

60 SCFM Desiccant Air Dryer

Installation and Maintenance Instructions

Desiccant dryers are a convenient and cost effective means of ensuring your sensitive pneumatic applications are not exposed to damaging moisture. Compact in size, and no external power sources required, these desiccant dryers can be used almost anywhere.

When air is compressed, the temperature of the air is increased as is its capacity to hold moisture. As the hot moist air travels downstream through the lines, it cools, allowing the moisture to condense. Aftercoolers, filters, drain traps, and driplegs are effective for removing liquid condensate; however, this Desiccant Dryer is designed to remove residual water vapor and aerosols with a very adsorbant bed of silica gel beads (desiccant).

This Desiccant Dryer is designed so that as air enters the unit and passes through the desiccant any moisture is adsorbed into the pores of the desiccant reducing the moisture content (dew point) of the outlet air. When the desiccant reaches its level of saturation (if using indicating desiccant the color will change from blue to pink) the dew point of the outlet air will begin to rise. At that point the desiccant should be replaced or regenerated by heating in a drying oven.

Installation:

To insure maximum drying efficiency, always install a moisture separator/particulate style filter and a coalescing filter upstream of the Desiccant Dryer. This will increase the life of the desiccant and help prevent oil contamination. Some applications may require the installation of a 5 μ or smaller particulate filter downstream of the desiccant dryer to catch any residual desiccant dust. All Watts Desiccant dryers are individually tapped (NPT) to allow direct mounting to piping. Before installing, blow out pipe line to remove scale and other foreign matter. This unit has DRYSEAL pipe threads; use pipe compound or tape sparingly to male threads only. Install units as near as possible to the equipment being serviced in pipeline so that flow is with the arrows as indicated on faces of body.

Maintenance:

- 1.) **Important:** Depressurize dryer before servicing!
- 2.) Unscrew the metal collar holding the dryer bowl to head and remove bowl and collar.
- 3.) Dump old desiccant out of bowl.
- 4.) If the pressure drop across the dryer has become unacceptable the bronze element in bottom of bowl may have become clogged. If this happens blow air through the flow tube by placing a blow gun at the top of the tube. If element replacement is needed disassemble flow tube from bowl by removing the end cap and bottom nut from the bottom of the bowl, replace element and reassemble tube in bowl.
- 5.) Refill bowl with new or regenerated desiccant. The 60 SCFM model holds 10 lbs. of desiccant.
- 6.) Reassemble bowl to head making sure that the O-Ring in head is in place.

