



# P550W Series Air Dryer Installation Guide

This guide covers basic air dryer installation and setup only. Once installation is complete, please refer to the P550W 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 (optimal).  
**NOTE:** Higher temperatures will decrease component lifespan.
  - Meets the following power requirements:
    - 110 - 125 VAC for P550W, P550WH, and P550WLP.
    - 208 - 253 VAC, 1 phase for P552W, P552WH, and P552WLP.
    - All models require 50 / 60 Hz with minimum 15 amp service with a 10 amp slow blow fuse.
4. Notify the alarm center of the installation and potential for alarms during the process (if applicable).

## Included Contents



Dryer



120 VAC Power Cord



220 VAC Power Cord



Precision Bleed Orifice Tee



Connector Male 1/4 MPT

(1) Dryer

(1) Installation Guide (not shown)

Package located inside the dryer:

(1) 120 VAC Power Cord (P550W, P550WLP, P550WH)

(1) 220 VAC Power Cord (P552W, P552WLP, P552WH)

(4) Connector, Male 1/4" MPT (P550WH, P552WH)

(1) Precision Bleed Orifice Fitting

(1) User's Guide (not shown)

(1) Mini CD (not shown)

## Required Tools and Materials

- Medium adjustable wrench
- Cup of soapy water
- Box Cutter
- 1-inch paint brush (recommended)

## Registering Your Dryer

Please take a moment to register your PUREGAS P550W 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](http://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: \_\_\_\_\_

## Installation Steps cont.

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- 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.

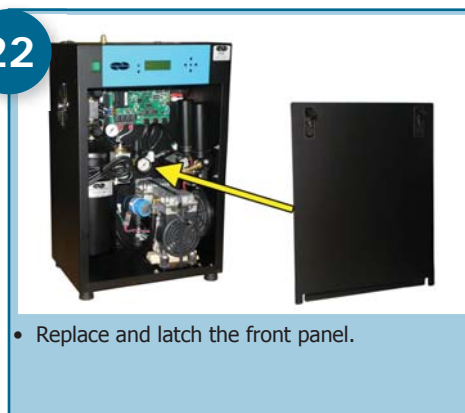


**EXAMPLE**  
If air bubbles appear, this is an indication that air is leaking.

Take steps to seal the leak:

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

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- Replace and latch the front panel.

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- Connect alarm hookups (if applicable).

Please refer to the **P550W Series User's Guide** section on **Operating Your Dryer**.

Specifically, sub-sections:

**Connecting to Common Alarm Terminals**  
**Connecting to Power Fail Alarm Terminals**

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- 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)
- System Pressure is set to 50 PSI.
- Static Pressure is set to 17 PSI.
- No air leaks are present in the system.
- No alarms are present on the Display Panel.

## Installation Steps

1



- Remove the dryer from box and all shipping materials.

2



- Open panel latches and remove the front panel.

3



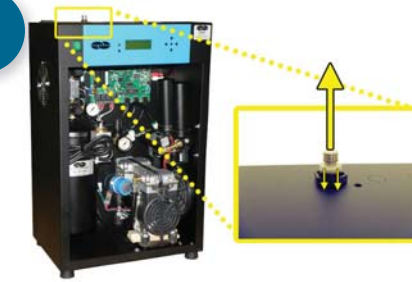
- Check for loose parts, hoses, or wiring.

4



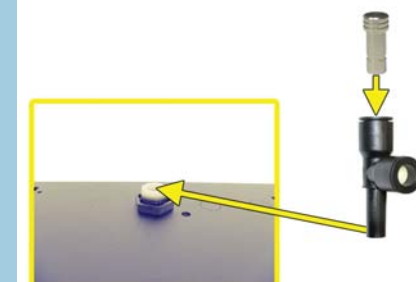
- Remove the ship-loose contents package.

5



**For SINGLE Outlet Dryers ONLY:**

- Remove the Plug from the Outlet Port by pressing the ferrule down and then pulling the plug upward.



- Install the Plug into the included Precision Bleed Orifice fitting and then into the dryer Outlet Port.

6



**For 4-Port Outlet Dryers ONLY:**

- Remove the four (4) Outlet Port Plugs.
- Install the four (4) Outlet Port Connectors.

7

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).



# Installation Steps cont.

**8**

- Verify that the dryer is powered OFF.

**9**

- Plug the Power Cord into a 110 - 125 VAC outlet for P550W / WH / WLP models
- OR**
- Wire the Power Cord to a 208 - 253 VAC, 1 Phase outlet for P552W / WH / WLP models:
- Line – Black (Brown)
- Neutral – White (Blue)
- Ground – Green (Green/Yellow)

**10**

- Power the dryer ON.

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

**11**

**For P550WH and P552WH ONLY:**

- Open the first Outlet Port slightly to create a small amount of air flow.

**12**

Set the System Pressure:

**With compressor running -**

- Pull the Capacity Control Valve knob out.
- Adjust knob until the reading on the pressure gauge is **50 PSI**.
- Push knob in to lock.

**13**

- Let dryer run until Humidity drops below 2%.

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

**14**

- Power the dryer OFF.

**15**

**For SINGLE Outlet Dryers ONLY:**

- Remove the Precision Bleed Orifice fitting from the Outlet Port.

**NOTE:** Save orifice for low flow applications.

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**For SINGLE Outlet Dryers ONLY:**

- Connect a 3/8" air supply line to the Outlet Port.

**OR**

**For 4-Port Outlet Dryers ONLY:**

- Connect up to four (4) 3/8" air supply lines to the Outlet Ports.
- Open Outlet Ports as required.

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**NOTE - For all Dryers with minimal FLOW:**

Install the included Precision Bleed Orifice fitting to maintain a constant air flow

**18**

- Power the dryer ON.

**19**

Set the Static Pressure:

- Pull the Static Pressure Regulator knob out.
- Adjust knob until the reading on the pressure gauge is **17 PSI**.
- Push knob in to lock.

**20**

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).