



Respiratory Safety

Portable Breathing Air Compressor System Grade-D Air Filtration

Issue: Pressure demand airline respirators require 70-120 psi of Grade-D breathable air per OSHA standard 1910.134. For short duration work, this pressure and air quality can be delivered by an air cylinder. For long duration work, a portable compressor and a Grade-D air filtration unit can be used to deliver Grade-D air to pressure demand respirators.

Application: 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 has twin ASME receiver tanks creating a mounting frame for the compressor. The receiver tanks allow compressor air to cool to within 10 degrees of the ambient temperature.

Recommendation: The COMP-3™ breathing air compressor system provides the entire package for operating 3 pressure demand airline respirators. The system is made up of three components: the TA-3 compressor, the 3-worker Breather Box® filtration unit, and 10 feet of ½" ID hose. The system operates on 115 VAC and requires a 20 amp service. ASME twin air tanks are supplied on a mobile platform; each tank contains a drain valve that must be opened periodically to remove water. If an electrical extension cord is used, a 10-3 gauge cord, maximum 50 feet, can be used to prevent the electrical circuit from "tripping" the electric motor. The Breather Box® should be calibrated at least once a month using calibration kit BBK-20. Up to 300 feet of respirator hose can be attached to the Breather Box® for work in remote areas. Do not operate the compressor in the vertical position as oil will be discharged into the breathing air hose and Breather Box®. **Not approved for use in hazardous locations.**



**COMP-3
Breathing Air
Package**

COMP-3™ System and Components

Description	ASI Item #
COMP-3™ Package - TA-3 Twin Air™ compressor, 3 worker Breather Box®, and connect hose	COMP-3
TA-3 Twin Air™ - Compressor only	TA-3
30 cfm Breather Box® 48 cfm flow capacity CO monitor, 3 couplings	BB30-CO3
Breathing Air Hose - 10 feet of ½" Hose	H-10-5

Calibration Kit

Description	ASI Item #
Calibration kit for CO monitor - 20 ppm CO, zero air, regulator, tubing, and hard case 17 liter size disposable cylinders	BBK-20

Compressors must be placed in a clean air environment per OSHA 1910.134

TA-3 Compressor Specifications:

- Rotary vane air compressor
- Pressure range to 110 psi output
- 2 HP electric motor, 1750 rpm continuous duty – thermally protected
- 115/230VAC 1-phase, 60Hz, 17.2 amps (Requires 20 amp service)
- Low maintenance - 500 hours between oil changes
- 10" pneumatic tires
- 50,000 hour minimum vane life
- Built-in skid plate for stair climbing
- USDA approved food grade oil in compression end
- Automatic pressure unloading - full modulation air control
- Breather Box® Grade-D air filtration package required with compressor
- Noise level below 70 dbA at 3 feet
- ASME Coded 8 gallon Twin-Air™ tank assembly, 8.5 cf air storage @ 110 psi
- ½" 5000 series Hansen style coupling outlet
- Weight: 150 lbs.



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