

P10KW / P15KW Air Dryer Installation Guide

This guide covers basic air dryer installation and setup only. Once installation is complete, please refer to the P10KW / P15KW User's Guide for more advanced setup and configuration options.

Safety & Warning Information



WARNING!

Internal surfaces may be hot. Use care when coming into contact with internal components as there is a potential for some of these components to become hot when in operation or standby.



WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. Many procedures performed during installation of this air dryer require the equipment to be running, creating a situation for potential electrical shock. It is highly recommended that you remove all jewelry before performing any procedures.



WARNING!

High Noise. PUREGAS Air Dryers are meant to be installed in an unattended area.



CAUTION!

Proper Installation as outlined in this Installation Guide is extremely important to ensure the reliability and longevity of the equipment as well as prevent damage or personal injury.



CAUTION!

Incoming power to dryer must be: 30 amp service recommended 20 amp slow blow fuse 208 - 230 VAC

1 Phase for P10KW

3 Phase for P15KW

If hard-wiring directly, minimum of 12 AWG wire must be used.



CAUTION!

This Air Dryer does not contain an internal Surge Protection Device (SPD). If an SPD is required, it must be supplied by the user.



IMPORTANT!

Installation of PUREGAS Air Dryers are intended for network telecommunication facilities (non-customer premises) only.



IMPORTANT!

If installing more than one dryer in the same location, use individual water drain tubing. If plumbed together, damage to the Air Dryers may occur.



IMPORTANT!

Performing procedures not described in this User's Guide or installing components not supplied by PUREGAS is NOT RECOMMENDED AND MAY VOID THE WARRANTY.

Before You Begin

- 1. Carefully inspect the unit, including the shipping box as well as the air dryer, for ANY DAMAGE CAUSED BY SHIPPING. If any shipping damage is detected, it is important to file a claim with the shipping company prior to continuing the installation procedures.
- **2.** Read the entire Installation Guide to familiarize yourself with the components and procedures before performing the air dryer installation.
- **3.** Verify the installation location of the air dryer:
 - Well ventilated and free from abrasive dust or chemicals.
 - Unobstructed drain or bucket for water dump
 - Ambient temperature is between 40° F and 85° F (optimum).

NOTE: Higher temperatures will decrease component lifespan.

- Meets the following power requirements:
 - 208 230 VAC
 - 1 Phase for P10KW
 - 3 Phase for P15KW
 - Minimum 30 amp service with a 20 amp slow blow fuse.
 - If hard-wiring directly, minimum of 12 AWG wire must be used.
- 4. Notify the alarm center of the installation and potential for alarms during the process (as necessary).

Included Contents

- (1) P10KW / P15KW Air Dryer
- (1) Installation Guide (not shown)

Package located inside the dryer:

- (1) User's Guide (not shown)
- (10') 3/8" Tubing
- (1) Purge Muffler
- (1) Water Sensor
- (1) Compressor Connector Tool

WATER SENSOR PURGE COMPRESSOR CONNECTOR TOOL

Required Tools and Materials

- Large and Medium adjustable wrench
- 7/16" wrench
- Band cutters or snips
- 1+ gallon of clean tap water

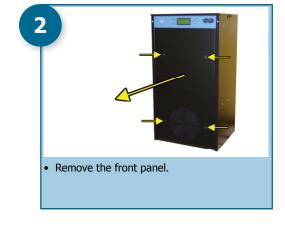
(DO NOT USE DISTILLED WATER)

- Small funnel
- 20 amp 250 VAC plug (recommended)
- Pipe dope or pipe thread tape
- Cup of soapy water
- 1-inch paint brush (recommended)

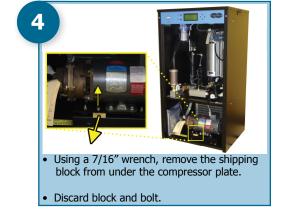
Installation Steps



- Remove all shipping materials.
- Place the dryer at the operating location.



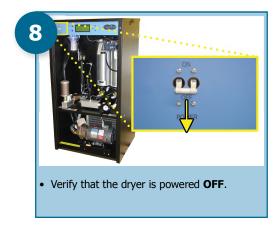




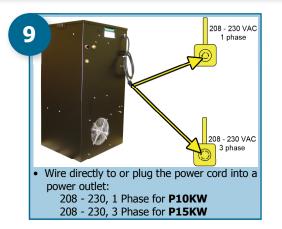


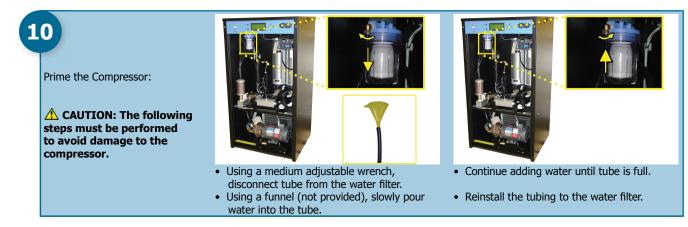


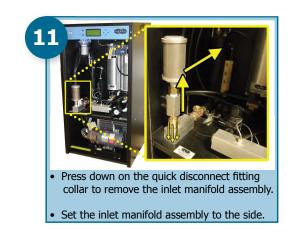


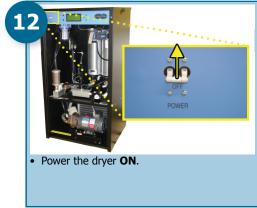


Installation Steps cont.







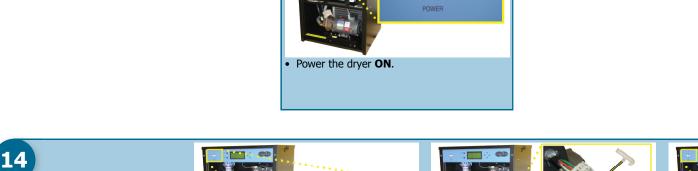


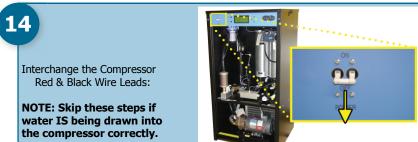


NOTE:

If water IS being drawn into the compressor, Skip to Step #15

If water IS NOT being drawn into the compressor, **Continue to the Next Step #14**

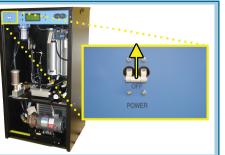




• Power the dryer **OFF**.



- Use the Compressor Connector Tool to remove the Red & Black wires from the DRYER SIDE connector.
- Switch the Red & Black wires and re-insert.

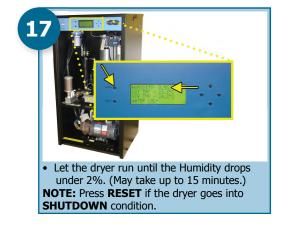


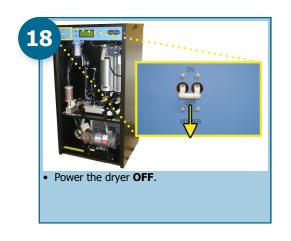
• Power the dryer **ON**.

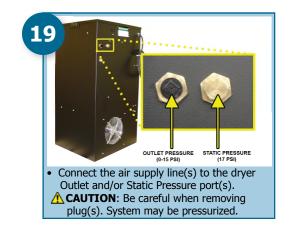


stabilizes below the Middle Water Sensor.











Installation Steps cont.

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Set the System Pressures:

• Use this chart to determine the correct Back Pressure and Bypass settings for your local elevation.

Elevation (Feet)	0	2000	4000	6000	8000	10000	12000
Back Pressure (PSI)	25	24	23	22	21	20	19
Bypass (PSI)	26	25	24	23	22	21	20



• Unlock the Bypass and Back Pressure Valve knobs by loosening the retaining nuts.



• Turn the Bypass Valve (in back) clockwise until it is completely closed.



- Push the Back Pressure Tube **IN** towards the fitting.
- Press and hold the green ferrule IN.
- Pull Back Pressure Tube out of the fitting.



Adjust the Back Pressure Valve (in front) until the **SYSP** reading on the Front Panel Display equals the Back Pressure value determined earlier in this Step.



• Re-connect the Back Pressure Tube by pressing it firmly into the green ferrule.



 Adjust the Bypass Valve (in back) until the **SYSP** reading on the Front Panel Display equals the Bypass Pressure value determined earlier in this Step.



• Lock the Bypass and Back Pressure Valve knobs by re-tightening the retaining nuts.



- Pull Static Pressure Regulator Knob OU
 Adjust knob until the reading on the Pressure Gauge is 17 PSI.
- Push knob IN to lock.



- Adjust knob until Outlet Pressure (OUTP) reading is at the desired setting.
- Push knob **IN** to lock.

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- Visually inspect for water leaks.
- · Check for air leaks.

⚠ CAUTION: DO NOT SOAP TEST THE HUMIDITY SENSOR FITTING. DAMAGE TO THE SENSOR MAY OCCUR.

With Compressor NOT RUNNING:

Listen for 'hissing' sounds which may indicate a fitting or hose air leak.

With Compressor RUNNING:

Use a 1-inch brush to dab soapy water on all air fittings and hose connections.



If air bubbles appear, this is an indication that air is leaking.

EXAMPLE Take steps to seal the leak:

- Tighten the fitting
- Re-connect / tighten the hose end
- Replace the fitting / hose / component



• Connect alarm hookups (if applicable).

Please refer to the **P10KW / P15KW User's Guide** section on **Operating Your Dryer**.

Specifically, sub-sections:

Connecting to Common Alarm Terminals

Rewiring the Common Alarm Terminals

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