Desiccant and Continuous Duty Air Dryers

Moisture or oil contamination in the air supply can prevent abrasive powder from flowing freely through your micro-abrasive blasting system. Clean, dry shop air alone is inadequate for micro-abrasive blasting: to achieve consistent abrasive media flow, the compressed air source must have a dew point of -25°F. Air dryers are necessary to prevent moisture from causing nozzle stoppage leading to unnecessary repairs, and costly down time.

Air dryers for the occasional blaster to the continuous fully automated system

AD5100 Series Desiccant Air Dryers

A desiccant dryer is a good, low cost solution to use with Comco MicroBlaster® MB1000 series blasting machines especially when usage is low or intermittent.

The AD5100 dryer contains silica gel desiccant beads that absorb moisture to dew points as low as -25°F.

BENEFITS

- ***Low cost***
- ***Easy to install***
- ***Clean, dry air optimal for low or intermittent single MicroBlaster® use***

How They Work

First a pre-filter removes most contaminants before they reach the desiccant chamber. The air then moves on to the desiccant cartridge for final drying where the rest of the moisture is absorbed. The bead turns from orange to green as it becomes saturated, indicating time for replacement.

The life of the desiccant charge depends on the moisture and/or oil in the air, how much air is flowing through it, and how often the system is used. In damp environments weekly replacement may be necessary. Used desiccant may be reactivated if not contaminated with oil, but will not last as long as a new charge. If the desiccant becomes saturated very quickly, an automatic system should be considered.

AD5300 Series Continuous Duty Air Dryers

The Comco AD5300 series Air Dryers are designed for continuous duty automatic operation. They provide clean dry air with a dew point 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

- ***Heavy duty unit suited for industrial use***
- ***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, moisture, 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.

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Desiccant and Continuous Duty Air Dryers

AD 5100 Series Desiccant Air Dryer

Models Available

AD5100-3 Desiccant Air Dryer, with water pre-filter
AD5100-4 Desiccant Air Dryer, with water and oil pre-filters

Note: For facilities where oil may be present in the air a pre-oil filter is also required. Oil that reaches the desiccant filter will coat the beads, rendering them inactive and non-reusable.

Specifications

Maximum Input Pressure	150 PSIG
Maximum Volume	10 SCFM
Maximum Moisture Output	80 PPM
Maximum Air Dried Per Charge	4,000 CF

Space Requirements

a.) AD5100-3: 12" W x 15" H
b.) AD5100-4: 16" W x 15" H

AD5300 Series Continuous Air Dryers

Models Available

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

Note: The AD5300-3 is recommended for use with a single MicroBlaster®. AD5300-4 is recommended for use with a DirectFlo or PowerFlo with standard nozzles. AD5300-5 is recommended for DirectFlo or PowerFlo with larger nozzles or for multiple blasters.

Specifications

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.) Horizontal mounting: 11" H x 30½" W
b.) Vertical mounting: 25" H x 11" W

Air Dryers for Manual and Automated Systems

A Desiccant Air Dryer is part of the ProCenter Plus, a combined workstation and dust collector.

A Continuous Duty Air Dryer is part of the Advanced Lathe platform.

Contact a Comco sales representative today to help you decide which air dryer is best suited for your microblasting equipment!

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