

Air Desiccant Dryer

5 Stage - 3 SCFM



Particles Plus® five-stage Air Desiccant Dryer system utilizes multiple towers filled with desiccant fibrous membranes to remove moisture and oil from compressed air. The system performs a continuous process of cycles of absorption and regeneration.

Water vapor from the compressed air supply passes through the hollow fibers of the membrane. At the same time, a small portion of dry air is redirected along the length of the fibers to sweep out the water vapor which has permeated the membrane.

The moisture-laden sweep gas is then vented to the atmosphere, and clean, dry air is supplied to the application. The drying power of the membrane is controlled by varying the compressed air flow rate and pressure. The Particles Plus® Air Desiccant Dryer is designed to operate continuously, 24 hours per day, 7 days per week.

Air Desiccant Dryer: 5 Stages

- First Stage Condensate Separator with 5 micron Sintered Plastic Element and Automatic Drain
- Second Stage Filtration Assembly with Ultra High Efficiency Coalescing Particulate Filtration Element and Automatic Drain
- Third Stage Filtration Assembly with Oil Free Cartridge and Plugged Drain
- Fourth Stage Passive Membrane Dryer rated 3 SCFM guarantee 35°F dew point or better
- Fifth Stage Pressure Regulator with Pressure Gauge

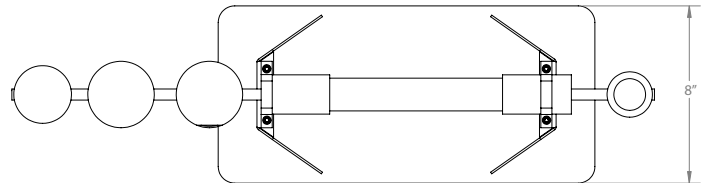
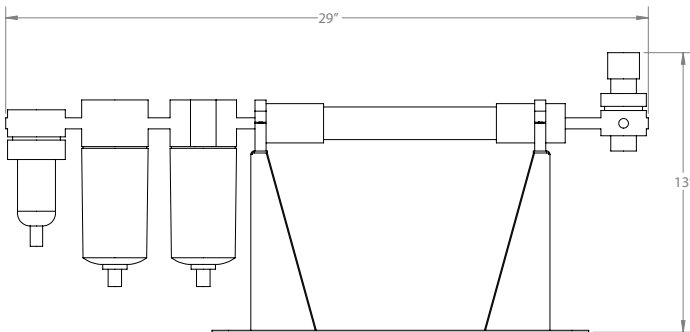
Air Desiccant Dryer: Features and Benefits

- Offer a reliable, efficient, and economical alternative to pressure swing and refrigerant dryer technologies
- Require no electricity thus lowering operating costs
- Dewpoints as low as 35°F (2°C) prevent freeze-ups
- Explosion proof
- Silent operation
- Eliminates point of use condensate discharge typical of refrigerant dryer technology



Specifications

Model	Air Desiccant Dryer
Product Flow at 100 PSIG Inlet Pressure	3 SCFM (5Nm ³ /h)
Regeneration Flow at 100 PSIG	0.5 SCFM (0.8Nm ³ /h)
Min/Max Inlet Air Temperature	40°F/120°F (4°C/49°C)
Min/Max Ambient Temperature	40°F/120°F (4°C/49°C)
Min/Max Inlet Pressure	60 PSIG/150 PSIG
Compressed Air Requirement	Regeneration Flow + Outlet Flow
Max. Pressure Drop	3 PSID (0.2 Bar)
Mountable	Benchtop
Dimensions	29" x 13" x 8" (73.6 x 33.0 x 20.3 cm)
Weight	3 lbs (1.36 kg)



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REV 20231208-AirDesiccantDryer



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