

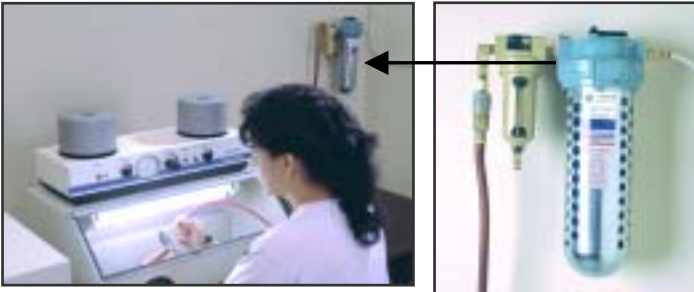
AD5100 Series

Desiccant Air Dryer

Description

For trouble-free operation, the air that mixes with abrasive media must be extremely clean and dry. A desiccant dryer is a good, low cost solution to use with Comco MicroBlasters especially when usage is low or intermittent.

The AD5100 dryer is easy to install, typically mounted near the MicroBlaster, and contains silica gel desiccant beads that absorb moisture to dewpoints as low as -25°F.



By using a pre-filter, most contaminants are removed 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 dark blue to light blue and pink as it becomes saturated, indicating time for replacement.

For facilities where oil may be present in the air a pre-oil filter is also required because oil must not be allowed to reach the desiccant filter. It will coat the beads, rendering them inactive and non-reusable.

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 can be necessary. If the desiccant becomes saturated very quickly, an automatic system should be considered.

AD5100-3 (with Water Pre-filter)
AD5100-4 (with Water/Oil Pre-filters)
Specifications:

Maximum Input Pressure 150 PSIG
 Maximum Volume..... 10 SCFM
 Maximum Moisture Output80 PPM
 Maximum Air Dried Per Charge4,000 CF

CAUTION: Air line pressure must not exceed 150 PSIG. Never clean plastic bowl with any solvent. Use soap and water ONLY.

Installation & Operation

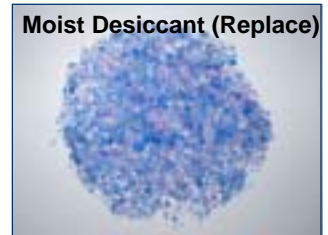
Install the dryer inline with the air source as shown in the accompanying diagram. The user should supply a shut-off valve or quick disconnect before the dryer. Air flow must be as indicated by the arrow on the dryer diagram. The air dryer assembly should be mounted close to the MicroBlaster for optimum efficiency.

If the air line is extremely wet, a water drop leg with drain valve should be installed to prolong the life of the desiccant. This will allow condensation to escape from the pipe. If there is oil or compressor lubricant present in the air line, an oil filter will increase the desiccant life. The AD5100-4 Air Dryer Assembly includes this oil filter.

As the desiccant removes water, it will start to change color. In order to maintain dry air, the desiccant must be replaced when the blue beads begin to change to pale blue with pink or clear crystals present. Never allow the desiccant to change entirely to pink or purple.



New Desiccant



Moist Desiccant (Replace)

Used desiccant may be reactivated if not contaminated with oil. Dry in a shallow pan in 350°F oven until color changes to blue. Reseal in airtight container to keep desiccant from absorbing moisture. Note: Recycled desiccant will not last as long as a new charge.



Adding/Changing Desiccant

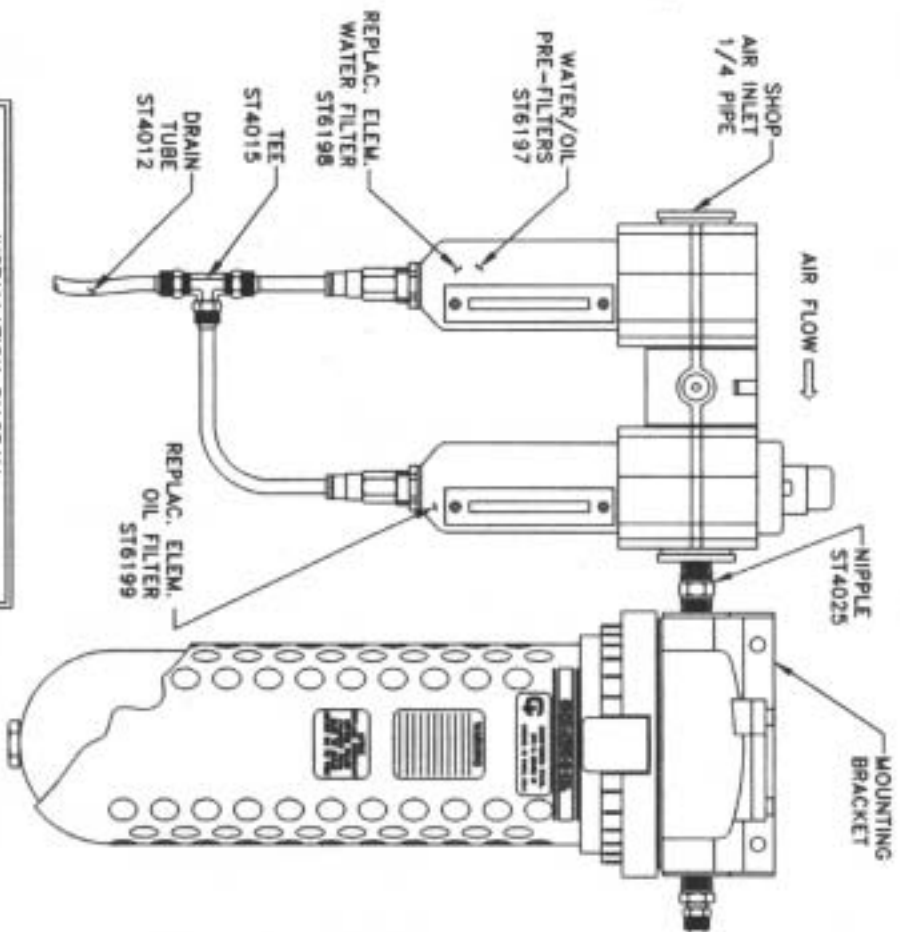
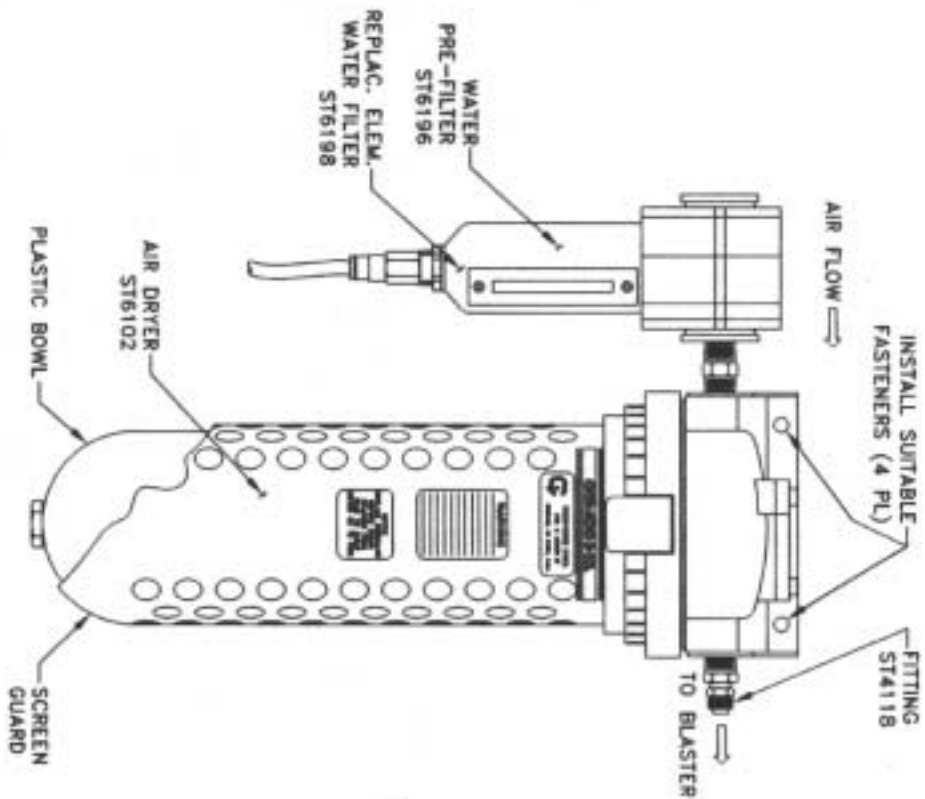
To change or add desiccant, shut off air and bleed system. Press tab on collar, twist and remove collar allowing the large bowl and guard assembly to be lowered.



After filling with fresh desiccant, reassemble by following the same steps in reverse.

AD5100-3

AD5100-4



SPACE REQUIREMENTS:

- A) AD5100-3: 12" W x 15" H
- B) AD5100-4: 16" W x 15" H

