

# **AD5300 Series Continuous Duty Air Dryers**

## **Models**

The following instructions apply to all AD5300 Series Continuous Duty Air Dryer models:

- AD5300-3 Continuous Duty Air Dryer, with pre-water and oil filters. 6.0 SCFM dry air flow
- AD5300-4 Continuous Duty Air Dryer, with pre-water and oil filters. 9.0 SCFM dry air flow
- AD5300-5 Continuous Duty Air Dryer, with pre-water and oil filters. 20.0 SCFM dry air flow

## **Installation Instructions**

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.

## **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 that has soaked into the membrane causing a hissing sound. The moisture-laden vapor is vented to the atmosphere through a purge.

**NOTE:** The hissing sound is an expected effect of the air dryer removing water vapor. It does not mean your air dryer is leaking or working improperly.



## **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.

## **Capacity**

The AD5300 series Air Dryers are designed for continuous duty automatic operation. They provide clean dry air with a dewpoint of  $-25^{\circ}\text{F}$ .

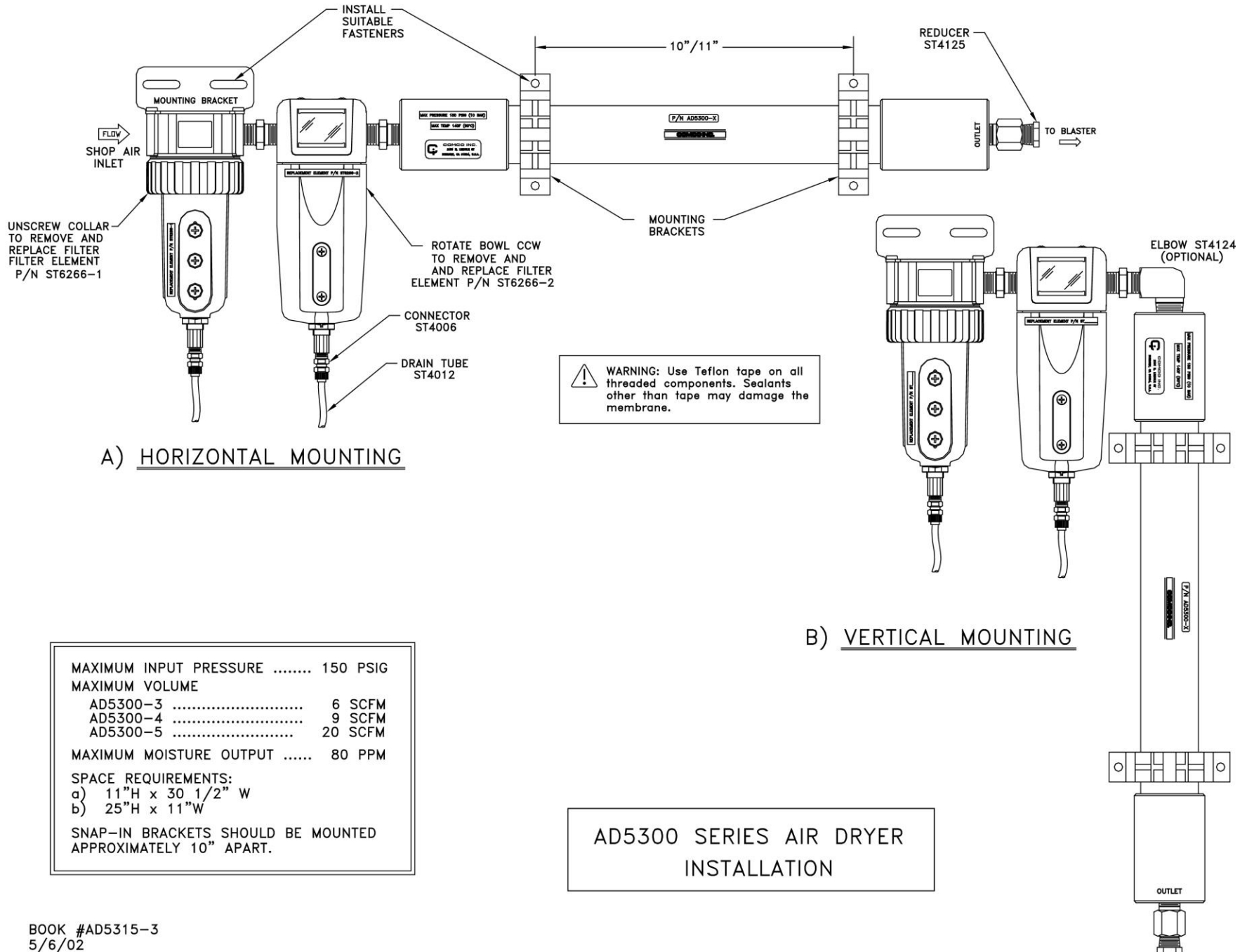
The AD5300-3 model is recommended for use with a single MicroBlaster<sup>®</sup> model abrasive machine.

The AD5300-4 model is recommended for use with a DirectFlo or PowerFlo with regular nozzles.

The AD5300-5 model is recommended for use with DirectFlo or PowerFlo with larger nozzles and where multiple blasters are used.



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A) HORIZONTAL MOUNTING

B) VERTICAL MOUNTING

**WARNING:** Use Teflon tape on all threaded components. Sealants other than tape may damage the membrane.

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