explosion-proof fan, SVF-10EXP, is certified by CSA for sale in the US and Canada. Model SVF-10X220 is ATEX and IECEx certified by Intertek for use in Zone 1 or Zone 2 hazardous locations.

10" In-Line Steel Axial Fans

Item No.	Description
Non-Hazardous Locations	
SVF-10E	10" Electric in-line fan, continuous duty, 1/3 HP, 115 VAC, 60 Hz, 30 lbs.
SVF-10AC50	10" Electric in-line fan, continuous duty, 1/3 HP, 230 VAC, 50 Hz, 30 lbs.
Hazardous Locations	
SVF-10EXP	10" Explosion-proof electric in-line fan, continuous duty, 1/3 HP, 115 VAC, 1-phase, 60 Hz, plug not included, 38 lbs.
SVF-10X220	10" Explosion-proof electric in-line fan, continuous duty, 1/3 HP, 230 VAC, 50/60 Hz, plug not included, 38 lbs.

Approved for Hazardous Location Usage:

SVF-10EXP - CSA C/US certified for Classes 1 and 2, Groups C, D, E, F, and G.

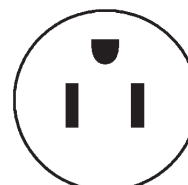
SVF-10X220 - ATEX and IECEx certified for II 2 Gc Ex d IIB T6 Gb

Explosion-Proof Plugs

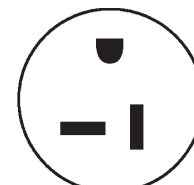
Item No.	Description
ELAP15231	15 AMP, 125 VAC, EXP plug w/quick wiring (5-15P) USA / Canada
ELAP20231	20 AMP, 125 VAC, EXP plug w/quick wiring (5-20P) USA / Canada
ELAP15232	15 AMP, 250 VAC, EXP plug w/quick wiring (6-15P) International
ELAP20232	20 AMP, 250 VAC, EXP plug w/quick wiring (6-20P) International

No additional labor charge for installation prior to shipment.

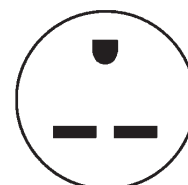
Explosion-Proof Plugs



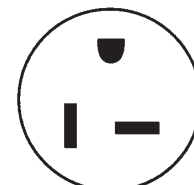
ELAP15231



ELAP20231



ELAP15232



ELAP20232

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



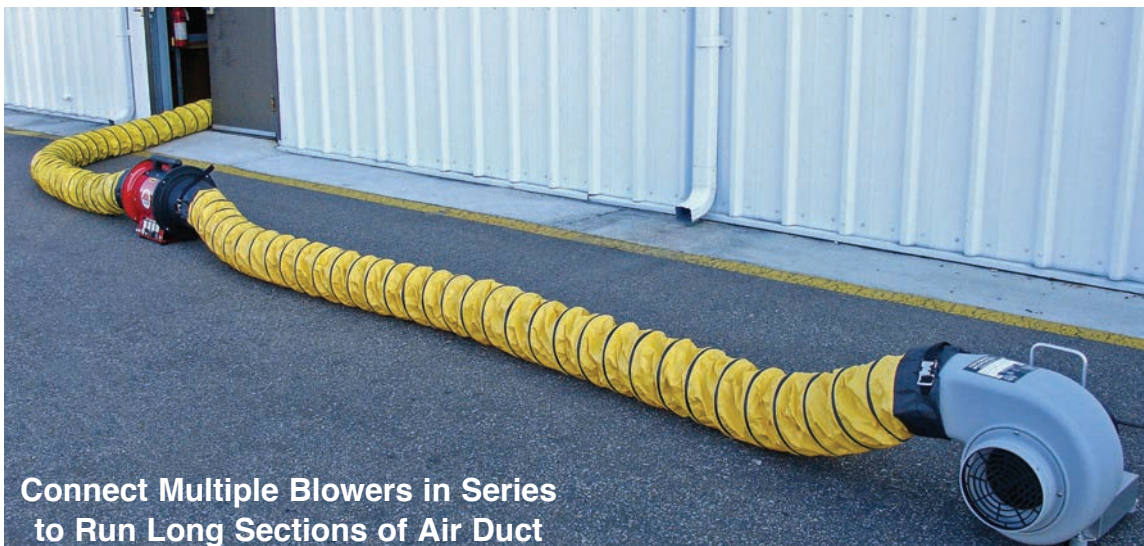
10" In-Line Electric Fan Kit

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. Plug not included.

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

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

SVF10EXCUP plug sold separately. No additional labor charge for installation prior to shipment.



Connect Multiple Blowers in Series to Run Long Sections of Air Duct

8" and 12" CVF Axial Fans and Kits For Non-Hazardous Locations



8" Axial Fan
CVF-8AC
SP[®] CE
C_{US}



12" Axial Fan
CVF-12AC
SP[®] CE
C_{US}

CVF axial fans are made out of rugged, lightweight polyethylene, providing fresh air for confined space ventilation.

Model	Model No.	Free Air	15' 1-90° Bend	15' 2-90° Bends
8" AC Blower	CVF-8AC	974 CFM	786 CFM	661 CFM
8" AC Blower (50Hz)	CVF-8AC50	830 CFM	705 CFM	629 CFM
8" DC Blower	CVF-8DC	974 CFM	786 CFM	661 CFM
12" AC Blower	CVF-12AC	1,866 CFM	1,497 CFM	1,282 CFM
12" AC Blower (50Hz)	CVF-12AC50	1,555 CFM	1,248 CFM	1,068 CFM

CVF Axial Fans

Item No.	Description
CVF-8AC	8" AC Axial Fan - 1/3 HP, 115 VAC, 60 Hz, 17 lbs.
CVF-8AC50	8" AC Axial Fan - 1/3 HP, 230 VAC, 50 Hz, 18 lbs.
CVF-8DC	8" DC Axial Fan - 1/4 HP, 12 VDC, 19 amps, with battery clips, 18 lbs.
CVF-12AC	12" AC Axial Fan - 115 VAC, 50/60 Hz, GFCI plug, 28 lbs.
CVF-12AC50	12" AC Axial Fan - 230 VAC, 50 Hz, user specifies plug, 28 lbs.

CVF 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
CVF12CAN15	12" CVF-12AC Axial Fan, 15 foot duct canister
CVF12CAN25	12" CVF-12AC Axial Fan, 25 foot duct canister
DC Canister Fan & Air-Light[®] II (light details on page 83)	
ERVK-15DC	CVF-15DCAN Canister Fan and AL2-4K-35 Light
ERVK-25DC	CVF-25DCAN Canister Fan and AL2-4K-35 Light
Duct Canister Only - Fits 8" CVF Fans	
CVF-CAN15	8" Duct canister with 15 foot duct
CVF-CAN25	8" Duct canister with 25 foot duct
CVFCAN1215	12" Duct canister, 15 foot duct
CVFCAN1225	12" Duct canister, 25 foot duct

CVF 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

Applications

- Boiler Work
- Manhole Entry
- Telecommunications
- Construction & Maintenance
- Electrical Transformer Repair
- Tank Cleaning



8" CVF Canister Fan
CVF-15ACAN
SP[®] CE
C_{US}



CVF Saddle Vent[®]
Ventilation Kit
CVF8A15KIT
SP[®] CE
C_{US}

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



8" Axial Fan
CVF-8EXP



For Use In
Hazardous
Locations



8" Axial Fan
CVF-8X220



8" Axial Fan Kit
CVF15CANEX



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

The CVF Explosion-Proof Axial Fan is designed for use in hazardous locations and designed to provide fresh air for confined space ventilation. The conductive explosion-proof fan, CVF-8EXP, is certified by CSA for sale in the US and Canada for hazardous locations including gas and dust applications. Model CVF-8X220 is ATEX and IECEx certified by Intertek for use in gas locations only.

8" CVF 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, plug not included. 23 lbs.
CVF-8X220	220 VAC, 1/3 HP, 50/60 Hz, ATEX/IECEx approved, 10 meter power cord, plug not included. 24 lbs.

Plug sold separately. No additional labor charge for installation prior to shipment.

8" CVF Explosion-Proof Canister Fans and Canisters

Item No.	Description
CVF15CANEX CVF25CANEX	CVF-8EXP fan, 15 foot conductive duct with conductive canister, plug not included. CVF-8EXP fan, 25 foot conductive duct with conductive canister, plug not included.
	Conductive Duct Canister Only - Fits 8" CVF Fans
CVF-CND15	Conductive duct canister with 15 foot conductive duct
CVF-CND25	Conductive duct canister with 25 foot conductive duct

Plug sold separately. No additional labor charge for installation prior to shipment.

8" CVF 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

Plug sold separately. No additional labor charge for installation prior to shipment.

Explosion-Proof Plugs - Plug types on page 69

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 labor charge for installation prior to shipment

Applications

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



CVFEX15KIT



For Use In
Hazardous
Locations



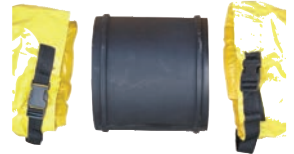
Ventilation Ducting & Accessories



Standard Duct



Conductive Duct with Ground Wires



8" Duct to Duct Connector SVH-88C



8" Conductive Duct to Duct Connector SVH-88CND

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

Ducting Specifications

- Standard duct yellow vinyl polyester
- Conductive duct black vinyl polyester
- 8" & 12" diameter with external wear strips – custom sizes up to 36" diameter available
- Reinforced internal steel wire hoop – 5" pitch
- 6" long attachment cuff, 8³/₈" or 12³/₈" diameter, with adjustable belt straps on both duct ends
- 12" steel ground wire on both duct ends (conductive duct only)
- 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-DC1225

Duct to Duct Connector

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

4 Mil Lay Flat Disposable Ducting

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



8" Lay Flat Disposable Ducting SVH-LF8



Custom Duct Transitions

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

Electric Ventilation Heaters



Ventilation Heater
SVF-15KW-8

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

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

- Heaters operate with blower or fan only
- 8" inlet and exhaust flanges
- Aluminum frame with control box
- Automatic start with blower running
- Built-in safety pressure switch
- Automatic thermal shutdown at 170°F
- 144°F output at exhaust, 112°F with 15 foot duct
- Order 3 foot heater connect duct (SVF-H70-3)



Ventilation Heater
SVF-7KW-8

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

Ventilation Heater - 8" Duct Flange

Item No.	Description
SVF-7KW-8	8" Electric ventilation heater, 7kw, 230/1 VAC, 28 amps, 23,900 BTU - 30 amp plug
SVF-10KW-8	8" Electric ventilation heater, 10kw, 440/3 VAC, 15 amps, 34,145 BTU - user wired
SVF-15KW-8	8" Electric ventilation heater, 15kw, 440/3 VAC, 26 amps, 51,216 BTU - user wired
SVF-H70-3	8" Diameter high temperature duct - 3 foot

Vent Flow™ Alarm

Meets Confined Space Ventilation Flow Loss Alarm Requirements



Vent Flow™ Alarm in Use
SVF-8ALM



Vent Flow™ Alarm
SVF-8ALM

Key Details:

- Models available for 8" or 12" blower duct (other sizes available)
- For best results, use 6 foot duct (SVH-6), to connect from blower to Vent Flow™
- 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 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

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

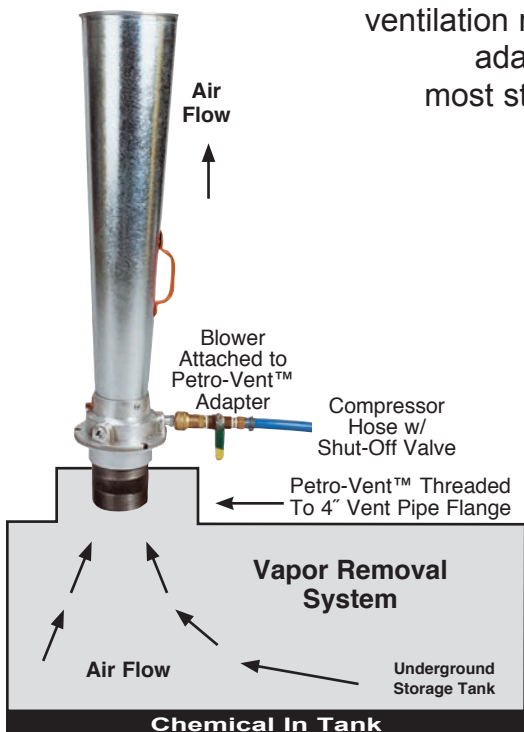
Note: Order air inlet fitting(s) separately.

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

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.



**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 Circular Jet Fan Designed for Hazardous Location Tank Ventilation



**Pneumatic Jet Fan
ASI-JF20**



Circular Pneumatic Jet Fans

Item No.	Description
ASI-JF20	Circular Pneumatic Jet Fan - 20" diameter
ASI-JF24	Circular 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

Custom Centrifugal Blowers



1.5 HP TEFC motor, 6" Intake/Outlet



1.5 HP Explosion-Proof motor, 8" Inlet/Outlet

Small Portable Pressure Blowers

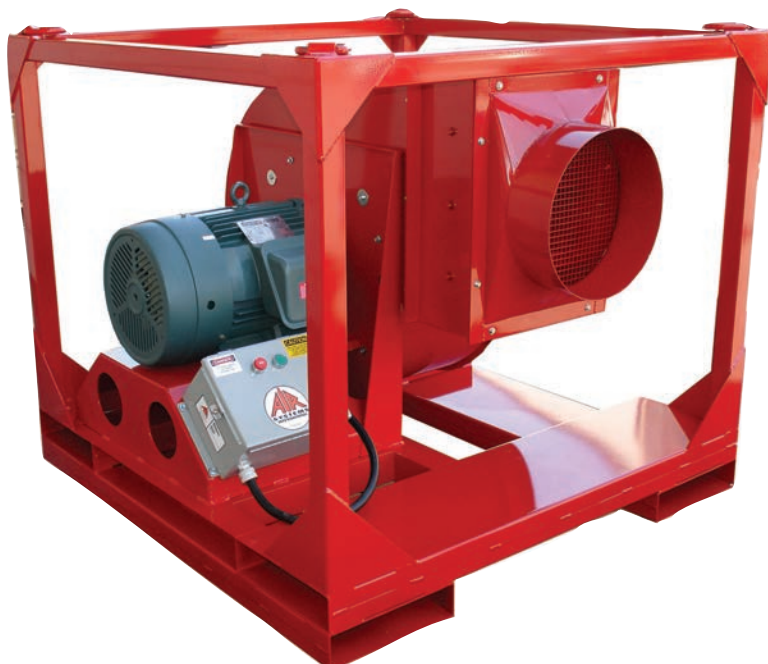
Custom small centrifugal blowers are designed for delivering high air pressure up to 6" WG and air flow up to 750 cfm. Portable blowers have dual handles for easy transport, and deliver positive or negative air flow while removing dust and/or gases for long distances. All blowers have aluminum non-sparking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

Options for Small Portable Custom Blowers:

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

Ordering a Custom Blower:

Contact Customer Service to determine specifications and options required. Engineering will take your information and provide a drawing, specification sheet, and a cost for you to sign and approve.



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 manifolds for ventilation in remote areas. A high pressure blower can deliver positive or negative air flow while removing dust and/or gases for long distances.

Options for Large Custom Blowers:

- Intake and output sizes, 10, 12, 14, and 16 inch
- Variable output air flow with adjustable gate
- 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)
- Specify color

Contact Customer Service to get started!

Confined Space Entry Carts

Easily Customized for Any Work Site



**Confined Space Cart
(cylinder sold separately)
CSC-3072P**



Confined Space Cart holds dual 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!



**Breathing Air Assembly
CBA2-346NB**

Key Details:

- Galvanized steel cabinets, rated to carry 1,200 lbs.
- Steel cart base with steerable front end
- 3 cabinet design with shelving; 2 each 14” deep, 1 each, 28” deep
- 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
- Dimensions 30” W x 72” L x 48” H Weight: 515 lbs.

Confined Space Entry Carts & Accessories

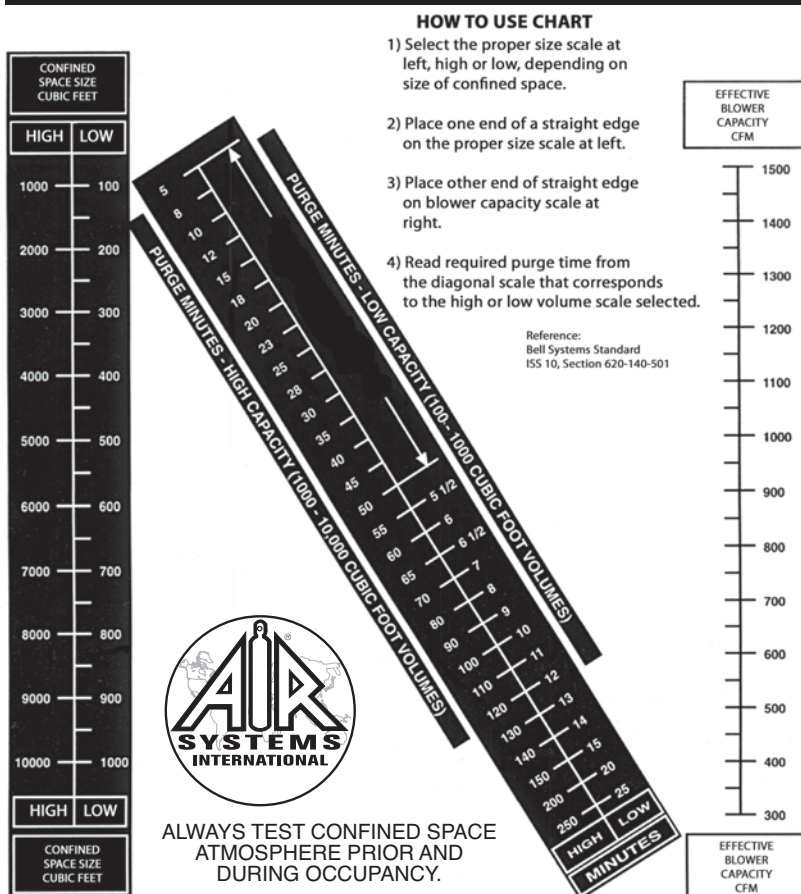
Item No.	Description
Confined Space Entry Carts	
CSC-3072	Confined space cart with 10” semi-pneumatic tires. Order cylinders separately.
CSC-3072P	Confined space cart with 10” pneumatic tires. Order cylinders separately.
Breathing Air Assemblies	
CBA2-346NB	2 cylinder breathing air assembly - 2400 psi. Order cylinders separately.
CBA2-347NB	2 cylinder breathing air assembly - 4500 psi. Order cylinders 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



Confined Space Ventilation Safety Tips

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

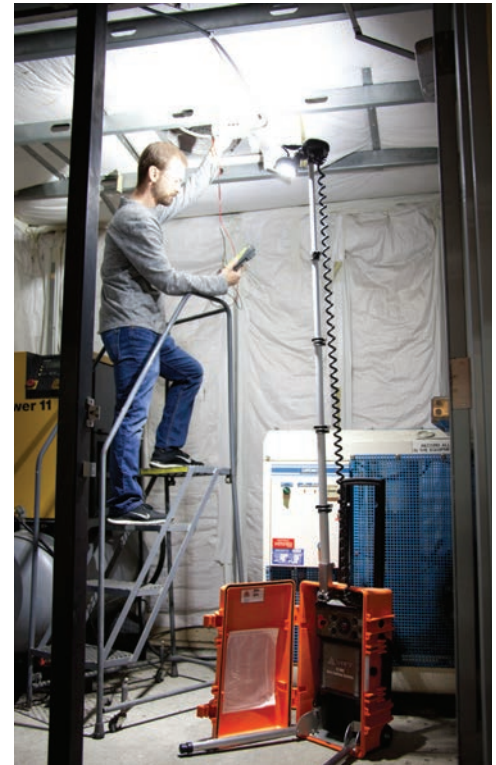
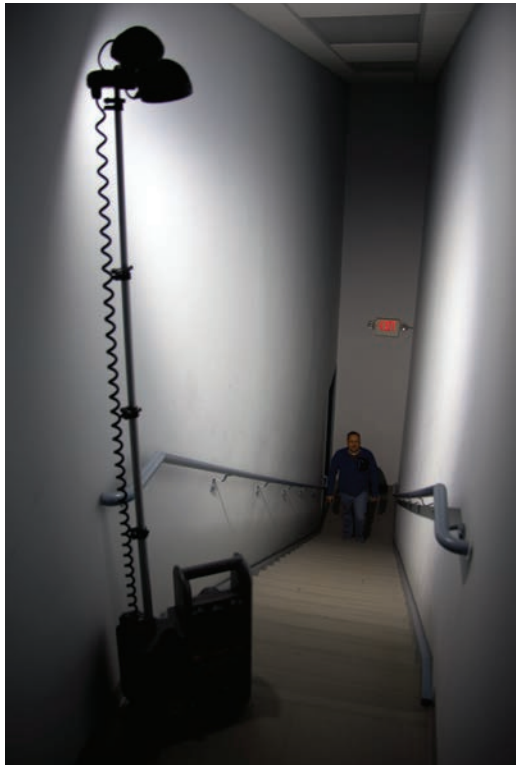
Confined Space Entry - Do it Right the First Time! ESTIMATING APPROXIMATE PURGE TIMES



The Conductive Saddle Vent® Ventilation System

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

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



Air-Light®

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

- For use in ALL WEATHER CONDITIONS AND TERRAIN!
- IP54 rated for dust protected and water splashing
- Internal battery can be charged from external 12 VDC or 110-240 VAC power sources and the Air-Light® can operate while charging
- Power port socket for charging of internal battery or powering external accessories such as cell phones, laptops, handheld lights, or any device utilizing 12 VDC power - all charging cables supplied
- Operate/charge with clamp style jumper cables
- Unit delivered fully assembled in a roller case with handle
- Unit deploys/stows rapidly without the use of tools and folds to fit within the integral case
- Stainless steel legs extend up to 33"
- Operational in sustained 35 mph full frontal winds, 65+ mph rear winds
- Aluminum mast extends from a range of 30" - 87" above ground
- Dimensions closed: 14" W X 10" D X 21.5" H
- Weight: 44 lbs.

Air-Light® Applications

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



Fully
Extends
to 87"
Tall



Temporary or Emergency Lighting

9800 Lumen LED Area Light



Air-Light® 8600
AL8600BP
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.

- For use in ALL WEATHER CONDITIONS & TERRAIN!
- 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 sealed 35 amp hour AGM lead acid battery
- 12 VDC power port for charging - all charging cables supplied
- Vehicle Jumper Connection Posts
- Digital push-to-test voltage meter
- 18" stainless steel collapsible legs retract for storage
- Legs extend to provide stable tripod base
- Independent light on/off switches
- Amber LED flasher light, on/off switch
- Cord Storage in Front & Rear Pockets
- Dimensions: 17" W X 8" D X 26" H
- Weight: 44 lbs.

Air-Light® II Applications

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

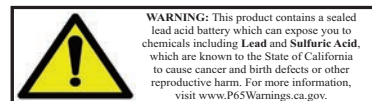
**Designed For Use
In Any Weather!**



**Fully Extends to
8' (96") Height**



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



DC Powered Portable Area Lighting



**Air-Light® 4K
AL4KBP
4000 Lumens**

**LIFETIME
WARRANTY ON
LIGHT HEADS**



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

The Air-Light®

Item No.	Description
AL4KBP	Air-Light® 4K LED light, 4000 total lumens
AL8600BP	Air-Light® 8600 LED light, 9800 total lumens

All models include 22 amp battery, internal 3 amp battery charger and charging cables

The Air-Light® II

Item No.	Description
AL2-4K-35	Air-Light® II 4K LED light, 4000 total lumens
AL2-7-35	Air-Light® II XP LED light, 7400 total lumens
AL2-86-35	Air-Light® II 8600 LED light, 9800 total lumens

All models include 35 amp battery, internal 3 amp battery charger, and charging cables

Charging Cords - Replacement

Item No.	Description
LP-PC-DE	Dual end power port connector cable - 8 foot
C7-PC-USA	DC charge cord to AC - United States - 8 foot



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



7400 Lumen
2 Light Heads



9800 Lumen
2 Light Heads

Air-Light®



22 Amp Battery

1 Head Operating

14+

2 Heads Operating

7+

Run Hours

Configuration
not offered

1 Head Operating

7+

2 Heads Operating

4+

Air-Light® II



35 Amp Battery

1 Head Operating

25+

2 Heads Operating

14+

Run Hours

1 Head Operating

10+

2 Heads Operating

5+

1 Head Operating

9+

2 Heads Operating

5+

Light Head Configurations Available



4000 total lumens
2 Lights per Unit
2 amps, 24 watts



7400 total lumens
2 Lights per Unit
5.8 amps, 70 watts



9800 total lumens
2 Lights per Unit
6.65 amps, 80 watts

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



Welding Fume Extractors

Fume-Air™ 750

Designed for Heavy Duty, Long Duration Welding

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

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



Fume-Air™ 750
PFE-750-8

Key Details:

- Steel Cabinet
- 115 VAC motor, 12.5 amps
- HEPA Filter, 99.97%, UL-586 approved, DOP Tested 1000 cfm flow rate - supplied standard
- 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
- Filter change indicator
- 24" x 24" x 1" pre-filter pad and holder
- Lift-up filter door for easy access filter change
- 5" Heavy Duty Casters
- Size: 27" W X 40" D X 32.5" H
- Weight: 307 lbs.



Fume-Air™ 750 Filter Set-up



Fume-Air™ 750

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

Filters & Accessories

Item No.	Description
PFE-2412HF	HEPA filter, 24" x 24" x 11.5"
PFE-2424PF	Pre-filter pad, 24" x 24" x 1", package of 10
PFE-2424C	Charcoal impregnated pre-filter pad, 24" x 24" x 1", package of 10

Portable Welding Fume Extractors

Fume-Air™ 230

Designed for Light Duty, Short Duration Welding



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

Key Details:

- 2 each, 115 VAC, 800 watt vacuum motors with 15 amp overload protector
- Final stage HEPA filter, 99.97% at 0.3 micron
- 70 dbA noise level at 3 feet w/ built-in noise suppressor
- 230 cfm flow rate - variable speed
- Dual handle assembly
- Two (2) pleated intermediate filters
- Four (4) stage filtration
- Stainless steel spark screen
- Removable slag tray
- Size: 28.5" L x 15" H x 18.5" W
- Weight 57 lbs.



Fume-Air™ 230

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

Filters & Accessories

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



Fume-Air™ 230 Filter Set-up

HEPA Filtered Vacuums



AV-4POLY



AV-2



AV-5



AV-15



Hazardous material vacuums are equipped with a HEPA filter system consisting of a certified HEPA filter, a double layer intermediate micro filter, and a totally enclosed 2-ply disposable paper bag filter. The HEPA filter is made of high strength microfibred glass paper separated by corrugated aluminum sheeting that is entrapped in a steel screen. All HEPA filters are rated with a minimum efficiency of 99.97% at 0.3 microns and tested using the HOT DOP method @ 100 cfm, UL 586 certified, maximum 1" resistance. Models AV-2 and AV-15 motor heads are provided with a remote exhaust port for 1½" or 2" hose. All motors have a 2 year warranty. All Certified HEPA filters meet or exceed the following standards: IEST-RP-CC007; UL-586; MILF-561079; ANSI-2-92.

All Electric HEPA Vacuums Include:

120 VAC, 60 Hz, 2 stage by-pass motor, HEPA filter, 94 - 115 cfm, 84" - 110" water lift, 30 foot power cord with plug. **Also includes:** 10 foot hose (1½"), HEPA filter, intermediate pre-filter, 2-ply disposable paper filter bag, and tool kit (5 foot curved steel wand, 10 foot vacuum hose with end cuffs, crevice tool, inlet swivel connector, and hard floor brush).

2 to 15 Gallon Electric HEPA Filtered Vacuums

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

Vacuum Accessories

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

55 Gallon HEPA Vacuums

Item No.	Description
AV-55	Electric motor 55 gallon drum lid assembly with HEPA filter, 1½" hose connection, hose, and 2.3 HP - 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, all ground wires connected

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



Pneumatic HEPA Filtered Vacuums

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

Includes: Stainless Steel tank, pneumatic motor, 10 foot (1½") vacuum hose with cuffs, wheel kit, and accessory tools.

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

Conductive Pneumatic HEPA Vacuums

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

Includes: Stainless Steel tank, pneumatic spark free vacuum motor, 10 foot (1½") conductive vacuum hose with cuffs (grounds to tank), motor head, grounding wire, wheel kit, and all aluminum non-sparking tools.

Key Details:

- 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-2B	Paper recovery bags, 2 gallon - package of 5
AV-2H	HEPA filter (99.97% UL), 2 gallon - package of 1
AV-4B	Paper recovery bags, 4 gallon - package of 5
AV-5B	Paper recovery bags, 5 gallon - package of 5
AV-5H	HEPA filter (99.97% UL), 5 gallon, fits AV-5 Series - package of 1
AV-5I	Intermediate filter, fits AV-2 and AV-5 Series - package of 2
AV-15B	Paper recovery bags, 15 gallon - package of 5
AV-15H	HEPA filter (99.97% UL), 15 gallon, fits AV-15 & 55 Series - package of 1
AV-15I	Intermediate Filter, 15 gallon, fits AV-15 & 55 Series - package of 2

Accessories - 1½" Hose

Item No.	Description
AV-H10	Vacuum hose 1½", 10 foot with cuffs
AV-H10CND	Vacuum hose, 1½", conductive, 10 foot, with cuffs
AV-H50	Vacuum hose, 1½", 50 foot with cuffs
AV-C1	1½" hose cuff
AV-103	Plastic crevice tool, 11", fits 1½" hose
AV-100	Curved aluminum wand, 54", fits 1½" hose
AV-6200	Floor brush, 14", fits 1½" hose
AV-6203	Water squeegee tool, 14", fits 1½" hose
AV-102	Carpet tool, 14", fits 1½" hose
AV-101	Inlet swivel connector, fits 1½" hose
AV-3RB	3" round brush, 1½" connector

Accessories



For additional vacuum accessories, please contact Customer Service.

Repair Procedure & Repair Training

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

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

To contact the Repair Department or obtain a Return Authorization:

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

and ask for Amber or our Repair Services Department

Email: repairs@airsystems.com

To arrange repair training at Air Systems, contact Amber.

Repair Services Offered

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



Understanding Quick Connect Fittings

Air Systems offers standard 1/4" Hansen style Industrial Interchange brass or 1/4" Schrader Twist Lock style fittings on most of our products. The plug on the end of the respirator **MUST** be compatible on the hose or they will not connect. **For example, Hansen 1/4" Industrial Interchange plug only fits into a 1/4" Hansen Industrial Interchange Socket.**

Fitting - can refer to either a Plug or a Socket

Plug - Commonly referred to as the male end.



Hansen Style Plug
Male Threads



Hansen Style Plug
Female Threads



Schrader Style Plug
Male Threads



Schrader Style Plug
Female Threads

Socket - Commonly referred to as the female end.



Hansen Style Socket
Male Threads



Hansen Style Socket
Female Threads



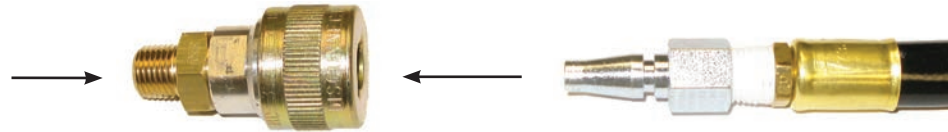
Schrader Style Socket
Male Threads



Schrader Style Socket
Female Threads

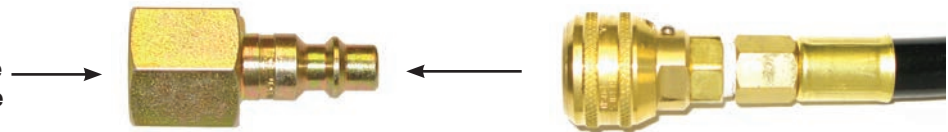
MPT (Male Pipe Thread) - Threads on the outer body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2", or 3/4" pipe thread. A fitting with male pipe threads (MPT) can only mate to fitting with female pipe threads (FPT) of the same pipe thread size.

The male end will only thread to female pipe threads of the same size



FPT (Female Pipe Thread) - Threads on the inner body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2", or 3/4" pipe thread. A fitting with female pipe threads (FPT) can only mate to fitting with male pipe threads (MPT) of the same pipe thread size.

The female end will only thread to male pipe threads of the same size



"Nominal" - A plug and socket must both have the same "nominal size" in order to mate together properly.



When "coupling" a plug and socket together, only the "nominal" diameter size must be the same; thread sizes may differ. When trying to attach a plug or socket to another device, the thread size must match and if the fitting has male threads, the part being connected to must have female threads and visa versa. There are a large number of companies manufacturing quick connect couplings. Hansen, Schrader, Parker and Foster are a few of the more popular manufacturers.

Quick Connect Couplings



Almost all manufacturers make an industrial interchange style. A 1/4" industrial interchange from Hansen will be compatible with a 1/4" industrial interchange from either Parker or Foster. If a customer states they are in need of a Foster fitting, ask if it is a Foster Schrader or Foster Hansen style. We can cross reference additional fitting types; please provide part numbers imprinted on the socket or plug.

Reference

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

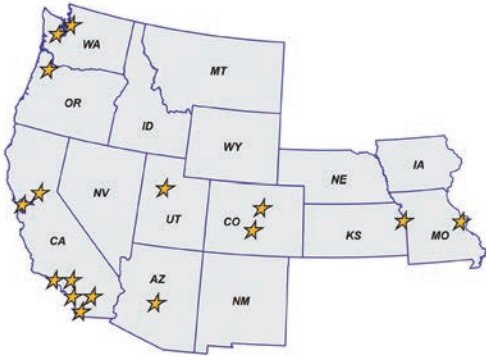
Buyer shall not use the name, pictures, logo, or other marks of Air Systems, or any abbreviation thereof in any manner, including, but not limited to, advertising, trade display, or public statement, or for any commercial purpose without the prior written consent of Air Systems, which consent may be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

Factory Representatives

Air Systems is proud to work with the following Factory Representative Groups:

United States

For a listing of Distributors by state, please visit www.airsystems.com and click on the Distributor Locator Link. Factory Representatives are listed at the top of each state page.



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www.pacesettersales.com

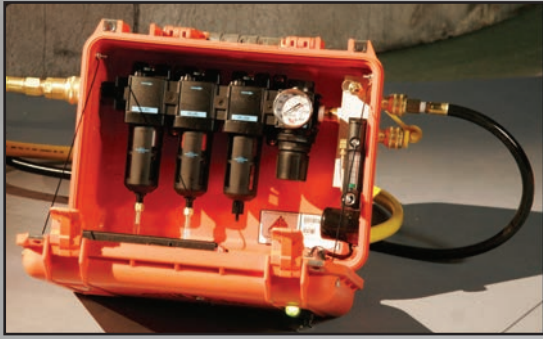
Mexico and South America

Factory Representative Vendedores de Fábrica Para Centroamerica, México, Sudamérica Safety Sales International, LLC

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

For other locations, please contact Customer Service



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