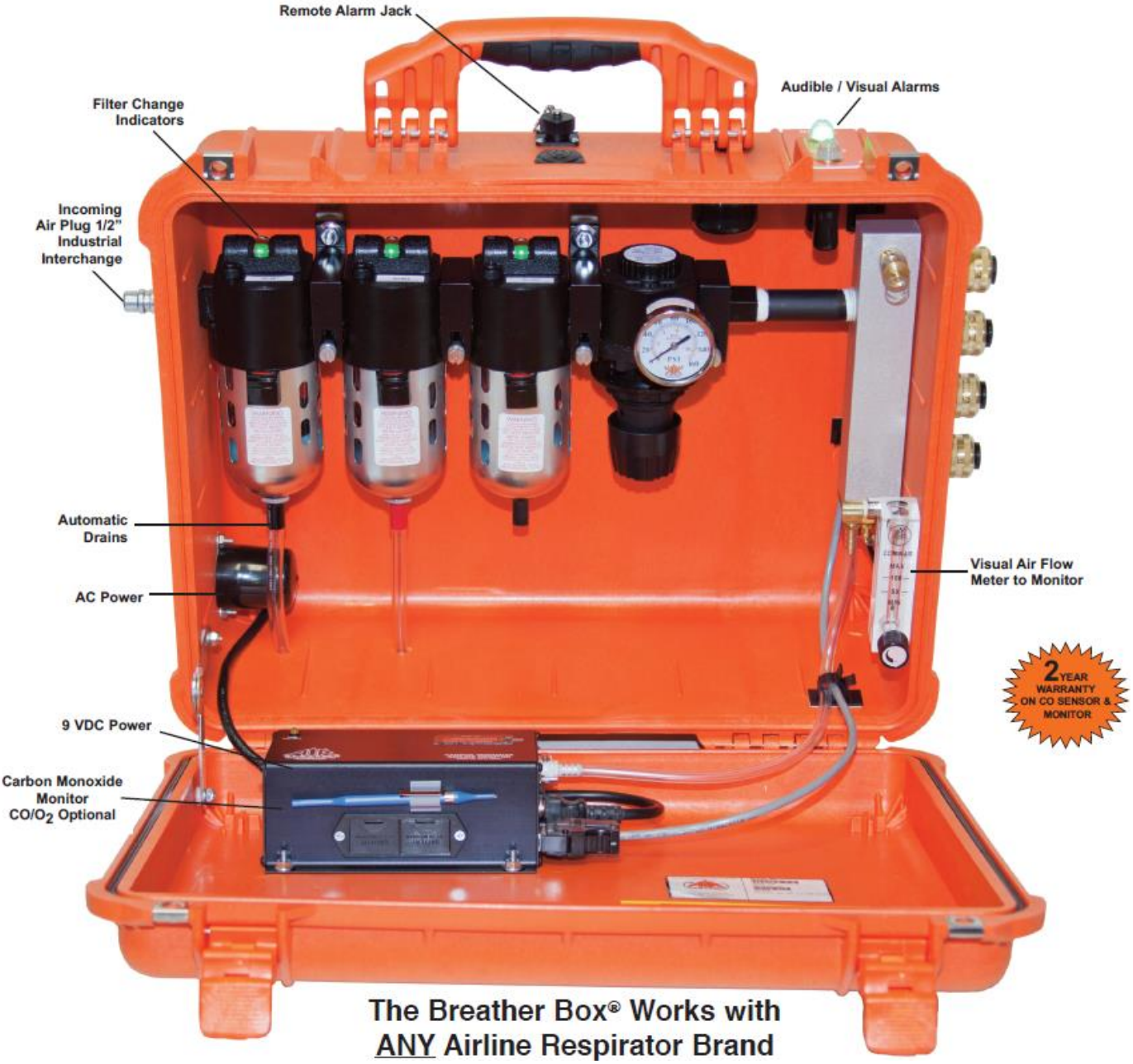
1006 Executive Blvd. • Chesapeake, VA 23320
Tel 757-548-4842 • 800-366-4341 • FAX 757-547-9597

#716028

The Breather Box

The Industry Standard in Grade-D Air Filtration

High Performance Grade-D Breathing Air Filtration Systems



Connect to a mobile or plant compressor, The Breather Box provides Grade-D breathing air for 1- 8 users (based on model) and continuously monitors Carbon Monoxide (CO).

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The Breather Box® Works with ANY Airline Respirator Brand

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.

Air Quality Must Meet or Exceed The Following Requirements:

- Oxygen: 19.5%-23.5% (20%-22% Canada)
- Hydrocarbon (condensed oil) 5 mg/m³ maximum (<1Mg/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 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

Air Systems' portable and fixed breathing air filtration systems meet or exceed OSHA 1910.134, Canadian Z180.1 Breathing Air Standards and British Standard BS-EN 12021:1999 "Respiratory Protective Devices" for Grade-D air.

NIOSH requires that each respirator wearer be supplied with 15 cfm of Grade-D Air at the manufacturer's required pressure.

Custom Filtration Models Up To 2,200 CFM

Standard Breather-Box® Models from 15 CFM to 175 CFM

Sizing a Type-C / CE Airline Filtration System

All of Air Systems' filtration products are designed to flow the NIOSH maximum amount of air a worker's respirator could demand. NEVER undersize a filtration system.

Air Consumption (CFM) and Pressure (PSI) ranges for representative types of respirators are listed below:

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.

Portable Grade-D 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

INTRINSICALLY SAFE MODELS AVAILABLE

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

CALL NORTON SANDBLASTING EQUIPMENT TODAY FOR YOUR BREATHER BOX NEEDS 757 548-4842 or Toll Free 800 366-4341
Visit us at www.nortonsandblasting.com