

Model 600 & 850 Dehydrator Quick Start Guide

Congratulations on purchasing your new Dielectric dehydrator. This quick start guide will detail the necessary steps to get your dehydrator quickly setup and working in your system.



Please refer to the complete user manual for further detail on dehydrator operation and all safety warning information. Use the included QR code for access to instruction booklet IB-268 and additional documentation on our website at www.dielectrictechnologies.com



Site Requirements:

- The dehydrator requires a level surface with a minimum of 3 inches clearance on all sides and in an area with a maximum temperature between 33 and 110 degrees Fahrenheit. Operating the dehydrator in a temperature range of 60-90 degrees will increase the lifespan of the unit. Place the dehydrator in an area where it can be easily accessed for routine maintenance.
- Connect the dehydrator to a properly grounded electrical source with the power cord accessible so that the power cord may be used as a means of electrical disconnect.



1. Install the 90 degree outlet fitting included with the dehydrator in the accessory bag along with spare fuses. **Apply thread sealant compound or Teflon tape to the threads before installing onto the dehydrator.** After installing the outlet fitting, attach a 3/8" tube from your system to the fitting.
2. Turn on the dehydrator using the front on/off switch.
3. When the dehydrator is initially turned on, it is common for the dryer to display an initial humidity alarm due to inactivity during transit and storage. The active humidity alarm will cause the dehydrator to bypass any air being created and will prevent the storage tank from being filled with wet air until the alarm condition is cleared. **This humidity alarm will normally clear within 1 hour of constant runtime.** **Note: The excessive runtime alarm will come on after 10 minutes of runtime. This is normal and no action is required.**

- Once the humidity alarm has cleared, air will begin to fill the storage tank and be available for output from the dehydrator. Adjust the line pressure regulator and observe the line pressure gauge to set the dehydrator output pressure to the desired pressure. Note: When filling a system for the first time, the pressure may take some time to stabilize. Once the system has stabilized, some final adjustment may be required.



OUTLET PRESSURE ADJUSTMENT

- After the dehydrator has filled the system being pressurized, the unit should fill the tank up to approximately 45 PSI and shut off. Once tank has drained down to approximately 20 PSI the compressor should restart and begin refilling the tank.

Note: The model 600 & 850 dehydrator has an internal metering tube that will slowly feed dry air from the storage tank over the humidity sensor while the unit sits idle. This is designed to prevent false humidity alarms during times when the dehydrator is inactive. It is normal for the tank pressure to slowly drain down causing the compressor to restart approximately every 25-30 minutes even in a completely sealed system.

Performing the recommended routine maintenance outlined on the following page can prevent most failures before they happen, minimizing downtime and ensuring trouble free operation for years to come.

Model 600 / 850 Series A - D			
Maintenance Item / Spares List - CALL 1-877-247-3797			
Part Number (PN#)	Spare Part Description	Quantity Required	
		Per Unit	Interval
0046789501	Air Compressor Repair Kit	1	12 - Month
46037	Purge Solenoid Valve Repair Kit	1	12 - Month
0020523012	Backpressure Regulator Diaphragm	1	24 - Month
15688	Humidity Sensor	1	24 - Month
30986	Humidity Sensor Plug	1	24 - Month
89795	Humidity Sensor Gasket	1	24 - Month

Maintenance & Inspection	6 Mo.	12 Mo.	18 Mo.	24 Mo.
Record outlet Pressure (2-15 PSIG Series A-C) (0-2 PSIG Series D)				
Record Back Pressure (45 +/-1 PSIG)				
Record Tank Pressure - On/Off (20/45 PSIG)				
Check purge operation for consistency (Audible) 30 Second Purge cycle				
Check Humidity Alarm (series B-D only) Check Humidity Bypass (series C & D only)				
Visually Inspect unit and components				
Clean Unit - wipe down				
Replace compressor Air Intake filter (1)				
Verify Alarm Operation				
ONE-YEAR MAINTENANCE				
Perform above 6 month maintenance				
Perform air compressor Maint. - Repair Kit				
Perform Purge Valve Maintenance - Repair Kit				
Check Line Pressure Alarm settings				
Check Cooling Fan (audible & flow direction)				
Record Incoming voltage, Must be 115-123 VAC (230V Models operate at 208-240 VAC)				
TWO-YEAR MAINTENANCE				
Perform above 6 month maintenance				
* Replace Humidity bypass Valve				
* Replace Humidity Sensing Element				
* Replace Humidity Sensing Plug				

*Items recommended for replacement every 1 or 2 years should be visually inspected each maintenance interval