P1500W Series Air Dryer
Installation Guide

This guide covers basic air dryer installation and setup only. Once installation is complete, please refer to the P1500W Series 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 and are intended for network telecommunication facilities (non-customer premises) only.

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!
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.

- Ambient temperature is between 40° F and 85° F (optimum).
  NOTE: Higher temperatures will decrease component lifespan.

- Meets the following power requirements:
  - 50 / 60 Hz with minimum 15 amp service with a 10 amp slow blow fuse.
  - 110 - 125 VAC for P1500W & P1500WLP models.
  - 208 - 230 VAC, 1 phase for P1502W & P1502WLP models.

4. Notify the alarm center of the installation and potential for alarms during the process (if applicable).

Included Contents

120 VAC Power Cord

Tee Tube Union

Dryer

220 VAC Power Cord

(1) Dryer

(1) Installation Guide (not shown)

Package located inside the dryer:

      (1) 120 VAC Power Cord (for P1500W & P1500WLP models)

      (1) 220 VAC Power Cord (for P1502W & P1502WLP models)

      (1) Tee Tube Union

      (1) User's Guide (not shown)

      (1) Mini CD (not shown)

Required Tools and Materials

- 9/16" wrench
- Box Cutter

- Cup of soapy water
- 1-inch paint brush (recommended)
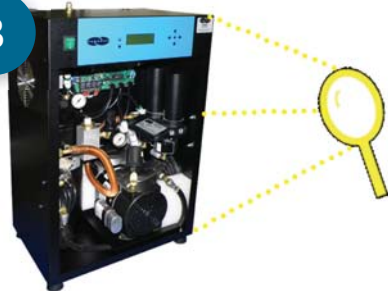
Installation Steps

1

- Remove the dryer from box and all shipping materials.

2

- Open panel latches and remove the front panel.

3

- Check for loose parts, hoses, or wiring.
- Remove the ship-loose contents package.

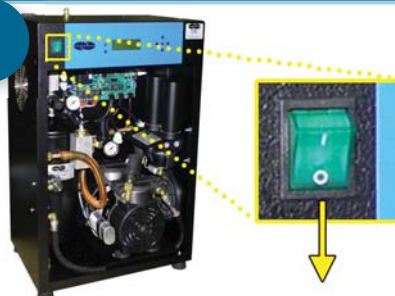**4**

- Remove the ship-loose contents package.

5

- Remove and discard the three packing foam blocks from around the compressor.

6

Place the dryer at desired operating location:

- Set the dryer on a level floor.
- Install the dryer on an equipment rack using optional Universal Rack Mounting Kit (P011674).
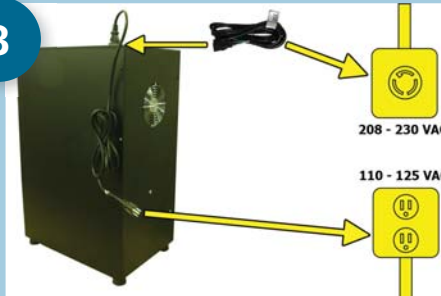- Install the dryer on a wall using optional Wall Mounting Kit (P011773).

7

- Verify that the dryer is powered **OFF**.

8

- Plug the Power Cord into a 110 - 125 VAC outlet for P1500W & P1500WLP

OR

- Wire the Power Cord to a 208 - 230 VAC, 1 Phase outlet for P1502W & P1502WLP:
  - Line – Black (Brown)
  - Neutral – White (Blue)
  - Ground – Green (Green/Yellow)

208 - 230 VAC
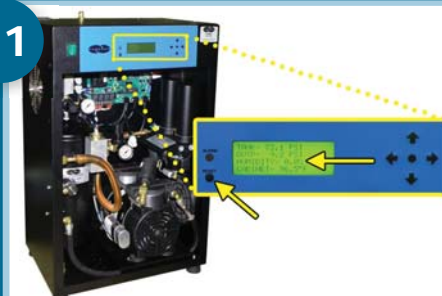
110 - 125 VAC

- Connect the included Power Cord to the dryer.

9

- Power the dryer **ON**.

NOTE: Press the **RESET** but goes into **SHUTDOWN** due

11

- Let dryer run until Humidity drops below 2%.

NOTE: Press the **RESET** button if the dryer goes into **SHUTDOWN** due to Humidity.
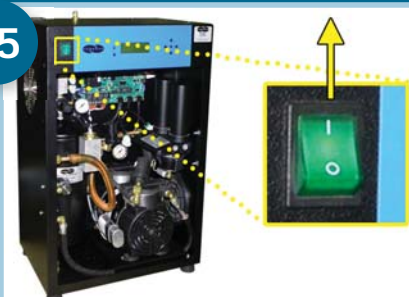
12

- Power the Dryer **OFF**.

13

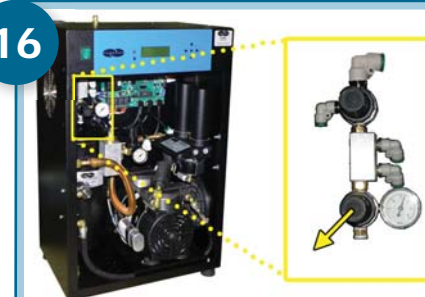- Remove the P Outlet Port..

NOTE: Save ori

15

- Power the dryer **ON**.

16

Set the Static Pressure:

- Pull the Static Pressure Regulator knob out.

- Adjust knob until the pressure gauge is 1

- Push knob in to lock

18

- 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.

EXAMPLE

AIR LEAK

Hose   Fitting   Component

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

Take steps to seal the leak:

- Tighten the fitting

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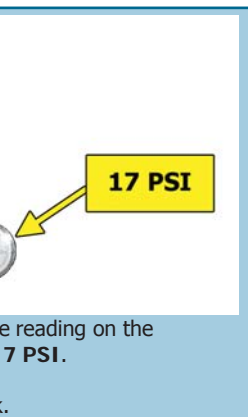
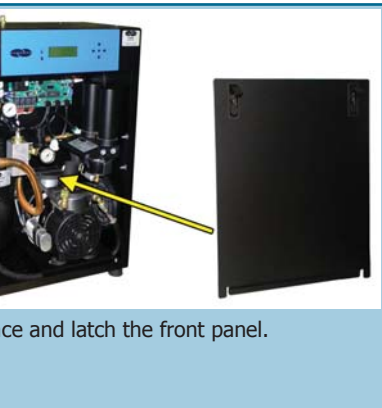- Replace the fitting / hose / component

19

- Repla

tton if the dryer
to Humidity.

10

Set the System Pressure:

With compressor running -
• Pull the Capacity Control Valve knob out.

80 PSI

• Adjust knob until the reading on the pressure gauge is **80 PSI**.

• Push knob in to lock.

recision Bleed Orifice from the

fice for low flow applications.

14

Air Supply Line

• Connect the air supply line to the Outlet Port.

NOTE: When flow is minimal, install the Tee Tube Union and Precision Bleed Orifice removed previously.

17 PSI

e reading on the
7 PSI.

17

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TANK-    74.5 PSI
OUTP-    10.0 PSI
HUMIDITY-  0.0%
CABINET-  75.4°F
```

Set the Outlet Pressure:

• Pull the Outlet Pressure Regulator knob out (or loosen the retaining nut – LP Models).

• Adjust knob until Outlet Pressure (**OUTP**) reading is at desired setting.
• Push knob in to lock. (or tighten the retaining nut – LP Models).

ce and latch the front panel.

20 • Connect alarm hookups (if applicable).

Please refer to the **P1500W Series User's Guide** section on **Operating Your Dryer**.

Specifically, sub-sections:

Connecting to Common Alarm Terminals
Connecting to Power Fail Alarm Terminals

21 • **REGISTER YOUR DRYER**.

Installation Checklist

No shipping damage was detected.

Dryer location meets the following requirements:

- o Well ventilated

- o Free from abrasive dust or chemicals

- o Ambient temperature is between 40° and 85° F (optimal)

Shipping foam blocks removed from around the compressor.

System Pressure is set to 80 PSI.

Static Pressure is set to 17 PSI.

No air leaks are present in the system.

No alarms are present on the Display Panel.

Registering Your Dryer

Please take a moment to register your PUREGAS P1500W Series Air Dryer. Registering is necessary to activate the Limited Warranty on your product. Once you register, you are eligible to receive free technical support, as well as updates concerning your PUREGAS products.

Register Online at:

www.puregas.com/registration

Or by Phone:

1-800-521-5351 **(option 2)**

Have the following information available:

Model #: _____

Serial #: _____

Company Name: _____

Location Name: _____

Shipping Address: _____

City: _____   State: _____

Zip Code: _____

Contact Name: _____

Phone #: (____) -_____ ext. _____

Email: _____