PUREGAS

P200W Series Dehydrator
Installation Guide

This guide covers basic Dehydrator installation and initial setup only. If you are unable to complete any of the steps as described or require more advanced configuration options, please refer to the P200W Series Dehydrator User's Guide for Operating and Troubleshooting information.

Safety & Warning Information

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!
DO NOT CONNECT THE DEHYDRATOR TO THE SUPPLY LINE UNTIL THE HUMIDITY READING IS 5% OR LESS.

CAUTION!
Proper installtion as outlined in this guide is extremely important to ensure the reliablility and longevity of the equipment as well as prevent damage or personal injury.

CAUTION!
Using the internal pressure relief valve equipped with this unit as the only means of over pressurization protection for the connected system is not advised.
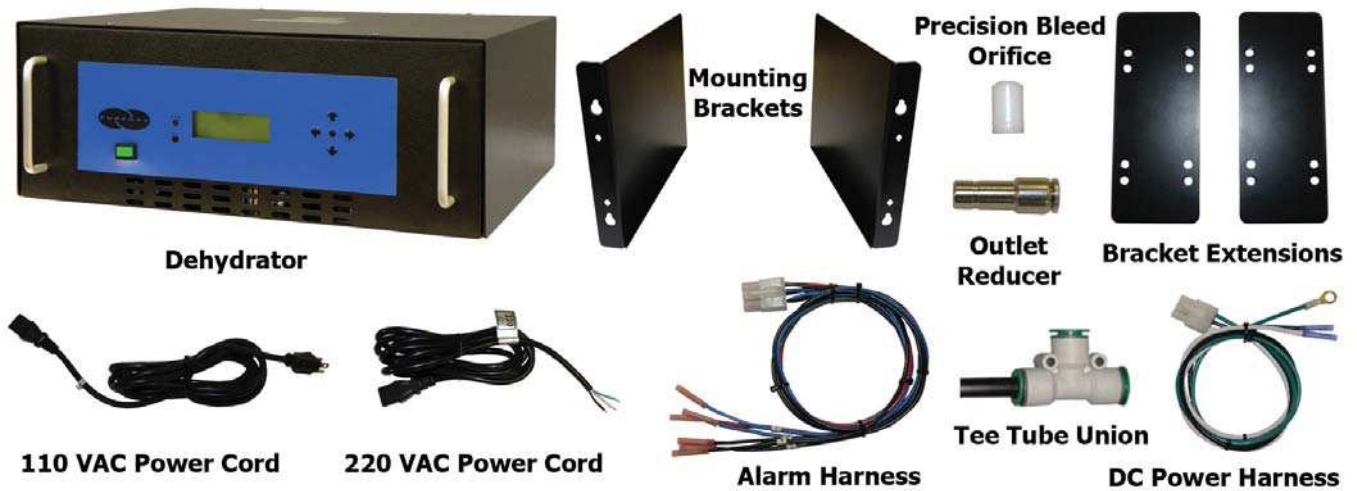
IMPORTANT!
Removing the cover or performing procedures not described in this guide WILL VOID THE WARRANTY.

Before You Begin

1. Carefully inspect the unit, including the shipping box as well as the Dehydrator, 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 Dehydrator installation.

3. Verify the installation location of the dehydrator:

- 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:
  - 10 amp service recommended
  - +24 VDC for P200W model (7 amp slow blow fuse)
  - +48 VDC for P208W model (7 amp slow blow fuse)
  - 85 - 264 VAC (+/-10%), 1 Phase for P200WA model (5 amp slow blow fuse)

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

Included Contents

Dehydrator
Mounting Brackets
Precision Bleed Orifice
Outlet Reducer
Bracket Extensions
110 VAC Power Cord
220 VAC Power Cord
Alarm Harness
Tee Tube Union
DC Power Harness

(1) P200W Series Dehydrator

(1) Installation Guide (not shown)

(1) User's Guide (not shown)

(2) Mounting Brackets

(1) Package containing (for P200WA model):

    (1) 110 VAC Power Cord

    (1) 220 VAC Power Cord

(1) Package containing:

    (2) Bracket Extensions for 23" Rack

    (1) Outlet Reducer

    (1) DC Power Harness (P200W and P208W models)

    (1) Alarm Harness

    (1) Tee Tube Union

    (1) Precision Bleed Orifice

    (1) Package of mounting hardware (not shown)

    (1) Mini CD - Guides & SNMP Files

Required Tools and Materials

- Medium Phillips screwdriver
- 7/16" wrench
- Terminal crimpers
- Box cutting knife

Installation Steps

1

- Use the Box Cutting Knife to open the shipping box and remove the Dehydrator and all contents from packaging.
- Verify all included contents.

2

- Inspect the Dehydrator for any damage. **NOTE**: if ANY shipping damage is detected, file a claim with the shipping company prior to continuing the installation procedures.
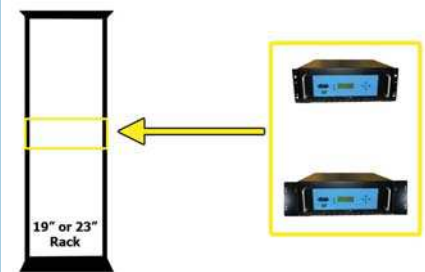
3

- Place the Dehydrator at the operating location:

For Bench Top Installation:

- Place the Dehydrator on a level surface.

For Rack Mounted Installation:

- Attach Mounting Brackets to Dehydrator with flanges facing forward. Use **Hardware A** and Screwdriver.

- For installaion on a 23" rack, attach the Bracket Extensions to the Mounting Brackets. Use **Hardware B**, Screwdriver, and Wrench.

- Install the Dehydrator on a 19" or 23" Rack. Use **Hardware C** and Screwdriver.

For Vertical / Wall Mounted Installation:

⚠ IMPORTANT! PUREGAS recommends keeping the area beneath a vertical mounted Dehydrator clear.

- Attach Mounting brackets to Deydrator with flanges facing UP. Use **Hardware A** and Screwdriver.

NOTE: Make sure the Mounting Brackets are attached in the forward-most mounting position.
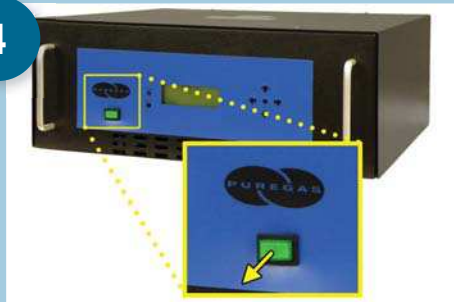

- Install the Dehydrator on a wall with the Display Panel facing UP. (Hardware not supplied)

NOTE: To pre-drill a set of holes, horizontal spacing between bracket holes is 18-3/8" on center.

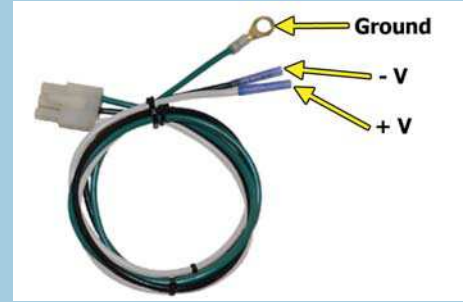# Installation Steps cont.

4

• Verify the Dehydrator is powered **OFF**.
NOTE: **POWER** Button will be in the Out position and **WILL NOT** be illuminated when power is **OFF**.

5

• Connect Power to the Dehydrator.

For +24 VDC and +48 VDC Dehydrators:

• Use Terminal Crimpers to wire the DC Power Harness to power supply.

WHITE: Positive   **BLACK**: Negative

GREEN: Frame or Power Supply Ground

6

• Power the Dehydrator **ON**.
NOTE: POWER Button & Display Screen **WILL** illuminate. Otherwise, verify wiring in Step 5. Compressor should run briefly, then shut down.

7

• Remove the Outlet Port Plug.

NOTE: Compressor should run continuously once this plug is removed.

8

10   In the Set Up Menu:

• Press the Up (↑) & Down (↓) Arrow Buttons to move the underscore beneath the "**S**" in System Operations.

```
SYSTEM OPERATIONS
ALARM SET POINTS
NETWORK SETUP
←Esc   ↑↓Sel   ●Enter
```

• Press the Function (●) Button to Enter System Operations.

The System Operations section is used to set the range for the system pressure. When the system pressure reaches the High Pressure setting, the compressor will turn **OFF**. When the system pressure reaches the Low Pressure setting, the compressor will turn **ON**.

11   Set High Pressure (default setting is 1.50 PSI):

• Press the Function (●) to Set.

• Press the Left (←) & Right Arrow Buttons to select and the Up (↑) & Down Arrow Buttons to change value.

• Press the Function (●) when Done.

12   Set Low Pressure (default setting is 0.30 PSI):

• Press the Function (●) Button to Set.

• Press the Left (←) & Right (→) Arrow Buttons to select digit and the Up (↑) & Down (↓) Arrow Buttons to change the value.

• Press the Function (●) Button when Done.

```
SET LOW PRESSURE
   0.30 PSI

       ↑↓Scroll   ●Set
```

```
SET LOW PRESSURE
   0.30 PSI

←→Sel   ↑↓Chg   ●Done
```

• Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the correct confirmation choice (**Y**es or **N**o)
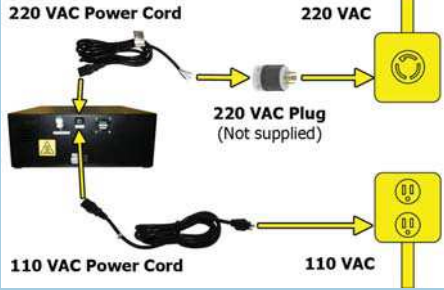
• Press the Function (●) Button to Confirm.

• Press the Up (↑) Arrow Button to scroll to the Set U

```
SET LOW P
   0.30
ARE YOU
←→Se
```

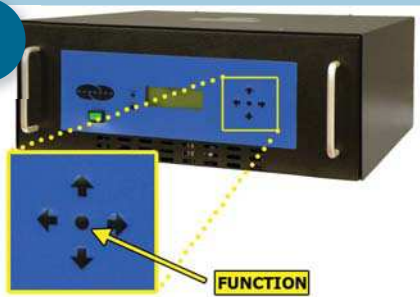- Connect DC Power Harness to the Power Port on the back of the Dehydrator.

For AC Dehydrators:
- Plug in or wire AC Power Cord to supply.
  BLACK: Line   **WHITE**: Neutral
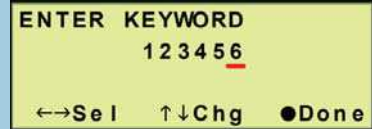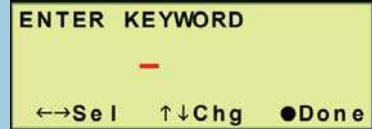 **GREEN**: Ground

- Connect AC Power Cord (110 VAC or 220 VAC) to the Power Port on the back of Dehydrator.

- Locate and familiarize yourself with the Dehydrator Control Buttons.
- Press the Up (↑) Arrow Button to access the Set Up Menu.

9 Enter the Keyword **123456**:

- Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the digit to change.

```
ENTER KEYWORD
        —
←→Sel   ↑↓Chg   ●Done
```

- Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.

- Press the Function (●) Button when Done.

```
ENTER KEYWORD
        123456
←→Sel   ↑↓Chg   ●Done
```
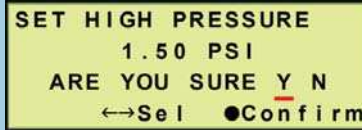
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efault

```
SET HIGH PRESSURE
     1.50 PSI

     ↑↓Scroll   ●Set
```

Button

ght (→)
t digit
n (↓)
ge the

```
SET HIGH PRESSURE
     1.50 PSI
←→Sel   ↑↓Chg   ●Done
```

Button

- Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the correct confirmation choice (**Y**es or **N**o)

```
SET HIGH PRESSURE
     1.50 PSI
ARE YOU SURE Y N
     ←→Sel   ●Confirm
```

- Press the Function (●) Button to Confirm.

- Press the Up (↑) Arrow Button to scroll to the Set Low Pressure screen.

```
RESSURE
 0 PSI
 SURE Y N
 l   ●Confirm
```

p Menu screen.

13 In the Set Up Menu:

- Press the Up (↑) & Down (↓) Arrow Buttons to move the underscore beneath the "**N**" in Network Setup.

```
SYSTEM OPERATIONS
ALARM SET POINTS
NETWORK SETUP
←Esc   ↑↓Sel   ●Enter
```

- Press the Function (●) Button to Enter Network Setup.

14 Set IP Address (if applicable):

- Press the Function (●) Button to Set.

- Press the Left (←) & Right (→) Arrow Buttons to select digit and the Up (↑) & Down (↓) Arrow Buttons to change the value.

- Press the Function (●) Button when Done.

- Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the correct confirmation choice (**Y**es or **N**o)

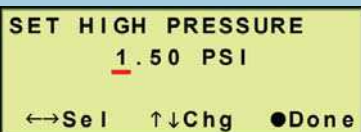- Press the Function (●) Button to Confirm.

- Press the Up (↑) Arrow Button to scroll to the Set Subnet Mask screen.

```
SET SUBNET MASK
 255.255.255.000

           ↑↓Scroll    ●Set
```

```
SET SUBNET MASK
 255.255.255.000
 _
 ←→Sel   ↑↓Chg   ●Done
```

```
SET SUBNET MASK
 255.255.255.000
 ARE YOU SURE Y N
              _
       ←→Sel   ●Confirm
```

15 Set Subnet Mask (if applicable):

- Press the Function (●) Button to Set.

- Press the Left (←) & Right (→) Arrow Buttons to select digit and the Up (↑) & Down (↓) Arrow Buttons to change the value.

- Press the Function (●) Button when Done.

- Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the correct confirmation choice (**Y**es or **N**o)

- Press the Function (●) Button to Confirm.

- Press the Up (↑) Arrow Button to scroll to Set Gateway Address screen.

```
SET SUBNET MASK
 255.255.255.000

           ↑↓Scroll    ●Set
```

```
SET SUBNET MASK
 255.255.255.000
 _
 ←→Sel   ↑↓Chg   ●Done
```

```
SET SUBNET MASK
 255.255.255.000
 ARE YOU SURE Y N
              _
       ←→Sel   ●Confirm
```

18 In the Set Up Menu:

- Press the Left (←) Arrow Buttons to Escape from the Set Up Menu and return to the information screens.
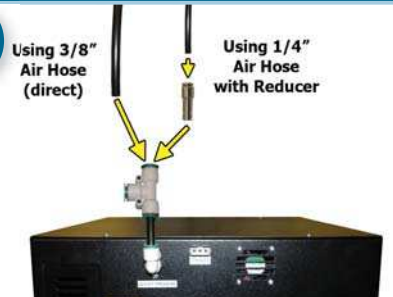
```
SYSTEM OPERATIONS
ALARM SET POINTS
NETWORK SETUP
_
 ←Esc   ↑↓Sel   ●Enter
```

19

- Connect a Network IP Cable to the UTP Port on the back of the Dehydrator. (if applicable)

22

Using 3/8" Air Hose (direct)

Using 1/4" Air Hose with Reducer

- Connect air supply line to the Tee Tube Union:
  For 3/8" supply line, connect directly.
  For 1/4" supply line, use Outlet Reducer.

23

NOTE: Compressor should run until the High Pressure setting (Step 11) is reached.
- Press the **RESET** Button to clear any alarms triggered during installation.

24

- Connect Dehydrator to Alarm Monitoring (if applicable):

Pow...
Com... Ala...
Com... Ala...

- Wire... usin...

16 Set Gateway Address (if applicable):

- Press the Function (●) Button to Set.

- Press the Left (←) & Right (→) Arrow Buttons to select digit and the Up (↑) & Down (↓) Arrow Buttons to change the value.

```
SET GATEWAY ADDRESS
  000.000.000.000

           ↑↓Scroll    ●Set
```

- Press the Function (●) Button when Done.

```
SET GATEWAY ADDRESS
  000.000.000.000
  __
←→Sel   ↑↓Chg   ●Done
```

- Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the correct confirmation choice (**Y**es or **N**o)

```
SET GATEWAY ADDRESS
  000.000.000.000
  ARE YOU SURE Y N
       ←→Sel   ●Confirm
```

- Press the Function (●) Button to Confirm.

- Press the Up (↑) Arrow Button to scroll to the Change Keyword screen.

17 Change Keyword (if applicable):

- Press the Function (●) Button to Set.

- Press the Left (←) & Right (→) Arrow Buttons to select digit and the Up (↑) & Down (↓) Arrow Buttons to change the value.

```
CHANGE KEYWORD
      123456

         ↑↓Scroll   ●Set
```

- Press the Function (●) Button when Done.

```
CHANGE KEYWORD
      123456
        __
←→Sel   ↑↓Chg   ●Done
```

- Press the Left (←) & Right (→) Arrow Buttons to move the underscore beneath the correct confirmation choice (**Y**es or **N**o)

```
CHANGE KEYWORD
      123456
  ARE YOU SURE Y N
       ←→Sel   ●Confirm
```

- Press the Function (●) Button to Confirm.

- Press the Up (↑) Arrow Button to scroll to the Set Up Menu screen.

20


```
PRESSURE-1.25PSI
HUMIDITY-    0%
CAB TEMP-   78°F
DUTY CYCLE-   2%
```

- Let the Dehydrator run until the Humidity is 5% or below. (May take 15 - 20 minutes.)
NOTE: Press the **RESET** Button if Dehydrator goes ino **SHUTDOWN**.

21

- Connect the Tee Tube Union and the Precision Bleed Orifice to the Outlet Port FItting.

Wire #	Designation
er Fail 1	SHORT on Alarm
4	
nmon arm 2	SHORT on Alarm
5	
nmon arm 3	OPEN on Alarm
6	

- Alarm Harness to monitoring device
g the above chart for reference.

- Connect the Alarm Harness to the Alarm Port on the back of the Dehydrator.

25 • **REGISTER YOUR DEHYDRATOR.**

Installation Checklist

☐ No shipping damage was detected.

☐ Dehydrator location meets the following requirements:

   o Well ventilated
   o Free from abrasive dust or chemicals
   o Ambient temperature is between 40° and 85° F (optimum)

☐ High & Low Pressure was set.

☐ Keyword, Network IP, Subnet, and Gateway Addresses were set. (if applicable)

☐ Network IP Cable connected to Dehydrator. (if applicable)

☐ Dehydrator connected to alarm monitoring. (if applicable)

☐ No alarms are present on the Display Panel.

Registering Your Dehydrator

Please take a moment to register your PUREGAS P200W Series Dehydrator. 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: _____