PURE-AIR 2000
OPERATION MANUAL

Breathing Air Filtration System
For Electric Air compressors
WARNING! - READ BEFORE USE

- Not for use with gasoline powered air compressors
- Do not use with air pressures over 175 PSI
- All maintenance and operation procedures outlined within this manual must be properly followed. Failure to do so may result in personal injury or loss of life.
- Read and understand all CO monitor instructions prior to use.
- Read and understand all respirator instructions before attempting to use this product.
- Do not put the respirator on before turning on the air.
- Do not wear supplied-air respirators in any atmosphere that the concentrations of contaminants are unknown or is Immediately Dangerous to Life or Health (IDLH).
- Selection of a supplied-air respirator must be done in accordance with American National Standard Practices for Respiratory Protection Z88.2 and the Occupational Safety and Health Statutes to which you are subjected.
- Before disassembling the Pure-Air 2000 Breathing unit for installation of replacement filter, make sure all air is bled from air lines. Shut off or deplete the air supply to prevent equipment damage or personal injury.
- This respirator system reduces, but does not eliminate exposure and inhalation of contaminants, it **DOES NOT** provide complete protection.
- If you are sensitized to paint, paint hardeners, isocyanates, epoxy, metal cutting fluid, latex, or any other material, this respirator system **WILL NOT** protect you.
- If you have ever had breathing problems while or after using or being around paint or paint hardeners, isocyanates, epoxy, metal cutting fluid, latex, or any other material, **DO NOT USE** this respirator system. It **WILL NOT** protect you.
- Failure to read, understand, and follow **ALL** warnings and instructions provided here, in the respirator users manual, and with the materials you are using (paint, epoxy, pesticides, etc.) may cause **INJURY, DISEASE or DEATH**.
- If you do not understand the instructions, and warnings **DO NOT USE** this respirator system.
- If these instructions and warnings indicate that you should not use this respirator system or that it will not protect you, **DO NOT USE IT**, even if conflicting instructions from somewhere else (your boss or a paint store, for example) indicate you can.
- **YOU** assume responsibility for any damage, injury disease, or death caused by **YOUR** failure to follow instructions and heed warnings.
Mask and air tool not included
Filtration Construction
The Filtration element in the PURE-AIR 2000 Breathing System is comprised of a unique patented carbon. This complex, yet highly effective means of filtration cleans ordinary shop compressor air of harmful contaminants and converts it to clean, grade “D” breathing air. Grade “D” air is the standard set forth by the American National Standards Institute as the minimum requirement for breathing air.

Grade “D” Air
Grade “D” is an air standard established by the ANSI/Compressed Gas Association (CGA C-7) as air suitable for breathing. Currently Grade “D: Breathing Air means that the oxygen content (v/v) must contain the amount of oxygen normally present in atmospheric air of 19.5 to 23.5 percent oxygen for synthesized air; hydrocarbon (condensed) of 5 milligrams per cubic meter of air or less; carbon monoxide of 10 ppm or less, and carbon dioxide of 1,000 ppm or less.

Connect PURE-AIR 2000 Breathing Systems to the Shop Air Compressors and effectively remove:

- Odors
- Moisture
- Oil
- Dust
- Hydrocarbons
- Certain Bacteria
- Acid Gases

Note: Air compressors must be equipped with a quality moisture removal system for proper operation.

NOTE:
During operation of the air tool, air to the respirator should not drop. If this occurs, turn the 1st stage regulator knob 1 - 2 turns to the right (clockwise) and lock down. The problem should stop.
CATCH A BREATH OF FRESH AIR

PURE-AIR 2000 Breathing Systems are economical! Change filter every six months.

NOTE: Filters may need changing sooner depending on use.

Always make sure the PURE-AIR 2000 Breathing System is connected to an air compressor that is pumping clean, dry air from an outside source.

Connections/Disconnections should always be made in a respirable atmosphere.

PURE-AIR 2000 Breathing Systems use only one air line and allow user to utilize a work line for operation of air tool.

User friendly, lightweight filtration unit attaches to belt.

90-day limited warranty for defects in materials and workmanship.
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2001-80 Exterior Case (Front & Back)

2001-65 2nd Stage Regulator

2001-83 Pressure Gauge (0-15 psi)

9700-10 1/4” Male NPT Coupler

2001-20 Barbed Orifice

2001-84 12” Vinyl Tubing

2001-50 Replacement Filter

2001-66 1st Stage Regulator

9813-21 1/4” Male NPT Plug
1. Read all PURE-AIR 2000, CO Monitor and Respirator Instructions thoroughly before proceeding. See separate CO Monitor instructions.

2. Remove PURE-AIR 2000 Unit from packaging.

3. Unit may be used on either right or left side of body, determine which side before proceeding.

4. If utilizing work line for air tools, attach to the open port on the first stage regulator. If not using work line, 1st stage regulator is not necessary. Use Teflon or similar thread sealer to ensure a maximum, air-tight seal at fittings.

5. Change intake plug at bottom of unit if not compatible to the users intake hose.

6. Slide PURE-AIR 2000 Unit on belt using slot provided on outer casing.

7. Don the belt with unit and CO monitor attached. (See CO Monitor Attachment - Page 9)

8. Turn on the CO Monitor.

**Warning:** Read and understand all CO Monitor Instructions prior to use.

9. Attach air supply line to air intake plug (9813-21) or other fitting. Use Teflon or similar thread sealer to ensure a maximum, air-tight seal at fittings.

10. Second stage regulator (2001-65) is preset @ 1 psi to supplied air respirator requirements for halfmask/fullface provided in respirator instructions.

**Note:** First stage regulator is preset and will **not** regulate air to tool port. Tool air must be regulated prior to air entering the PURE-AIR 2000 Unit or at the air tool.

11. Don respirator mask or hood according to respirator instructions.

12. Adjust breathing air to comfortable flow rate following guidelines for minimum air settings.
! WARNING!

Read and understand all respirator instructions before attempting to use this product. Do not put the respirator on before turning on the air.

Improper use of any respirator may result in personal injury or death. Improper use includes, but is not limited to, use without adequate training, a disregard for warnings and instructions and failure to inspect and maintain the respirator. Respirators are intended to be used only in conjunction with an organized respiratory protection program. These respirators are not intended for use in atmospheres which are, or may become Immediately Dangerous to Life or Health (IDLH) or in atmospheres where the identity and/or concentration of the contaminants is unknown. Pure-Air 2000 Breathing System filters must be replaced every six months.

1. PURE-AIR 2000 comes pre-set @ 1 psi (4.5 cfm) with air inlet pressure at 150 psi. (Note: High flow/large bore fitting on air inlet port).

2. If you change the fitting and install a more restrictive/small bore style. You must reset both regulators!

3. The procedure for resetting your PURE-AIR 2000 regulators is as follows:
   a. Unlock both regulator knobs and turn counter clockwise until you cannot turn any further.
   b. Turn top / 2nd stage regulator (p/n 2001-65) clockwise 3 1/4 turns.
   c. Connect respirator to coupler (p/n 9700-10).
   d. Connect air inlet hose to the 1st stage regulator plug.
   e. Begin turning 1st stage regulator (p/n 2001-66) clockwise until gauge reads 1 psi OR you have sufficient airflow to your respirator.
   f. Fine-tuning can be achieved by adjusting the 2nd stage and/or 1st stage regulator no more than 1/2 turn in either direction.

WARNING
Do not turn second stage regulator beyond 3 3/4 turns or you will break the gauge.

NOTE: If at any time you feel there is a problem or you are smelling contaminates. Please feel free to call technical assistance at (800) 262-0200.
CO MONITOR ATTACHMENT

To be performed before donning of PURE-AIR 2000 Unit.

1. Attach CO Monitor fitting (001-20) to PURE-AIR 2000 Unit air monitor port on second stage regulator. Air monitor port is on the opposite side of the PSI Gauge on the filtration unit.

2. Attach monitor tubing provided by connecting the round disk to the sensor grill with the arrow facing either long side of the Co Monitor.

3. Clip CO Monitor to belt along the side of PURE-AIR 2000 unit.

! WARNING !

1. Selection or use of any respirator must be done in accordance with American National Standard Practices for Respiratory Protection Z88.2 and the Occupational Safety and Health statutes to which you are subjected.

2. DO NOT wear supplied-air respirators in any atmosphere Immediately Dangerous to Life or Health (IDLH). Read and understand all respirator instructions prior to use.

3. DO NOT place CO Monitor next to high concentrations of carbon monoxide, (ie. automobile exhaust).

! IMPORTANT !

CO Monitor must be zero in a clean air enviroment.
**SAFETY PRECAUTIONS**

The following safety precautions are used throughout this manual and their significance is noted as follows:

**Warning** - Maintenance or operation procedures and techniques will result in personal injury or loss of life if not carefully followed.

**Note** - Maintenance or operating procedures and techniques that are considered important enough to emphasize and which are beneficial in the operation of this product.

**INSTALLING REPLACEMENT FILTERS**

! **WARNING** !

* Replace filter in a clean Air Environment. Before disassembly, make sure all air is bled from the lines. Shut off or deplete the air supply to prevent equipment damage or personal injury.

1. Remove **PURE-AIR 2000** from belt.

2. Remove six screws from back of unit, set outer case aside.

3. Using an 11/16" wrench to hold the filter cylinder, unscrew and remove both regulators from filter cylinder making sure the brass fittings on the cylinder remain intact.

4. Attach regulators to new filter cylinder and reassemble outer casing with six screws previously removed.

5. **PURE-AIR 2000** Breathing Systems are economical! Replace filter every six months.

**NOTE:** FILTERS MAY NEED CHANGING SOONER DEPENDING ON USE.

**Note:** The filter works in either direction. Use Teflon or similar thread sealer to ensure no air leakage at fittings. Use only SAS Safety replacement parts and filters.