

**Moisture or oil contamination in the air supply can prevent abrasive powder from flowing freely through your micro-abrasive blasting system. With Comco's continuous duty 'membrane' dryers your system receives clean, dry air with a minimum of maintenance.**

### Continuous Duty

The Comco AD5300 series Air Dryers combine a particulate and coalescing filter set with a membrane dryer that will ensure oil and moisture-free air for micro-abrasive blasting. Designed for continuous duty automatic operation, they provide clean dry air with a dewpoint as low as -25°F and at flow rates up to 20 SCFM depending on the model selected. Passive units, they require no external power source and are easily maintained by periodic replacement of the pre-filter elements.

#### BENEFITS

- **Energy efficient, non-electric design provides low operating costs.**
- **Continuous duty automatic operation**
- **Clean, dry air for optimal micro-abrasive blasting**
- **Minimal maintenance**

### How They Work

Pre-filters are mounted in front of the membrane dryer to protect it by removing oil, water droplets, and debris from the air supply. The air then enters the drying chamber where water vapor collects on the membrane dryers' hollow fibers. Clean dry air is supplied to the application. A small portion of the dry air is redirected back along the length of the fibers to sweep out the water vapor which has soaked into the membrane. The moisture laden vapor is vented to the atmosphere through a purge.

### Models Available

The AD5300 Series Air Dryers are available in four different models, giving you the ability to match the correct airflow with your system requirements. From our 2 scfm model for use with a single MicroBlaster®, to the 20 scfm model for heavy duty production use, Comco has a membrane dryer that will ensure you receive the clean, dry air necessary for your application. Contact your Comco sales representative today for help selecting the model best suited for your micro-abrasive blasting equipment.



### Installation

The AD5300 series dryers can be easily mounted on an existing air line, in a vertical or horizontal orientation. Your dryer comes to you pre-assembled and ready to install in the horizontal position. If vertical mounting is preferred, follow the accompanying illustration to modify the assembly, **keeping the pre-filters positioned so that the drain tubes point downward.** The flow direction through the filter and dryer must be as shown in the illustration.

All system connections and accessory outlets must be leak-tight. Apply Teflon tape to the male threads before connecting the air lines to the filter ports. Secure the mounting brackets on any flat surface using suitable wood screws or other fasteners.

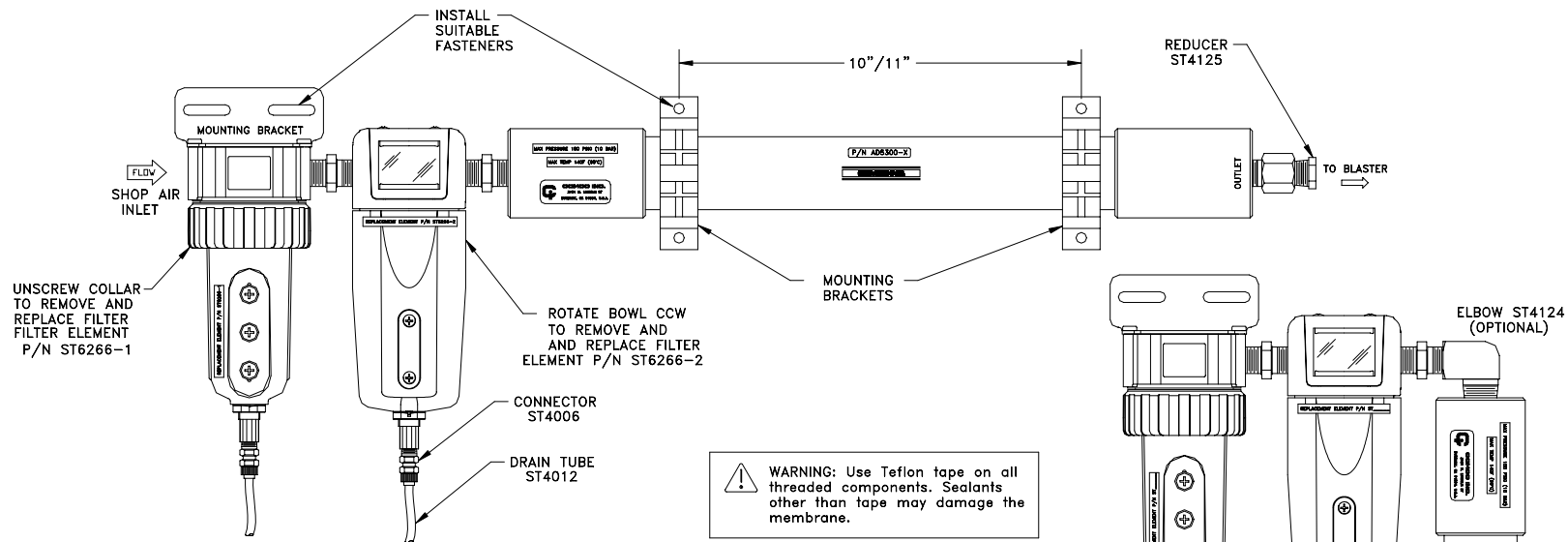
**NOTE:** Effluent from the pre-filters may contain oil, water, or other matter. Connect the small fitting and 6 feet of hose to the lower ends of the pre-filters, collect the waste fluid in a suitable container, and dispose of properly.

### Maintenance

Particulate matter trapped in the pre-filters will eventually degrade air flow. In steady, heavy use the filter elements could require changing annually. The coalescing filter's indicator will turn red when its element needs to be replaced. Replace with Filter Element Comco part number ST6266-2. The particulate Filter Element should also be replaced at this time with Comco part number ST6266-1.

Turn off the compressed air supply and depressurize the filter housings prior to performing any maintenance. Replace the filter elements by first removing the filter bowls. The particulate filter uses a locking collar and the coalescing filters bowl is a bayonet mount. Both filters elements are retained in the filter with a plastic disc located at the bottom of the element. To remove the elements unscrew the disc. Install the new filter elements in reverse order of disassembly.

**Comco Inc.** 2151 North Lincoln Street / Burbank, California 91504-3344, USA / 818-841-5500  
E-mail: [sales@COMCOinc.com](mailto:sales@COMCOinc.com) / 800-796-6626 / Fax: 818-955-8365 / [www.COMCOinc.com](http://www.COMCOinc.com)



A) HORIZONTAL MOUNTING

B) VERTICAL MOUNTING

MAXIMUM INPUT PRESSURE .....	150 PSIG
MAXIMUM VOLUME	
AD5300-3 .....	6 SCFM
AD5300-4 .....	9 SCFM
AD5300-5 .....	20 SCFM
MAXIMUM MOISTURE OUTPUT .....	80 PPM
SPACE REQUIREMENTS:	
a) 11"H x 30 1/2" W	
b) 25"H x 11"W	
SNAP-IN BRACKETS SHOULD BE MOUNTED APPROXIMATELY 10" APART.	

AD5300 SERIES AIR DRYER  
INSTALLATION