

Breathing Air Distribution System Filtration Box



Portable Grade-D filtration system provides breathing air for up to four air-line respirators

The Breathing Air Distribution System filtration box is housed in a rugged polymer case. It is equipped with three-stage filtration, a pressure regulator, a four-outlet manifold and a continuous flow 115 VAC carbon monoxide monitor. The filtration box may be used in a portable or stationary position.

Features:

- 】 Two models of filtration boxes are available – one box provides 50 cubic feet of air per minute and a second provides 100 cubic feet of air per minute.

Three-stage filter:

- 】 First-stage particulate/ bulk liquid separation filter element
 - Filter Change Indicator changes from green to red color
 - Removes 95% of bulk particulates and liquids at 5 microns
 - Auto drain removes liquids from bowl
- 】 Second-stage oil-coalescing and ultra-fine particulate filter element
 - Filter Change Indicator changes from green to red color
 - Removes oil and particulates to 99.99% at 0.01 micron
 - Auto drain removes liquids from bowl
- 】 Third-stage activated charcoal filter element
 - Filter Change Indicator changes from green to red color
 - Removes organic vapors, odors and tastes
- 】 Pressure regulator and gauge operate in 1-125 psi range.
- 】 Four-outlet manifold – available with four outlet fitting options.
- 】 Carbon monoxide monitor continuously monitors for carbon monoxide in the breathing air. The monitor operates on 115 VAC and has two 9 VDC batteries for the carbon monoxide sensor and to act as back-up in the event of an AC power failure.
- 】 Protective case is constructed of a corrosion-resistant polymer.

Filtration Boxes

For use in the United States (Carbon monoxide monitor set at 10 ppm)

P/N	Description
10107538	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with union adapters
10107814	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Snap-Tite aluminum quick disconnects
10107812	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Foster Steel quick disconnects
10107819	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Hansen Brass quick disconnects
10107539	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with union adapters
10107816	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Snap-Tite aluminum quick disconnects
10107817	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Foster Steel quick disconnects
10107818	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Hansen Brass quick disconnects

Filtration Boxes

For use in Canada (Carbon monoxide monitor set at 5 ppm)

P/N	Description
10113347	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with union adapters
10113349	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Snap-Tite aluminum quick disconnects
10113348	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Foster Steel quick disconnects
10113346	50 CFM Filtration Box four-outlet, carbon monoxide monitor, with Hansen Brass quick disconnects
10113345	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with union adapters
10113343	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Snap-Tite aluminum quick disconnects
10113342	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Foster Steel quick disconnects
10113344	100 CFM Filtration Box four-outlet, carbon monoxide monitor, with Hansen Brass quick disconnects

Replacement Parts and Accessories

Description	50 CFM	100 CFM
Filter Change Kit, First Stage	10107545	10107541
Filter Change Kit, Second Stage	10107546	10107742
Filter Change Kit, Third Stage	10107544	10107543

Breathing Air Distribution Air Supply Hoses (1/2 inch I.D.) for inlet ports – From plant air system to filtration box

P/N	Description
10113330	Hose, 50 feet, Industrial Interchange Connections, 1/2 inch NPT male and female
10113341	Hose, 100 feet, Industrial Interchange Connections, 1/2 inch NPT male and female
10113328	Quick-Disconnect Socket, Hansen Industrial, 1/2 inch male NPT
10113329	Quick-Disconnect Plug, Hansen Industrial, 1/2 inch male NPT
P/N	Description
10108138	Upright support bracket, 50 and 100 CFM units
10107741	Remote audible alarm with mounted visual strobe and guard, includes 50 ft. cable and 9-12 VDC
10107527	Calibration Kit (<i>for U.S. models</i>), 20 ppm CO, zero air, regulator and case, 17-liter size
10107526	Calibration Kit (<i>for Canadian models</i>), 10 ppm CO, zero air, regulator and case, 17-liter size

Filtration Box Dimensions and Weight

50 CFM Filtration Box

Size: 23.5" L X 16.75" H X 8.5" D

Unit weight: 24.6 pounds

Maximum air flow:

50 scfm @ 110 psi

100 CFM Filtration Box

Size: 26.25" L X 20.75" H X 9" D

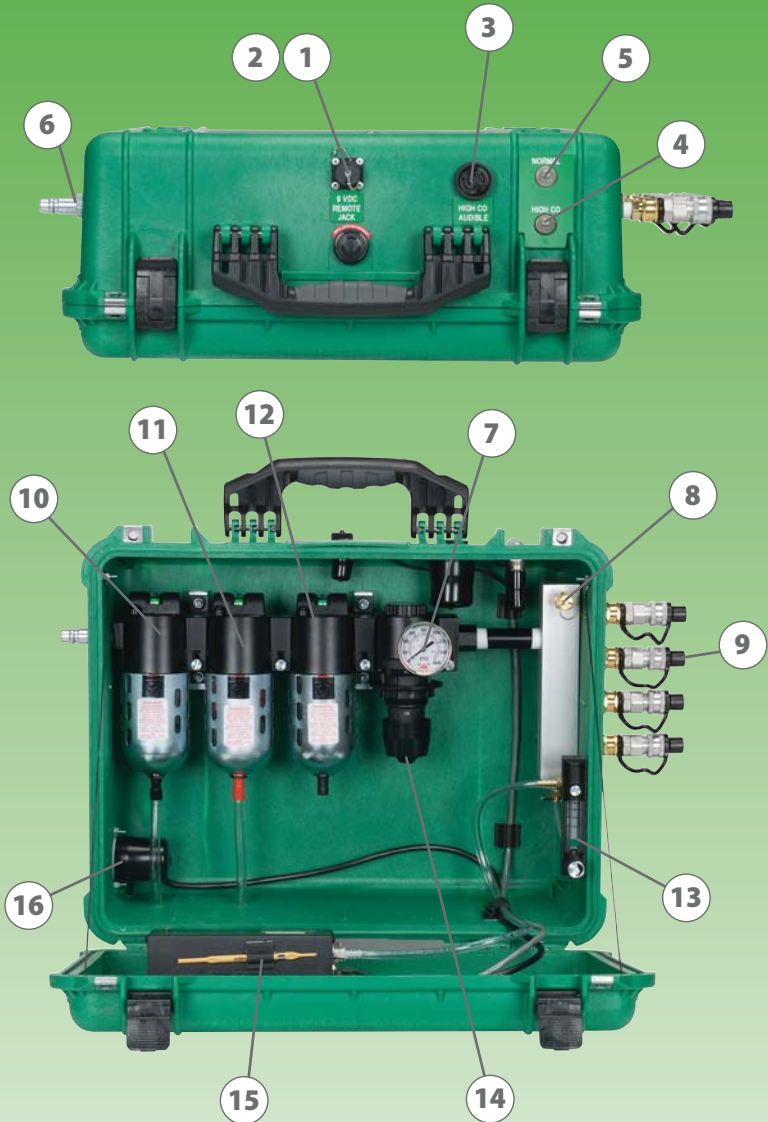
Unit weight: 38.8 pounds

Maximum air flow:

100 scfm @ 110 psi

System Components

- 1 Remote alarm jack
- 2 Jack cover
- 3 CO audible alarm
- 4 High CO indicator
- 5 Normal CO indicator
- 6 Air inlet
- 7 Outlet pressure gauge
- 8 125 psig relief valve
- 9 Outlet connections
- 10 First stage filter assembly
- 11 Second stage filter assembly
- 12 Third stage filter assembly
- 13 Flow meter
- 14 Pressure regulator
- 15 CO monitor
- 16 115 VAC connection



Online interactive training with testing for the Filtration Box, as well as other MSA products and applications, can be found at <http://msau.msanet.com>.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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