

# **ETS Model 5465 Dry Gas Dehumidification System**

The Model 5465 Dry Gas Dehumidification System provides the user a solenoid valve, power cord, ten (10) feet of  $\frac{1}{4}$ " OD. Polytubing and mounting hardware to enable the use of a dry nitrogen tank for purging chamber humidity. The user will supply the nitrogen tank with an appropriate pressure regulator.

## **System Set-up**

1. Drill and Tap a  $\frac{1}{4}$ " NPT hole in side wall of the chamber or cabinet in which the system is to be installed.
2. Place the provided  $\frac{1}{4}$ " NPT Quick Connect fitting into the hole with the threads going into the chamber, the Quick Connect head remaining on the outside of the chamber.
3. Place the output pipe of the valve into the Quick Connect fitting.
4. Using supplied  $\frac{1}{4}$ " OD. Polytube, attach one end to the Quick Connect fitting on the 5465 flow regulator input fitting. Cut the tubing to length and attach the other end to the output of the pressure regulator on the dry nitrogen tank.
5. Plug the power cord into the DECREASE outlet on the rear of the ETS Model 5112 or 5100/5200 Series Automatic Humidity Controller. Make sure the DECREASE switch is in the "OFF" position.
6. With the pressure regulator in the minimum position, open the valve on top of the dry nitrogen tank.
7. Adjust the pressure regulator to 35 p.s.i. for operation with an ETS Model 5506A Chamber. Higher p.s.i. may be used for non-acrylic chambers where adequate pressure ventilation is present. A higher p.s.i. setting will result in shorter dehumidification time.
8. Turn on the DECREASE function and open the flow regulator. The valve should make an audible "click" when opening or closing. Turn off the dehumidification system, it is now ready for operation.

Always turn off the dry nitrogen tank when the system is not in use. Always provide adequate ventilation for the volume of nitrogen injected into the chamber to avoid pressure build up inside the chamber. Contact ETS for additional mounting options or technical support.