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 particulate and liquids @ 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 9VDC 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.

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**.

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Filtration Boxes

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
10107813	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
10107815	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

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, 20 ppm CO, zero air, regulator and case, 17-liter size
10107526	Calibration Kit, 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
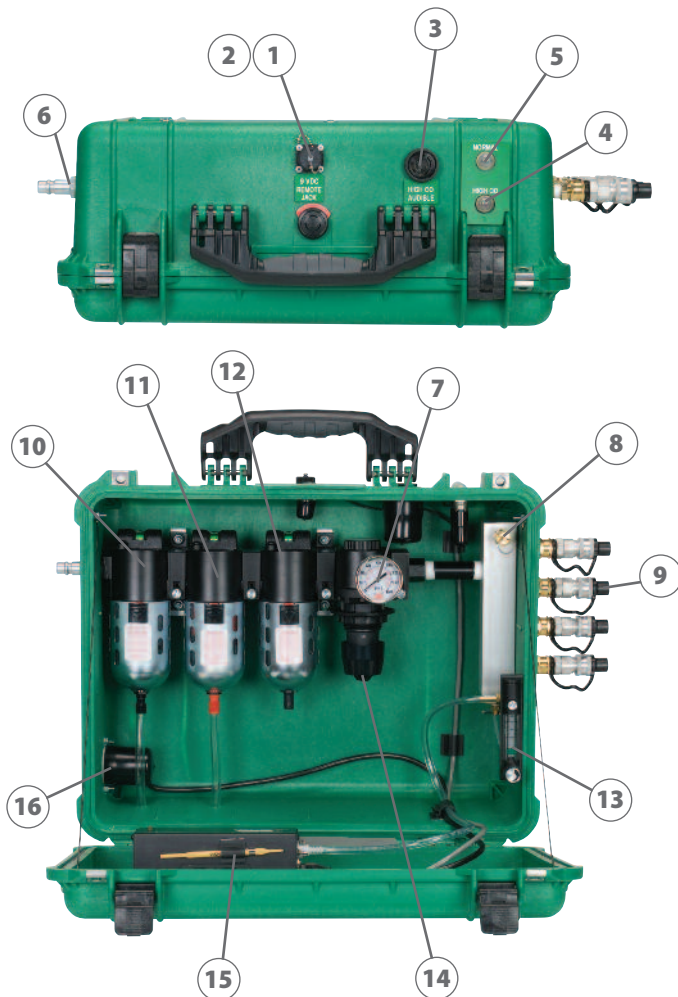**Unit weight:** 24.6 pounds
Maximum air flow:
50 scfm @ 110 psi

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

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