

# AFS-100

## Air Filtration System for Compressed Breathing Air and Supplied-Air Respirators



### PRODUCT HIGHLIGHTS

- Designed for ensuring Grade D breathing air when equipped with available CO/O<sub>2</sub> monitor
- Two-stage prefilter/coalescer removes oils, water and solid particles
- 100 CFM capacity with 5 outlets for connection to supplied-air respirators
- Adsorber removes unpleasant odor and taste
- Compatible with a variety of ENMET carbon monoxide and oxygen monitors
- System is provided with wall-mount brackets

AFS-100 is a compact compressed breathing air filtration system that removes oil, water, solid particles and odors from a compressed air system. AFS-100 system incorporates a unique three-stage filtration concept which utilizes a prefilter, high-efficiency coalescer filter and charcoal adsorber element. The compressed air system is connected to the AFS-100 through the 3/4 inch inlet port with a maximum pressure of 230 psi. The air passes through the prefilter/coalescer, a two-stage filtering device, which removes oil, water, and solid particles from the compressed air. The prefilter extends the life of the coalescer and adsorber filter elements. The coalescer is a high-efficiency filter that removes oil mist and fine (sub-micron) particles. Once the compressed air is filtered through the prefilter/coalescer it then passes through the adsorber filter which removes unpleasant odor and taste. Each filter includes a drain for periodically removing collected fluids in the filter bowl. The filtration system includes a pressure drop gauge that automatically indicates when the prefilter/coalescer needs to be replaced.

AFS-100 is supplied with a manifold pressure regulator and gauge for adjusting the manifold pressure. The maximum manifold pressure is 100 psi and the system includes a spring-loaded relief valve that is activated by a manifold pressure of 100 psi to prevent overpressure of components attached to the filter panel. AFS-100 manifold has a maximum capacity of 100 CFM and is equipped with five outlet ports, each supplied with a quick-disconnect that is Hansen compatible. The system provides uniform air distribution to five supplied-air respirators and a sixth quick-disconnect can be used for connecting a carbon monoxide monitor or an additional respirator.

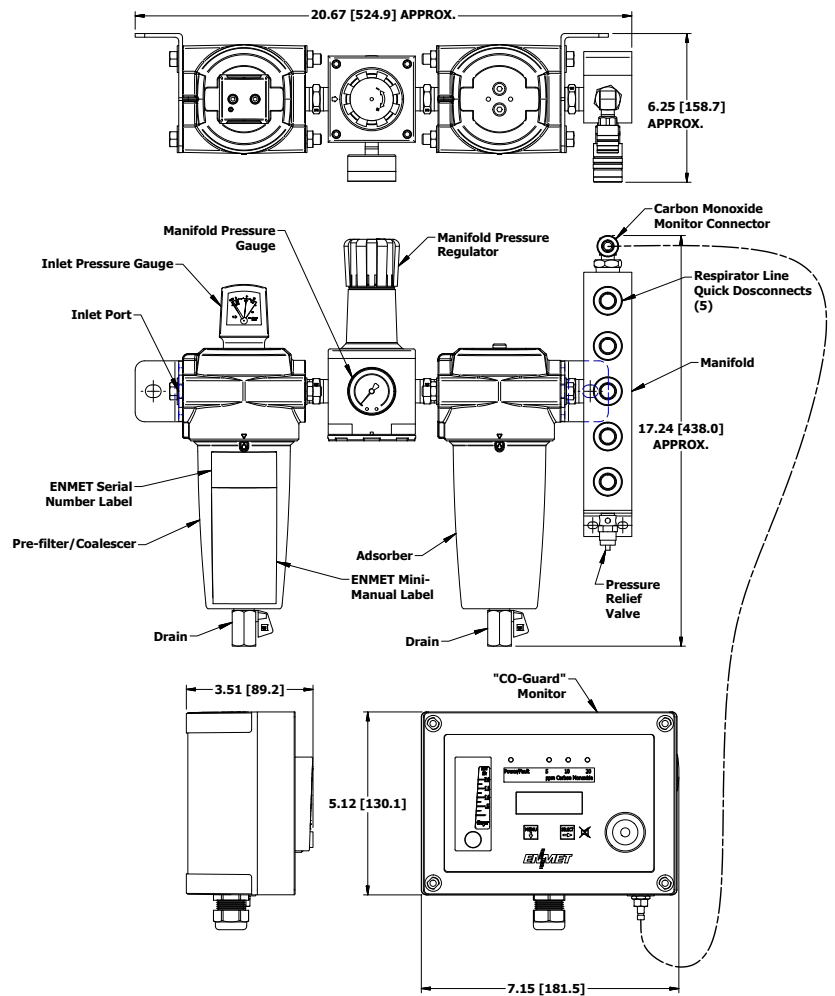
AFS-100 is designed to provide workers with high quality supplied breathing air from a compressor, when equipped with an optional CO monitor. AFS-100 is compatible with a variety of ENMET carbon monoxide and oxygen monitors.

# AFS-100

## GENERAL SPECIFICATIONS

<b>Inlet Pressure:</b>	Maximum 230 psi
<b>Manifold Pressure:</b>	Maximum 100 psi, system supplied with regulator and 160 psi gauge
<b>Pressure Relief Valve:</b>	Factory set to open at 100 psi and limits manifold pressure
<b>Total Air Capacity:</b>	Maximum 100 CFM
<b>Outlet Connection:</b>	Supplied with 5 quick-disconnects (Hansen series compatible) for connecting respirators. A sixth quick-disconnect can be used for connecting a CO/O <sub>2</sub> monitor or additional respirator
<b>Inlet Port:</b>	3/4 inch NPT, female
<b>Prefilter/Coalescer:</b>	Removes oil, water, and solid particles
<b>Prefilter/Coalescer Drain:</b>	For periodically removing collected fluids in the prefilter bowl
<b>Pressure Drop Indicator:</b>	Indicates the condition of the prefilter/coalescer element and when to change it
<b>Adsorber:</b>	Removes unpleasant odor and taste from the air system
<b>Adsorber Drain:</b>	For periodically removing collected fluids in the adsorber bowl
<b>Size:</b>	20.6 W x 17.2 H x 6.2 D inches (52.4 W x 43.8 H x 15.8 D cm)
<b>Weight:</b>	30 lbs. (13.6 kg)
<b>Options:</b>	<ol style="list-style-type: none"> <li>1. AFS-100 can be supplied in a portable cradle, with or without CO/O<sub>2</sub> monitor</li> <li>2. AFS-100 can be supplied with Schrader fittings</li> </ol>

## DIMENSIONS



AFS-100 with optional CO monitor attached

## ORDERING INFORMATION

Description	Part No.
AFS-100 Air Filtration System supplied with mounting brackets	03462-101
AFS-100 in optional portable cradle	03462-103