P550W2 Series Air Dryers



User's Guide

Models covered:

P550W2 P550W2H P550W2LP P552W2 P552W2H P552W2LP



1. Welcome & Congratulations

Congratulations on your purchase of a new PUREGAS P550W2 Series Air Dryer! We here at PUREGAS are very proud of our products and we are committed to providing you with the best value and service possible.

We are sure that you will be satisfied with your new air Dryer and would like to thank you for choosing PUREGAS for your air Dryer requirements. We also hope that you will continue to choose us for your future air pressure and related product purchases.

For information about this and other PUREGAS products, please visit us on the web at:

www.puregas.com

2. Introduction

PLEASE READ THIS USER'S GUIDE THOROUGHLY AND SAVE FOR FUTURE REFERENCE.

This User's Guide is provided for the benefit of our customers and contains information and direction specific to the PUREGAS P550W2 Series Air Dryers. Models covered include P550W2, P550W2H, P550W2LP, P552W2, P552W2H, and P552W2LP. This guide covers topics including: safety, specifications, installation, registration, operation, testing, maintenance, replacement parts, service, and troubleshooting issues. Observation and compliance with this User's Guide will ensure the maximum life and efficiency of your air Dryer.

This User's Guide should be read thoroughly prior to installing, operating, or servicing the air Dryer in order to become familiar with the recommended procedures. This will minimize the possibility of personal injury or damage to the unit due to improper operation or handling.

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4. Safety & Warning Information

This section contains general information about safety and warning points to consider and adhere to during installation, operation, and maintenance of your air Dryer. PLEASE READ THIS SECTION BEFORE PERFORMING ANY OPERATION OR PROCEDURE ON YOUR AIR DRYER.

Additional warnings specific to an operation or procedure will also be presented throughout the following sections. These will include the symbol as well as a label of "WARNING!", "CAUTION!", or "IMPORTANT!". Please be sure to pay close attention for these warnings and read them as you encounter them.



WARNING!

For your safety, all the information in this User's Guide must be followed to minimize the risk of electrical shock, and prevent property damage or personal injury.



WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. Many procedures performed during installation, operation, testing, and maintenance 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!

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.



CAUTION!

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



CAUTION!

Depressurizing the air Dryer may be necessary before performing certain procedures. **NEVER** remove pressure sensing tubes from the Control Board without depressurizing the air Dryer first, or **damage to the Control Board will occur.**



CAUTION!

Incoming power to Dryer must be:

- 15 amp service recommended
- 10 amp slow blow fuse
- 110 125 VAC, 50/60 Hz for P550W2 models
- 208 253 VAC, 50/60 Hz, 1 Phase for P552W2 models



IMPORTANT!

Performing routine maintenance as outlined in the *Maintaining Your Dryer* section will ensure optimal performance over the lifecycle of your air Dryer.



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.

5. Overview & Specifications

5.1 Product Description

The P550W2 Series Air Dryers from PUREGAS are designed to intake wet ambient air and remove the moisture for delivery to applications requiring a constant, ondemand source of dry, pressurized air. This process is fully automatic and will remain consistent with minimal required periodic maintenance. These dryers are designed specifically for indoor use.

The P550W2 Series Air Dryers employ a fully digital operating platform offering the most accurate readings of Dryer variables, removable access panel allowing easier access for adjustment and maintenance, and ultra quiet compressor with an industry leading maintenance interval of 8,000 hours.

5.2 Key Features

- LCD display of all operating parameters
- Solid state microprocessor-based circuitry eliminates costly maintenance
- Accurate humidity sensing within ±0.1% RH
- Quietest Dryer on the market less than 50 dBA
- Oil-less compressors with 8,000 hour maintenance interval

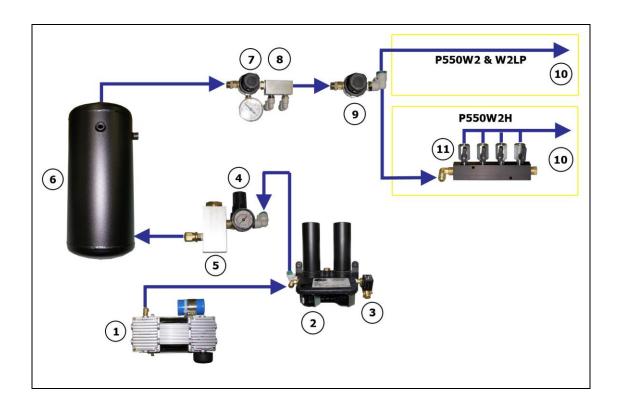
5.3 P550W2 Series Air Dryer Models

Model	Description
P550W2	Single Pressure Outlet, 110 - 125 VAC, 13.8 – 103.4 KPa
P550W2H	4-Bank Outlet Manifold, 110 - 125 VAC, 13.8 – 103.4 KPa
P550W2LP	Low Pressure, Single Pressure Outlet, 110 – 125 VAC, 2.07 – 51.71 KPa
P552W2	Single Pressure Outlet, 208 - 253 VAC, 13.8 – 103.4 KPa
P552W2H	4-Bank Outlet Manifold, 208 - 253 VAC, 13.8 – 103.4 KPa
P552W2LP	Low Pressure, Single Pressure Outlet, 208 - 253 VAC, 2.07 – 51.71 KPa

5.4 Technical Specifications

	P550W2	P550W2H	P550W2LP	P552W2	P552W2H	P552W2LP
Output Capacity	Normal: Up to 9.9 SCMD continuous Maximum: 15.6 SCMD emergency					
Power Requirements	110 - 125 VAC, 50 / 60 Hz, 7.0 Amps 208 - 253 VAC, 1 P 50 / 60 Hz, 3.5 Ar			· ·		
Outlet Pressure Range	13.8 – 103.4 KPa		2.07 – 51.71 KPa	13.8 – 1	03.4 KPa	2.07 – 51.71 KPa
Outlet Air Humidity	Less than 2% RH					
Compressor Type	Two-cylinder, 1/2 HP, oil-less type					
Drying Method	Heatless Desiccant					
Operating Temperature Range	5° to 30° C (optimal)					
Noise Level	51 dBA at .9 m, 48 dBA at 3 m					
Alarms	Standard alarms – complete readings of all critical measurement points, individual alarm indication display, including SNMP communication					
Outlet Connections	3/8" O.D. tube fitting	3/8" Press-to-lock, 4-bank manifold with shut off valves	3/8" O.D. tı	ube fitting	3/8" Press-to-lock, 4-bank manifold with shut off valves	3/8" O.D. tube fitting
Dimensions	30.5cm D x 43.8cm W x 68.6cm H					
Net Weight	33.6 kgs					

5.5 Dryer Function Overview



#	Component	Description	
1	Compressor	Compresses drawn in ambient air.	
2	Heatless Dryer	Removes moisture from compressed air.	
3	Unloader Valve	Relieves excess Compressor head pressure.	
4	Capacity Control Valve	Regulates System Pressure and prevents air from	
		bleeding back through the Heatless Dryer.	
5	Humidity Sensor	Measures the Humidity of the compressed air.	
6	Air Tank	Stores dry compressed air.	
7	Static Pressure Regulator	Regulates the Static Pressure - 117 KPa (17 PSI).	
		Maintains constant pressure on the Flow Block	
		for accurate Flow measuring.	
8	Flow Block	Measures the Flow of compressed air.	
9	Outlet Pressure Regulator	Regulates the Outlet Pressure.	
10	Pressure Outlet	Outputs the pressure set by the Outlet Pressure	
		Regulator.	
11	4-Bank Outlet Manifold	Distributes the air into 4 separate outlets	

6. Installing Your Dryer

6.1 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, operation, testing, and maintenance 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.



CAUTION!

Proper Installation & Maintenance as outlined in this User's 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:

- 15 amp service recommended
- 10 amp slow blow fuse
- 110 125 VAC, 50/60 Hz for P550W2 models
- 208 253 VAC, 50/60 Hz, 1 Phase for P552W2 models



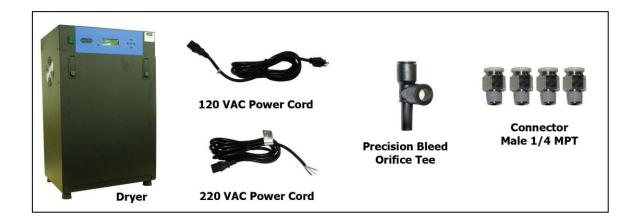
IMPORTANT!

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

6.2 Before You Begin

- 6.2.1 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.
- **6.2.2** Read the entire *Installing Your Dryer* section to familiarize yourself with the components and procedures before performing the air Dryer installation.
- **6.2.3** Verify the installation location of the air Dryer:
 - **6.2.3.1** Well ventilated and free from abrasive dust or chemicals.
 - **6.2.3.2** Ambient temperature is between 5° and 30° C (optimal). **NOTE:** Higher temperatures will decrease component lifespan.
 - **6.2.3.3** Meets the following power requirements:
 - 110 125 VAC for P550W2, P550W2H and P550W2LP models
 - 208 253 VAC, 1 Phase for P552W2, P552W2H and P552W2LP models
 - All models require 50/60 Hz and minimum 15 amp service with a 10 amp slow blow fuse
- **6.2.4** Notify the alarm center of the installation and potential for alarms during the process (as necessary).

6.3 Included Contents



(1) P550W2 Series Air Dryer

Package located inside the Dryer:

- (1) 120 VAC Power Cord (P550W2, P550W2H, P550W2LP)
- (1) 220 VAC Power Cord (P552W2, P552W2H, P552W2LP)
- (4) Connector, Male ¹/₄ MPT (P550W2H, P552W2H)
- (1) Tee Tube Union
- (1) Precision Bleed Orifice Fitting
- (1) User's Guide (not shown)

6.4 Required Tools and Materials

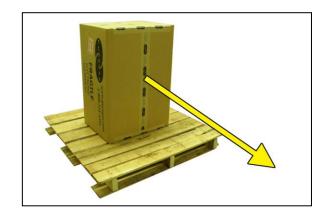
- Medium adjustable wrench
- Box Cutter

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

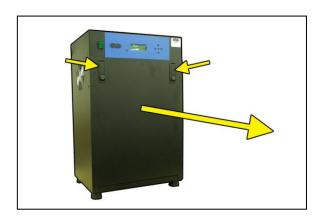
6.5 Installation Steps

6.5.1 Using a box cutter remove the Dryer from box and all shipping materials.

NOTE: If ANY SHIPPING DAMAGE is detected, file a claim with the shipping company prior to continuing the installation procedures.

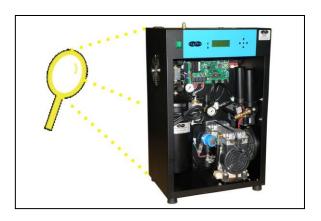


6.5.2 Open panel latches and remove the front panel.

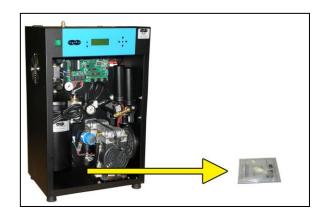


6.5.3 Check for loose parts, hoses, or wiring.

NOTE: If ANY SHIPPING DAMAGE is detected, file a claim with the shipping company prior to continuing the installation procedures.

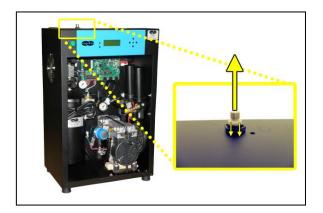


6.5.4 Remove the ship-loose contents package.

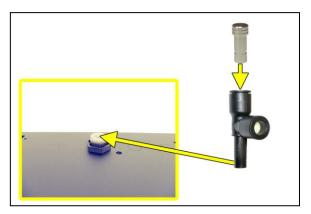


For SINGLE Outlet dryers:

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



6.5.6 Install the Plug into the included Bleed Orifice Fitting and then into the dryer Outlet Port.

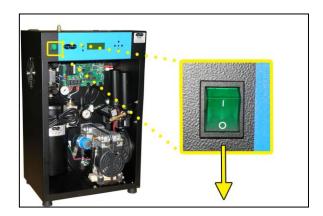


For 4-Port Outlet dryers:

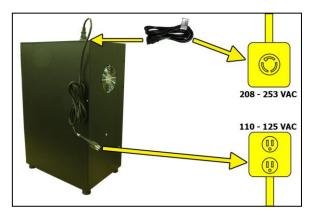
- **6.5.7** Remove four (4) Outlet Port plugs.
- **6.5.8** Install four (4) Outlet Port Connectors.



- **6.5.9** Place the Dryer at the desired operating location:
 - Place the Dryer on a leveled surface
 - For rack install use Universal Rack Mounting Kit P011674 (section 11.4)
 - For wall install use Wall Mounting Kit P011773 (section 11.4)
- **6.5.10** Verify that the Dryer is powered **OFF**.



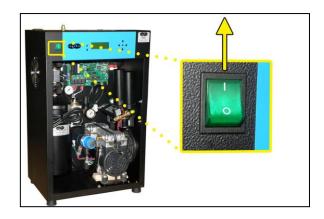
- **6.5.11** Plug AC Power Cord to Dryer.
- **6.5.12** Wire or plug the power cord into:
 - 110 125 VAC power outlet for P550W2,
 P550W2H, and
 P550W2LP models



- 208 253 VAC, 1 phase, power outlet for P552W2, P552W2H, and P552W2LP models.
 - Line Black (Brown)
 - Neutral White (Blue)
 - o Ground Green (Green/Yellow)

6.5.13 Power the Dryer **ON**.

NOTE: The compressor and heatless Dryer will start, creating air flow through the Outlet Port.



For 4-Port Outlet dryers:

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

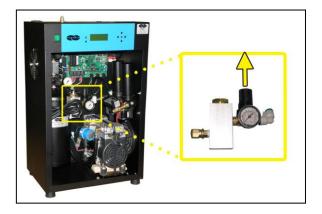


6.5.15 Set the System Pressure:

With Compressor running:

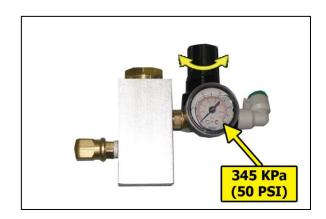
6.5.15.1 Pull the Capacity

Control Valve knob out.



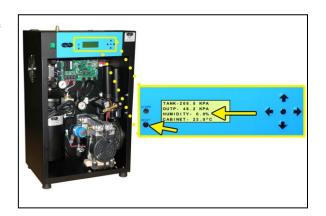
6.5.15.2 Turn the knob until the reading on the pressure gauge is 345 KPa (50 PSI).

6.5.15.3 Push the knob in to lock.

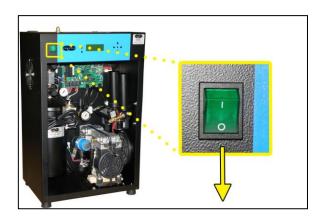


6.5.16 Let the Dryer run until the Humidity drops below 2% (may take up to 15 minutes).

NOTE: Press the **RESET** button if the Dryer goes into **SHUTDOWN** mode.



6.5.17 Power the Dryer **OFF**.



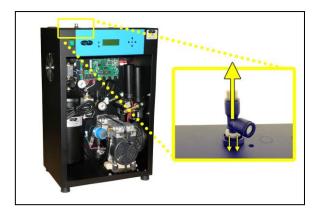
For SINGLE Outlet dryers:

6.5.18 Remove the Precision

Bleed Orifice fitting from the

Outlet Port by pressing the
ferrule down then pulling the
fitting upward.

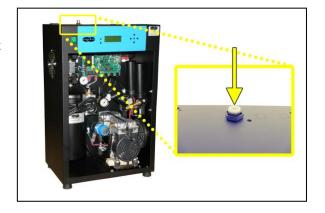
NOTE: Save this fitting for use in low flow applications.



6.5.19 Connect the air supply line(s):

For SINGLE Outlet dryers:

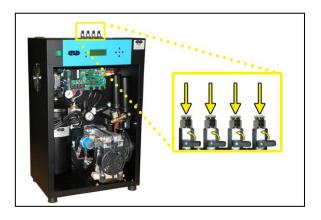
6.5.19.1 Connect a 3/8" air supply line to the Outlet Port.



For 4-Port Outlet dryers:

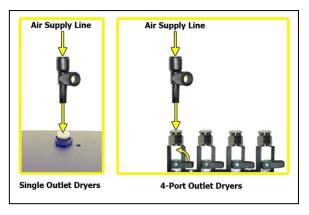
6.5.19.2 Connect up to four (4) 3/8"air supply lines to the Outlet Ports.

Open Outlet Ports as required.



NOTE: For all dryers with minimal flow:

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



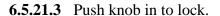
6.5.20 Power the Dryer **ON**.

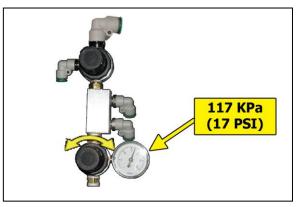


6.5.21 Set the Static Pressure:6.5.21.1 Pull Static PressureRegulator knob out.



6.5.21.2 Turn knob until the reading on the pressure gauge is 117 KPa(17 PSI).





6.5.22 Set the Outlet Pressure:

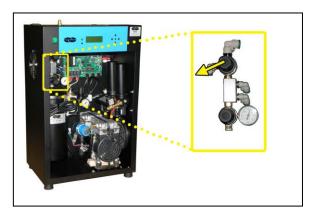
6.5.22.1 Pull the Outlet

Pressure Regulator knob

out (or loosen the

retaining nut – LP

Models).



- **6.5.22.2** Turn knob until

 Outlet Pressure (**OUTP**)

 reading is at the desired setting.
- 6.5.22.3 Push knob in to lock (or tighten the retaining nut LP Models).



6.5.23 Check for air leaks:

NOTE: This is a general procedure that can be applied to any fitting or hose that has air pressure in it. **DO NOT SOAP TEST THE HUMIDITY SENSOR FITTING. DAMAGE TO THE SENSOR MAY OCCUR.**

With Compressor NOT running:

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

With Compressor running:

brush to dab soapy water on the air fitting or hose connection to be tested.

If air bubbles appear at the connection, this indicates that air is leaking from the



If any leaks are detected, take steps to seal them off (as necessary):

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

6.5.24 Re-install the front panel.

connection.



6.5.25 REGISTER YOUR DRYER. *See section 7. for details.*

6.6 Installation Checklist				
☐ No shipping damage was	detected.			
☐ Dryer location meets the following requirements:				
 Well ventilated 				
 Free from abrasive du 	st or chemicals			
o Ambient temperature is between 5° and 30° C (optimal)				
☐ System Pressure is set to 3	345 KPa.			
☐ Static Pressure is set to 11	17 KPa.			
☐ 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 P550W2 Series Air Dryer.			
Registering is necessary to activa	te the Limited Warranty on your product. Once you			
register, you are eligible to receive	ve free technical support, as well as updates			
concerning your PUREGAS prod	lucts.			
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:

8. Operating Your Dryer

8.1 Safety & Warning Information



WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. Many procedures performed during installation, operation, testing, and maintenance 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!

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.



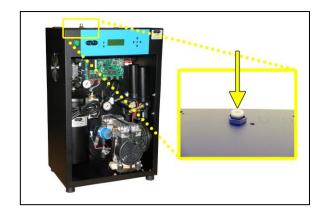
IMPORTANT!

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

8.2 Connecting Air Supply Lines to the Dryer

For SINGLE Outlet dryers:

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



For 4-Port Outlet dryers:

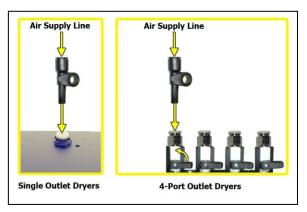
8.2.2 Connect up to four (4) 3/8"air supply lines to the Outlet Ports.

Open Outlet Ports as required.



NOTE: For all dryers with minimal flow:

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

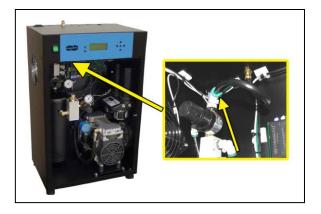


⚠ CAUTION: Be careful when removing outlet plugs or connected Air Supply Lines. System may be pressurized.

8.3 Depressurizing the Dryer

CAUTION: Be careful when removing air hose. System is pressurized.

8.3.1 Disconnect air hose from the quick disconnect connector located on top of Outlet Pressure Regulator.



- **8.3.2** To prevent pressure from building back up, power the Dryer **OFF** (*See section 8.4*).
- **8.3.3** Reconnect air hose.

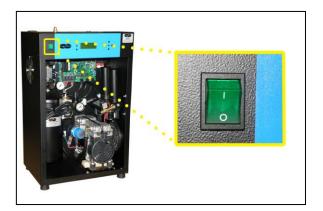
8.4 Powering the Dryer ON & OFF



CAUTION!

Incoming power to Dryer must be:

- 15 amp service recommended
- 10 amp slow blow fuse
- 110 125 VAC, 50/60 Hz for P550W2 models
- 208 253 VAC, 50/60 Hz, 1 Phase for P552W2 models
- **8.4.1 POWER** Switch Controls the main power to the Dryer.

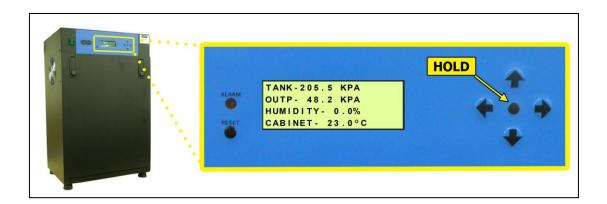


8.5 Using the Front Panel Display



CAUTION!

The Display Screen is covered by a clear protective layer that guards against Electrostatic Discharge (ESD). DO NOT REMOVE THIS LAYER.



- **8.5.1** ALARM LED Indicates an alarm is present.
- **8.5.2 RESET Button** Clears an alarm and allows the system to continue operating.
- **8.5.3 HOLD Button** Freezes the current information screen on the display. When pressed again, it will allow the information screens to begin cycling again.
- **8.5.4** Arrow Buttons Used to access, navigate, and change values in the Set Point Adjust screens.

8.5.5 Display Screen - Shows the current Dryer readings. Will cycle between the following information screens (unless the **HOLD** button has been pressed):

8.5.5.1 Tank Screen

TANK-205.5 KPA
OUTP- 48.2 KPA
HUMIDITY- 0.0%
CABINET- 23.0°C

TANK – Air Tank pressure - fluctuates between 138 – 345 KPa.

OUTP – Outlet Pressure regulated by the Outlet Pressure Regulator

HUMIDITY – Humidity level of the system.

CABINET – Temperature of the Dryer cabinet compartment.

8.5.5.2 System Stat Screen

SYSTEM STAT ON RUN
DUTY CYCLE 21.6%
TTL TIME 51HRS
FLOW- 1.97 SCMD

SYSTEM STAT - Running Status of the system:

- **ON RUN** System is Online.
- SHUTDOWN System has been shutdown as a result of either a Humidity or High Cabinet Temperature alarm.

DUTY CYCLE – The percentage of time the Compressor is ON versus time it is OFF during the Air Tank pressurization cycle.

TTL TIME – How many hours the compressor has run since the last Comp Run Reset.

FLOW – Air Flow Rate

8.6 Identifying Dryer Alarms

8.6.1 High Outlet Pressure Alarm -

Occurs when the Outlet Pressure (OUTP) rises above the alarm set point for more than one (1) minute.

TANK-205.5 KPA
OUTP- 72.9 KPA HALR
HUMIDITY- 0.0%
CABINET- 23.0°C

(Default setting is 69.0 KPa for Standard models / 51.71KPa for LP models)

See section 13.5 for troubleshooting information.

8.6.2 Low Outlet Pressure Alarm –

Occurs when the Outlet Pressure (OUTP) drops below the alarm set point for more than one (1) minute.

TANK-205.5 KPA
OUTP- 11.7 KPA LALR
HUMIDITY- 0.0%
CABINET- 23.0°C

(Default setting is 14.0 KPa for Standard models / 2.07 KPa for LP models)

See section 13.7 for troubleshooting information.

8.6.3 High Humidity Alarm –

Occurs when the Humidity level rises above the alarm set point for more than one (1) minute.

(Default setting is 10.0%)

TANK-205.5 KPA
OUTP- 48.2 KPA
HUMIDITY-10.2% ALR
CABINET- 23.0°C

If this alarm is present for one (1) minute or more, the air Dryer will go into **SHUTDOWN** mode to prevent saturated air from being delivered to the supply line.

See section 13.9 for troubleshooting information.

8.6.4 High Cabinet Temperature Alarm -

Occurs when the temperature in the cabinet rises above 49°C for more than ten (10) seconds.

```
TANK-205.5 KPA
OUTP- 48.2 KPA
HUMIDITY- 0.0%
CABINET- 52.0°C ALR
```

If this alarm is present for three (3) minutes or more, the Compressor will **SHUTDOWN** to protect against damage due to overheating. Once the temperature lowers to 45°C the Compressor will re-start.

See section 13.12 for troubleshooting information.

8.6.5 High Duty Cycle Alarm –

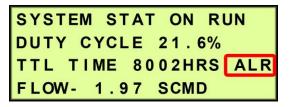
Occurs when the Duty Cycle rises above the alarm set point. (Default setting is 70%)

```
SYSTEM STAT ON RUN
DUTY CYCLE 52.3% ALR
TTL TIME 51HRS
FLOW- 1.97 SCMD
```

See section 13.17 for troubleshooting information.

8.6.6 Compressor Total Hour Alarm –

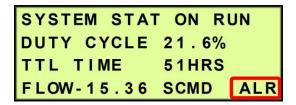
Occurs when the compressor has reached an 8,000 hour maintenance interval. Perform the required maintenance.



See section 10.3 for maintenance information.

8.6.7 High Flow Rate Alarm –

Occurs when the Flow Rate (FLOW) rises above the alarm set point for more than one (1) minute.



(Default setting is 14 SCMD)

See section 13.11 for troubleshooting information.

8.7 Adjusting & Resetting Dryer Set Points

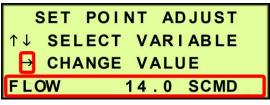
Dryer Set Points are simply limits programmed for a specific reading. Once this limit is reached (or exceeded) this results in an alarm for that reading. Each of these set points is factory programmed with a default value based on typical usage of the air Dryer. Many of the set points for Dryer alarms can be modified to levels more closely based upon your specific application.

NOTE: Reference Appendix Section 14.2 for Limits and Defaults.

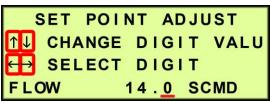
- Press the Up (1) Arrow Button to access the Set Point Adjust screens.
- Press the Up (↑) & Down (↓) Arrow Buttons to navigate through the available
 Set Point Adjust screens.
- To change a specific Set Point:

8.7.1 High Flow Rate Alarm Set Point (default setting is 14.0 SCMD) –

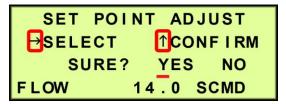
8.7.1.1 Press the Right (→)Arrow Button to access the Change Value Screen.



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



- **8.7.1.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- 8.7.1.4 Press the Right (→)Arrow Button until the underscore disappears.



8.7.1.5 Press the Right (\rightarrow)

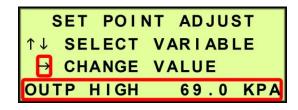
Arrow Button until the underscore appears under the correct setting (**YES** or **NO**).

8.7.1.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

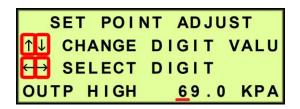
8.7.2 High Outlet Pressure Alarm Set Point

(default setting is 69.0 KPa for Standard models / 51.57 KPa for LP models) –

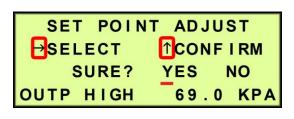
8.7.2.1 Press the Right (→)Arrow Button to access the Change Value Screen.



8.7.2.2 Press the Right (→) &Left (←) Arrow Buttons to move the underscorebeneath the digit to change.



- **8.7.2.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- **8.7.2.4** Press the Right (\rightarrow) Arrow Button until the underscore disappears.
- 8.7.2.5 Press the Right (→)Arrow Button until the underscore appears under the correct setting (YES or NO).



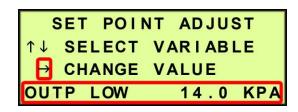
8.7.2.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

8.7.3 Low Outlet Pressure Alarm Set Point

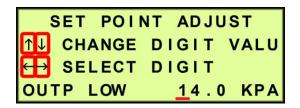
(default setting is 14.0 KPa for Standard models / 2.07 KPa for LP models) -

8.7.3.1 Press the Right (→)

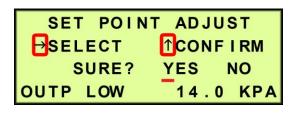
Arrow Button to access the Change Value Screen.



8.7.3.2 Press the Right (→) &Left (←) Arrow Buttons to move the underscorebeneath the digit to change.



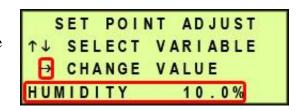
- **8.7.3.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- **8.7.3.4** Press the Right (\rightarrow) Arrow Button until the underscore disappears.
- 8.7.3.5 Press the Right (→)Arrow Button until the underscore appears under the correct setting (YES or NO).



8.7.3.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

- **8.7.4 High Humidity Alarm Set Point** (default setting is 10.0%)
 - **8.7.4.1** Press the Right (→)

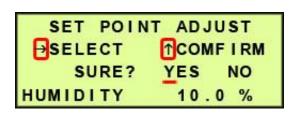
 Arrow Button to access the Change Value Screen.



8.7.4.2 Press the Right (→) &Left (←) Arrow Buttons tomove the underscorebeneath the digit to change.

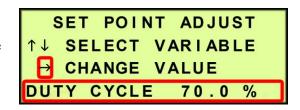


- **8.7.4.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- **8.7.4.4** Press the Right (\rightarrow) Arrow Button until the underscore disappears.
- 8.7.4.5 Press the Right (→)Arrow Button until the underscore appears under the correct setting (YES or NO).



8.7.4.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

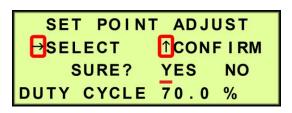
- **8.7.5 High Duty Cycle Alarm Set Point** (default setting is 70%)
 - 8.7.5.1 Press the Right (→)Arrow Button to access the Change Value Screen.



8.7.5.2 Press the Right (→) &Left (←) Arrow Buttons tomove the underscorebeneath the digit to change.



- **8.7.5.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- **8.7.5.4** Press the Right (\rightarrow) Arrow Button until the underscore disappears.
- 8.7.5.5 Press the Right (→)Arrow Button until the underscore appears under the correct setting (YES or NO).

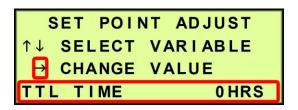


8.7.5.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

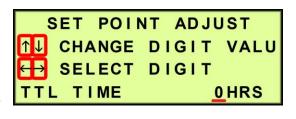
8.7.6 Compressor Total Time Reset –

The Total Time (**TTL TIME**) is the time the compressor runs measured in hours since startup or the last time the compressor time counter was reset. The dryer will display an alarm when this counter has reached 8,000 hours, signaling is it time for maintenance.

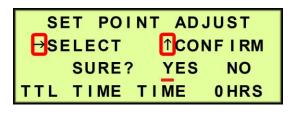
8.7.6.1 Press and Hold the Left(←) & Right (→) ArrowButtons to access theChange Value Screen.



8.7.6.2 Press the Right (→) &Left (←) Arrow Buttons to move the underscore beneath the digits to change to zero (0).



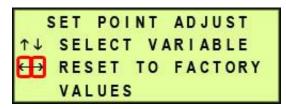
- **8.7.6.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- **8.7.6.4** Press the Right (→) Arrow Button until the confirmation screen appears.
- 8.7.6.5 Press the Right (→)Arrow Button until the underscore appears under the correct setting (YES or NO).



8.7.6.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

8.7.7 Reset to Factory Values –

8.7.7.1 Press the Left (←) & Right (→) Arrow Buttons at the same time.



8.7.7.2 Press the Right (→)

Arrow Button until the underscore appears under the correct setting (YES or NO).



8.7.7.3 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

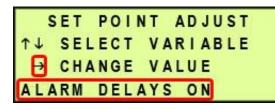
8.7.8 Alarm Delays Set Point –

The Alarm Delay allows the Dryer to come out of the alarm condition on its own without signaling an alarm.

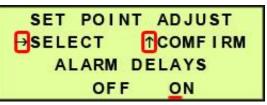
ON (default) – waits one (1) minute before signaling alarms **OFF** – signals alarms immediately

8.7.8.1 Press the Right (→)

Arrow Button to change the value.



8.7.8.2 Press the Right (→)Arrow Button until the underscore appears under the correct setting (OFF or ON).



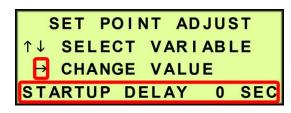
8.7.8.3 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

8.7.9 Startup Delay Set Point (default setting is 0 sec) –

The Startup Delay keeps the compressor from turning on immediately when the dryer is powered on for up to 10 seconds. This allows multiple dryers to power on in separate intervals in case of a power loss.

8.7.9.1 Press the Right (→)

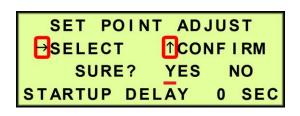
Arrow Button to access the Change Value Screen.



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



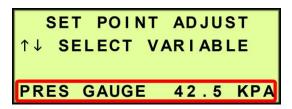
- **8.7.9.3** Press the Up (↑) & Down (↓) Arrow Buttons to change the value of the selected digit.
- **8.7.9.4** Press the Right (→) Arrow Button until the underscore disappears.
- 8.7.9.5 Press the Right (→)Arrow Button until the underscore appears under the correct setting (YES or NO).



8.7.9.6 Press the Up (↑) Arrow to confirm. This will lock in the new setting value.

8.7.10 Pressure Gauge –

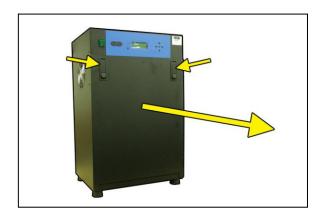
This is an information screen only and will not time-out, returning to the cycling information screens. It also



masks air Dryer alarms while in use. This screen can be used during Air Dryer troubleshooting.

8.8 Open Panel

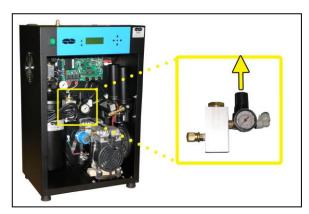
8.8.1 Open panel latches and remove the front panel.



8.9 Setting the System Pressure

With Compressor running:

- **8.9.1** Open Panel (see section 8.8).
- **8.9.2** Pull the Capacity Control Valve knob out.



- 8.9.3 Turn the knob until the reading on the PressureGauge is 345 KPa (50 PSI).
- **8.9.4** Push the knob in to lock.
- **8.9.5** Close Panel.

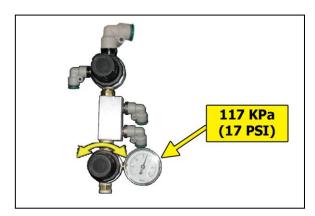


8.10 Setting the Static Pressure

- **8.10.1** Open Panel (see section 8.8).
- **8.10.2** Pull the Static Pressure Regulator knob out.



- 8.10.3 Turn knob until the reading on the PressureGauge is 117 KPa (17 PSI).
- **8.10.4** Push knob in to lock.
- **8.10.5** Close Panel.



8.11 Setting the Outlet Pressure

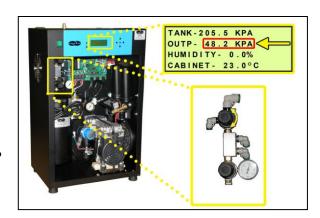
- **8.11.1** Open Panel (see section 8.8).
- **8.11.2** Pull the Outlet Pressure

 Regulator knob out (or loosen the retaining nut LP

 Models).



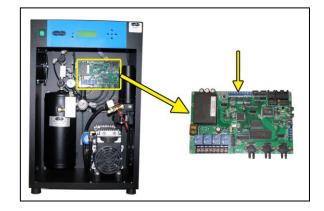
- **8.11.3** Turn knob until Outlet Pressure (**OUTP**) reading is at the desired setting.
- 8.11.4 Push knob in to lock (or tighten the retaining nut LP Models).



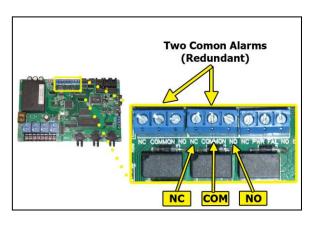
8.11.5 Close Panel.

8.12 Connecting to Common Alarm Terminals

- **8.12.1** Open Panel (see section 8.8).
- **8.12.2** Locate the external Common Alarm pins on the Control Board.

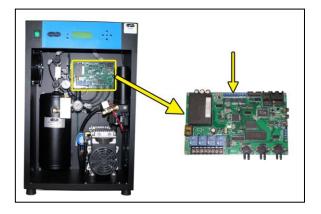


- 8.12.3 Wire the Common Alarm wire pair to the ControlBoard as required:
 - COMMON & NO for CLOSE ON ALARM operation.
 - NC & COMMON for OPEN ON ALARM operation.
- **8.12.4** Close Panel.



8.13 Connecting to Power Fail Alarm Terminals

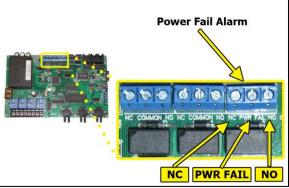
- **8.13.1** Open Panel (see section 8.8).
- **8.13.2** Locate the external Power Fail pins on the Control Board.



- **8.13.3** Wire the Power Fail Alarm wire pair to the Control Board as required:
 - PWR FAIL & NO for **CLOSE ON ALARM** operation.

8.13.4 Close Panel.

- NC & PWR FAIL for
- OPEN ON ALARM operation



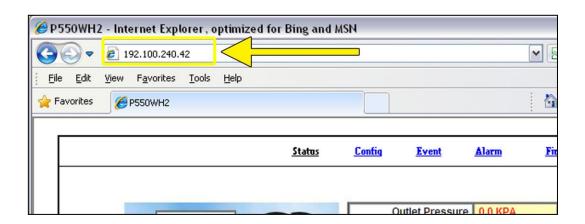
8.14 Connecting via Web Browser

If the Air Dryer IS connected to an IP network:

- The Air Dryer must be configured with a valid IP Address, Subnet Mask, and Gateway Address for the network.
- An IP cable is connecting the Air Dryer to the network.
- Use a computer that is on the same network as the air Dryer.
- Use Internet Explorer (6.0 or newer) or Mozilla Firefox Web Browser.

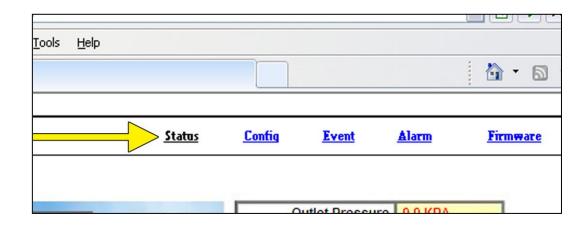
If the Air Dryer IS NOT connected to an IP network and has not been configured with IP information:

- Use the default IP Address (192.168.1.100) of the air dryer to connect.
- Use an IP Cable (may require Cross-over cable) plugged directly into a Laptop/PC and the other end plugged into the UTP Port on the control board of the Air Dryer.
- Configure the network card on the Laptop/PC to use the IP Address *192.168.1.101*. This will make the Laptop/PC compatible with the Air Dryer.
- Use Internet Explorer (6.0 or newer) or Mozilla Firefox Web Browser.
- **8.14.1** Type the IP Address of the P550W2 Series air Dryer in the Address text box of the web browser.



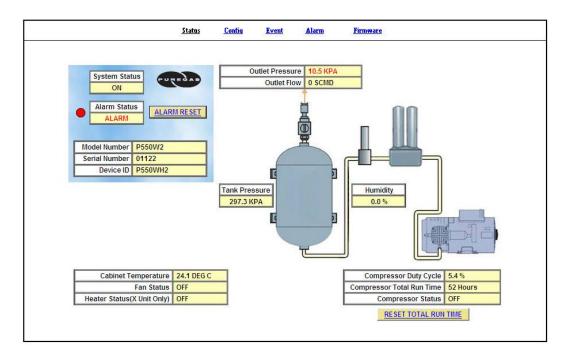
The Web Browser connection offers five (5) screens to the user:

- **Status Screen** Displays the readings and alarms monitored in the P550W2 Series Air Dryer. Provides remote ALARM RESET.
- **Config Screen** All configurations of Set Points, Setups, and Keyword can be made in this screen.
- Event Screen Displays all events such as alarms, changes made, and alarm resets registered by the P550W2 Series Air Dryer. This screen is informational only.
- Alarm Screen Displays all the Alarms registered by the P550W2
 Series Air Dryer. This screen is informational only.
- **Firmware Screen** Allows the user to upload any software updates or upgrades to the Air Dryer.
- **8.14.2** Click on the Menu Bar selection to access a specific screen.

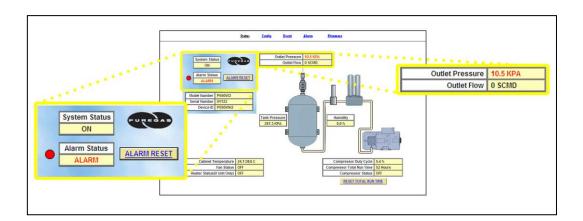


8.15 Using the Status Screen

Displays the readings and alarms monitored in the P550W2 Series Air Dryer. Provides remote ALARM RESET.



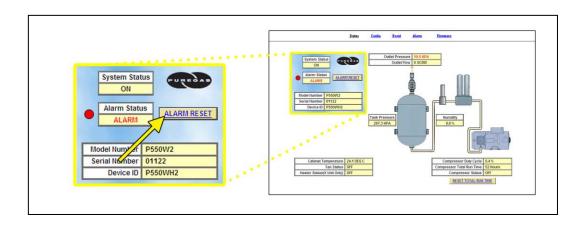
- Readings are displayed in **BLACK** unless an alarm is present.
- Alarms are displayed in **RED** next to the parameter in alarm.



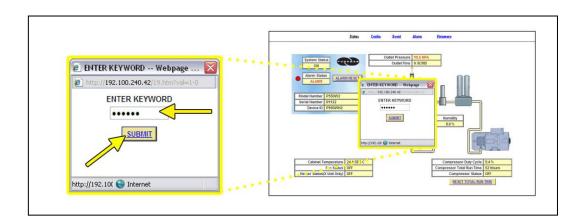
- Alarm Status will display **Alarm** if any alarms are present.
- Keyword validation is required for ALARM RESET and RESET TOTAL RUN TIME.

8.15.1 Resetting an Alarm

8.15.1.1 Click on the **ALARM RESET** Button to remotely reset Air Dryer alarms displayed on Status Screen.



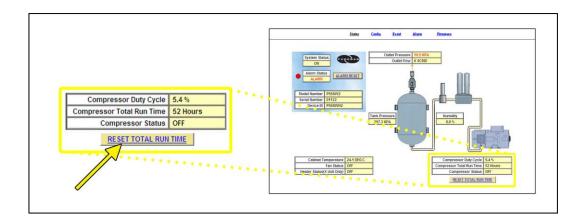
8.15.1.2 Enter Keyword (default is 123456)



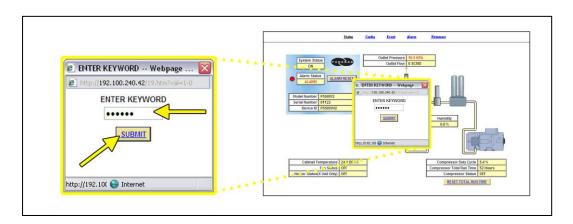
8.15.1.3 Click on **SUBMIT** Button when done.

8.15.2 Resetting Compressor Total Run Time

8.15.2.1 Click on the **RESET TOTAL RUN TIME** Button to remotely reset Compressor Total Run Time displayed on Status Screen.



8.15.2.2 Enter Keyword (default is 123456)

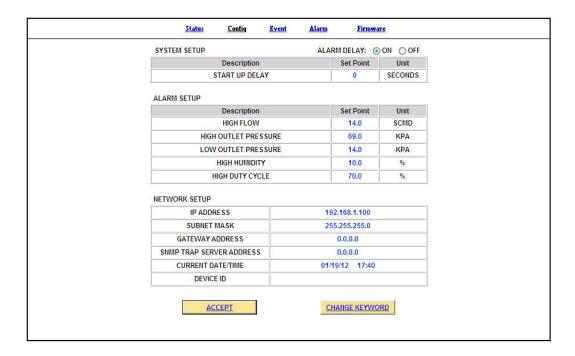


8.15.2.3 Click on **SUBMIT** Button when done.

8.16 Using the Config Screen

All configuration of Set Points, Setups, and Keyword can be made in this screen.

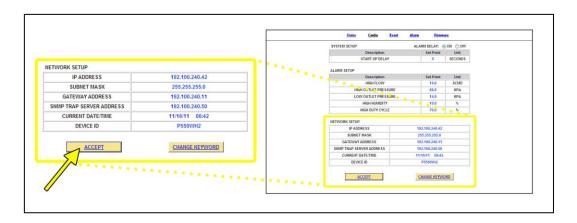
NOTE: Reference Appendix section 14.2 for Limits, Defaults, and Formats.



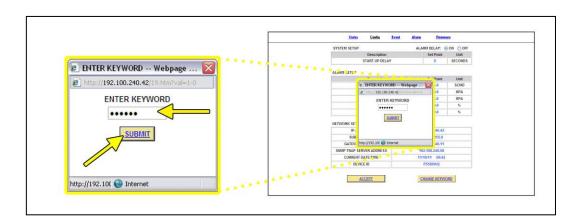
- Values in **BLUE** represent the current setting.
- The **ACCEPT** Button is used to change values.
- The **CHANGE KEYWORD** Button allows you to configure a new Keyword.
- Keyword validation is required for the following:
 - o Changing a Set Point value
 - Changing the Keyword

8.16.1 Changing a Set Point or Setup value:

- **8.16.1.1** Click on the value to change.
- **8.16.1.2** Type in the new value.



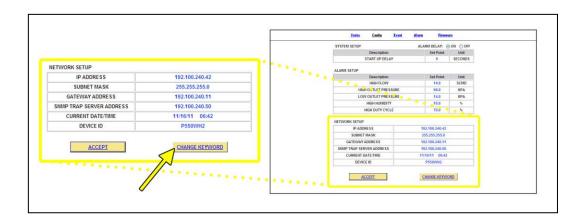
- **8.16.1.3** Click the **ACCEPT** Button when done.
- **8.16.1.4** Enter Keyword (default is 123456)



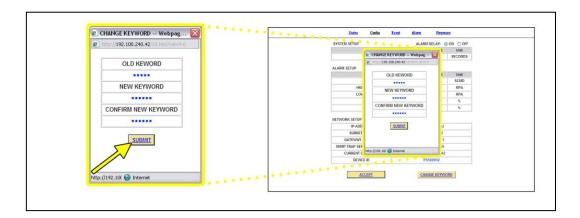
8.16.1.5 Click on **SUBMIT** Button when done. This will lock in the new setting value.

8.16.2 Changing the Keyword

8.16.2.1 Click on **CHANGE KEYWORD** Button to change the keyword.



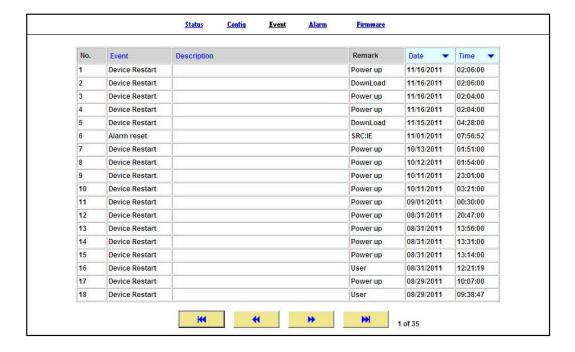
- **8.16.2.2** Type the Old Keyword.
- **8.16.2.3** Type the New Keyword.
- **8.16.2.4** Type the Confirm New Keyword.



8.16.2.5 Click on **SUBMIT** Button to confirm. This will lock in the new setting value.

8.17 Using the Event Screen

Displays all events such as alarms, changes made, and alarm resets registered by the P550W2 Series Air Dryers. This screen is informational only.



- Click on the column headings to sort data according to that column.
- Click the Arrow Buttons to navigate through all the event log pages.

8.18 Using the Alarm Screen

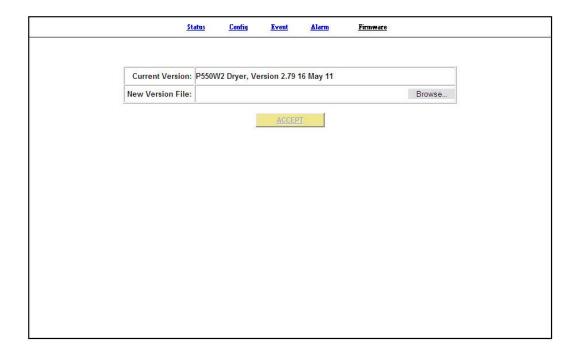
Displays all the Alarms registered by the P550W2 Series Air Dryers. This screen is informational only.



- Click on the column headings to sort data according to that column.
- Click the Arrow Buttons to navigate through all the alarm log pages.

8.19 Using the Firmware Screen

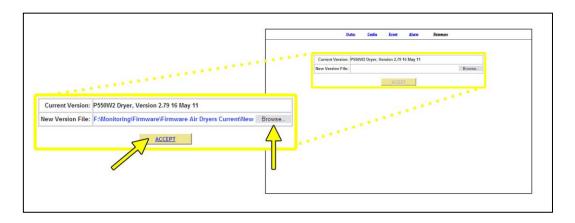
Displays the current firmware version and date of the P550W2 Series Air Dryers.



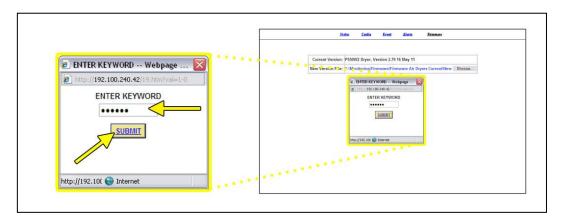
- Current Version: Displays the current firmware version of the P550W2 Air Dryer.
- New Version File: Displays the new location and new firmware version chosen.
- The **BROWSE** Button allows you to locate the new firmware file.
- The **ACCEPT** Button is used to change values.
- Keyword validation is required to update firmware.

8.19.1 Updating the Firmware:

8.19.1.1 Click on **BROWSE** Button to locate the firmware file.



- **8.19.1.2** Navigate and Select the correct .bin file. Press the **OK** Button.
- **8.19.1.3** Click the **ACCEPT** Button when done
- **8.19.1.4** Enter Keyword (default is 123456)



8.19.1.5 Click on **SUBMIT** Button when done. This will lock in the new firmware version.

8.20 Connecting via SNMP

Using SNMP to connect and communicate with the P550W Series Air Dryer is dependent upon the specific SNMP Management software used on your network. This software requires a SNMP Definition & Configuration File (MIB file) in order to properly communicate with the Air Dryer.

The files for the P550W Series Air Dryers can be downloaded from our website (Puregas.com) under the Product Support section SNMP Files link. It is necessary to import this file into your SNMP operating software.

NOTE: Reference Appendix section 14.3 for a list of SNMP Parameters including Limits, Defaults, and Formats.

9. Testing Your Dryer

9.1 Safety & Warning Information



WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. Many procedures performed during installation, operation, testing, and maintenance 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!

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.



CAUTION!

Depressurizing the air Dryer may be necessary before performing certain procedures. **NEVER** remove pressure sensing tubes from the control board without depressurizing the air Dryer first, or **damage to the control board will occur.**

9.2 Measuring Compressor Amp Draw



WARNING!

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

With the Compressor running:

- **9.2.1** Open Panel (see section 8.8).
- **9.2.2** Locate wire #5 coming directly from the compressor.



9.2.3 Use an Amp Meter to measure the running amps.

With the compressor running, the running amps should measure **5.0 amps or below**.



9.2.4 Close Panel.

If the compressor measures over 5.0 running amps, see section 13.16 for troubleshooting information.

9.3 Measuring Compressor Voltage



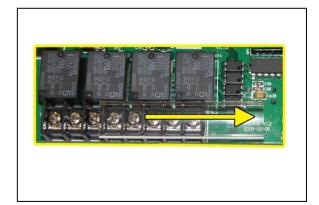
WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. It is highly recommended that you remove all jewelry before performing any procedures.

- **9.3.1** Open Panel (see section 8.8).
- **9.3.2** Locate the relay terminal block on the control board inside the air Dryer.



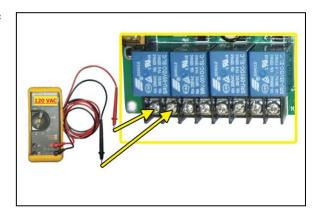
9.3.3 Slide off clear plastic terminal block cover.



With the Compressor running:

9.3.4 Use a Voltmeter to measure across the board terminals where wires #5 and #6 are connected.

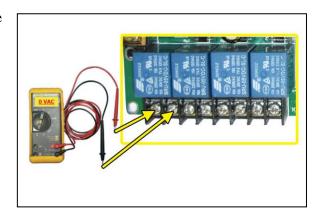
The voltage should measure **110 - 125 VAC**.



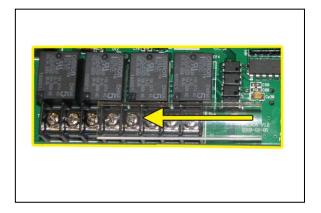
With the Compressor NOT running:

9.3.5 Use a Voltmeter to measure across the board terminals were wires #5 and #6 are connected.

The voltage should measure **0 VAC** (±10%).



- **9.3.6** Replace the clear plastic terminal block cover.
- **9.3.7** Close Panel.



If any of the voltage measurements are different than indicated above, the Control Board is defective and should be replaced. See sections 11.1 for part detail and 11.5 for ordering information.

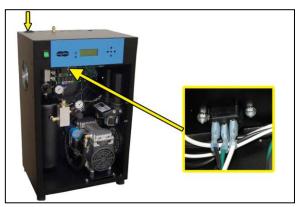
9.4 Measuring Incoming Voltage



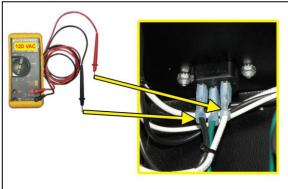
WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. It is highly recommended that you remove all jewelry before performing any procedures.

- **9.4.1** Open Panel (see section 8.8).
- 9.4.2 Locate the IncomingPOWER connector inside the Dryer.



- **9.4.3** Use a Voltmeter to measure the voltage (inside Dryer):
 - 9.4.3.1 Place the probes
 between the Power
 connector and terminal
 insulation so that they
 touch the metal contacts for
 BLACK (BROWN) wire
 and WHITE (BLUE) wire.



The voltage should measure **110 - 125 VAC** for the P550W2, P550W2H and P550W2LP or **208 - 253 VAC** for the P552W2, P552W2H and P552W2LP.

9.4.4 Close Panel.

If the incoming voltage measures less than indicated above, it is recommended that steps be taken at your facility to increase the power to the recommended level of voltage.

9.5 Measuring Voltage from AC Step-Down Transformer

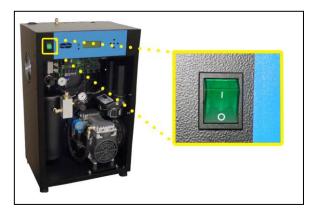


WARNING!

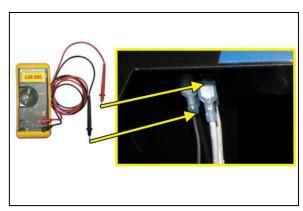
Extreme care should be exercised to avoid contact with live electrical circuits. It is highly recommended that you remove all jewelry before performing any procedures.

For P552W2, P552W2H and P552W2LP Dryers:

- **9.5.1** Open Panel (see section 8.8).
- **9.5.2** Locate the **POWER** Switch.



- **9.5.3** Use a Voltmeter to measure the voltage (inside Dryer):
 - 9.5.3.1 Place the probes
 between the Power
 Switch and terminal
 insulation so that they
 touch the metal contacts
 for BLACK (BROWN)



wire #1 and WHITE (BLUE) wire #2.

9.5.4 Close Panel.

The voltage should measure 110 - 125 VAC.

If the voltage at the power switch measures less than 110 VAC and the incoming power voltage is within specifications, it is recommended that the AC transformer is replaced. See section 11.5 for ordering information

9.6 Testing Consistent Heatless Dryer Cycling



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.

With the Compressor running:

- **9.6.1** Open Panel (see section 8.8).
- **9.6.2** Place a piece of insulating material over the compressor for this test (*i.e.* piece of cardboard).



9.6.3 Locate the heatless Dryer purge solenoids inside the air Dryer



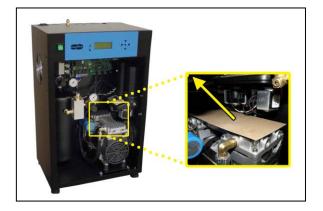
Tower 2

- 9.6.4 Place your hand beneath the purge solenoids to feel for purging air. Air should:
 - Purge from Tower 1 side
 - Purge from Tower 2 side30 Seconds later
 - Purge from Tower 1 side30 Seconds later
 - ...and so on.



Tower 1

- **9.6.5** Remove insulating material from top of the compressor.
- **9.6.6** Close Panel.



If the Heatless Dryer is not cycling consistently as described, see section 13.13 for troubleshooting information.

9.7 Testing Unloader Valve

With the Compressor running:

9.7.1 Locate the Unloader Valve on the right side of the heatless Dryer.



9.7.2 Place your hand over the Unloader Valve to feel for air flow.

Air should **NOT** flow from this fitting continuously. Air should only be released in a short burst when the compressor shuts off.



If air flows from this valve continuously the Unloader Valve is either defective and should be replaced. See sections 11.3 for part detail and 11.5 for ordering information.

9.8 Measuring Heatless Dryer Solenoid Voltage

With the Compressor running:

9.8.1 Locate the Heatless Dryer Cycle Timer.

The timer has three (3) sets of terminals (from left-to-right):

"VALVE" – Left solenoid

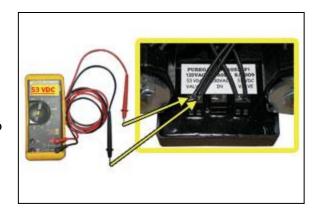
"**IN**" – Incoming power

"VALVE" - Right solenoid



9.8.2 Use a Voltmeter to measure the DC voltage across each set of "VALVE" terminals.

Continue to measure for up to 45 seconds if no voltage is initially measured.



The voltage should measure 53 Volts DC.

If the voltage does not measure 53 Volts DC, this is an indication that the Cycle Timer is defective and should be replaced. See sections 11.3 for part detail and 11.5 for ordering information.

9.9 Testing Air Dryer Fan

NOTE: To test the fan, the cabinet temperature must be above 32° C.

9.9.1 Place your hand outside the Dryer to feel for air being blown outwards.



NOTE: The fan will turn OFF when the cabinet temperature is below 27° C.

If the fan is not blowing air outwards as described:

- *Verify the cabinet temperature is above 32 °C.*
- Check for loose wiring. Refer to the Wiring Diagram (section 14.1)
- Replace defective fan (see sections 11.1 for part detail and 11.5 for ordering information).
- Replace defective control board if fan does not respond properly to temperature changes (see sections 11.1 for part detail and 11.5 for ordering information).

9.10 Testing Compressor ON/OFF Cycling

9.10.1 When the Tank Screen(8.5.5.1) appears on the display, press the HOLDButton on the Front Panel to freeze that screen.



With Compressor running:

9.10.2 Verify the compressor shuts down when the tank pressure (TANK) reaches 345 KPa.

If the tank pressure (**TANK**) fails to reach 345 KPa, see section 13.15 for troubleshooting information.



With Compressor NOT running:

CAUTION: Be careful when removing Air hose. System is pressurized.

9.10.3 Depressurize air Dryer (see section 8.3.1)

9.10.4 Verify the compressor turns on when the tank pressure (TANK) falls to 138KPa.



9.10.5 Reconnect air hose.

If the Compressor Cycling fails either test described, it indicates a problem with the Control Board which will need to be replaced. See sections 11.1 for part detail and 11.5 for ordering information.

9.11 Testing High Duty Cycle Alarm

CAUTION: Be careful when removing Air hose. System is pressurized.

NOTE: For this test, allow the Display Screen to cycle through the information screens.

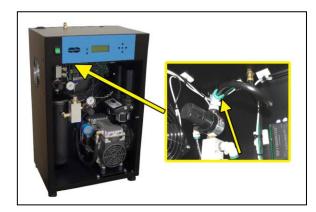
- **9.11.1** Allow the Compressor to run and then turn off.
- 9.11.2 Immediately after the

 Compressor turns off,

 disconnect the hose indicated

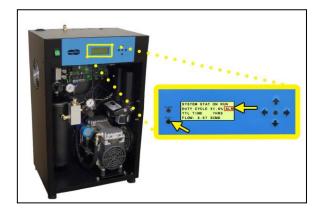
 until the Compressor starts

 running again.



A High Duty Cycle alarm should appear on the System Screen.

- **9.11.3** Re-connect the hose.
- **9.11.4** Press the **RESET Button** to clear the alarm.

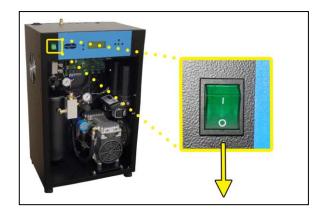


If you are unable to create a High Duty Cycle alarm as described, see section 13.18 for troubleshooting information.

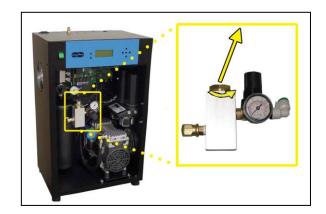
9.12 Testing Humidity Alarm and System Shutdown

CAUTION: Be careful when removing Air hose. System is pressurized.

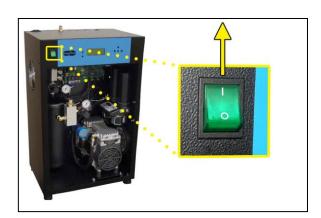
9.12.1 Power the air Dryer **OFF**.



- **9.12.2** Depressurize air Dryer (see section 8.3.1)
- 9.12.3 Unscrew and remove the Humidity Sensor from the Humidity Block.



9.12.4 Power the air Dryer **ON**.

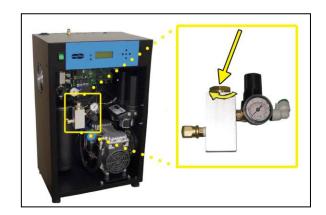


Allow the Humidity reading to rise over 10.0%.

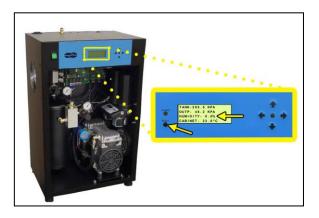
9.12.5 After three (3) minutes, verify that a Humidity Alarm appears and the Dryer goes into SHUTDOWN mode.



9.12.6 Replace the Humidity Sensor into the Humidity Block.



9.12.7 Press the **RESET Button** to clear the Humidity alarm.



If you are unable to create a Humidity / Shutdown alarm as described, see section 13.10 for troubleshooting information.

9.13 Testing High Outlet Pressure Alarm

9.13.1 Make a note of the current Outlet Pressure (**OUTP**) reading.



- 9.13.2 Pull the Outlet PressureRegulator knob out (or loosen the retaining nut LP Models).
- 9.13.3 Turn knob clockwise untilOutlet Pressure (OUTP)reading climbs over 69.0



KPa. (over 51.71 KPa - LP Models).

After one (1) minute, the High Pressure Alarm should appear on the display.

9.13.4 Turn Outlet PressureRegulator knob counter-clockwise until OutletPressure (OUTP) readinglowers to the readingrecorded in step 9.13.1



9.13.5 Push knob in to lock (or tighten the retaining nut – LP Models).

9.13.6 Press the **RESET Button**.

If you are unable to create a High Outlet Pressure Alarm as described, see section 13.6 for troubleshooting information.

9.14 Testing Low Outlet Pressure Alarm

9.14.1 Make a note of the current Outlet Pressure (**OUTP**) reading.



- 9.14.2 Pull the Outlet PressureRegulator knob out (or loosen the retaining nut LP Models).
- 9.14.3 Turn knob counterclockwise until OutletPressure (OUTP) reading



drops below 14.0 KPa (below 2.07 KPa – LP Models).

After one (1) minute, the Low Pressure Alarm should appear on the display.

9.14.4 Turn Outlet Pressure
Regulator knob clockwise
until Outlet Pressure (OUTP)
reading rises to the reading
recorded in step 9.14.1



- 9.14.5 Push knob in to lock (or tighten the retaining nut LP Models).
- **9.14.6** Press the **RESET Button**.

If you are unable to create a Low Outlet Pressure Alarm as described, see section 13.8 for troubleshooting information.

9.15 Testing Air Fittings & Hoses for Leaks

NOTE: This is a general procedure that can be applied to any fitting or hose that has air pressure in it. **DO NOT SOAP TEST THE HUMIDITY SENSOR FITTING. DAMAGE TO THE SENSOR MAY OCCUR.**

With Compressor NOT running:

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

With Compressor running:

9.15.2 Use a 1-inch paint brush to dab soapy water on the air fitting or hose connection to be tested.

If air bubbles appear at the connection, this indicates that air is leaking from the connection.



If any leaks are detected, take steps to seal them off (as necessary):

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

10. Maintaining Your Dryer

In order to ensure that your P550W2 Series Air Dryer continues to operate efficiently and reliably, PUREGAS recommends performing the following maintenance procedures at the specified Six Month and 8,000 Hour intervals.

It is also recommended that you print out the included *Six Month Maintenance* (section 10.2) and 8,000 Hour Maintenance (section 10.3) log sheets and record all completed maintenance for historical tracking and reference purposes.

The log sheets include a Section reference column which indicates the User's Guide section containing the information about the specific procedure. Please refer to these sections for detailed procedural information.

NOTE: When operating at higher ambient temperatures, it is recommended that maintenance be performed more frequently.

NOTE: After 16,000 hours of run time, PUREGAS recommends sending in your compressors and heatless dryers for a complete and comprehensive rebuild by our Service Department technicians. *See sections 12.1 and 12.2 for information on services and contacting PUREGAS.*

10.1 Safety & Warning Information



WARNING!

Extreme care should be exercised to avoid contact with live electrical circuits. Many procedures performed during installation, operation, testing, and maintenance 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!

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.



CAUTION!

SHUT DOWN IMMEDIATELY FOR REPAIRS if the air compressor shows any evidence of overheating or presents excessive noise.



CAUTION!

Depressurizing the air Dryer may be necessary before performing certain procedures. **NEVER** remove pressure sensing tubes from the Control Board without depressurizing the air Dryer first, or **damage to the Control Board will occur.**



IMPORTANT!

Performing routine maintenance as outlined in the *Maintaining Your Dryer* section will ensure optimal performance over the lifecycle of your air Dryer.



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.



IMPORTANT!

After performing any maintenance, always soap test pressure fittings to check for air leaks. Also, check for any loose or disconnected wiring.

10.2 Six Month Maintenance

MODEL:	LOCATION NAME:					
SERIAL NUMBER:	ADDRESS:					
DATE INSTALLED:						
			Maintenar	nce Interva	l (Months)	
Procedure	Section	6	12	18	24	30
Install Six Month Maintenance Kit	11.4					
Read & Record Flow Rate (FLOW)	8.5.5.2					
Measure & Record	9.2					
Compressor Amp Draw	9.2					
Measure & Record Incoming Voltage						
(must be 110 - 125 VAC for P550W2, P550W2H						
and P550W2LP models and	9.4					
must be 208 - 253 VAC for P552W2, P552W2H						
and P552W2LP models)						
Test High & Low Outlet Pressure Alarms	9.13 &					
	9.14	Ц				
Set System Pressure (345 KPa / 50 PSI)	8.8					
Set Static Pressure (117 KPa / 17 PSI)	8.10					
Set Outlet Pressure	8.11					
Test Consistent Heatless Dryer Cycling	9.6					
Test Fan	9.9					
Test Compressor ON/OFF Cycling	9.10					
Test High Duty Cycle Alarm	9.11					
Test Humidity Alarm & System Shutdown	9.12					
Test Air Fittings for Leaks	9.15					
Visually Inspect Inside & Outside of Unit for Loose						
Wiring or Hardware						
Maintenance Perf	formed by:					
Date of Ma	intenance:					

NOTE: COPY OR PRINT THIS PAGE AND KEEP IT WITH THE AIR DRYER

10.3 8,000 Hour Maintenance

Under typical operating conditions:

8,000 hours of run time will occur between one (1) and two (2) years of use.

This will be identified by a **TTL TIME** Alarm on the display.

MODEL:	LOCATION NAME:
SERIAL NUMBER:	ADDRESS:
DATE INSTALLED:	

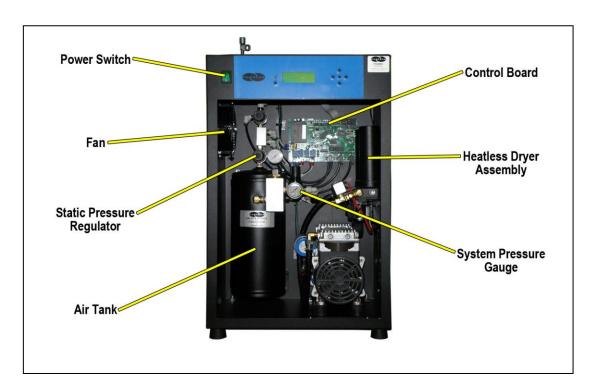
Maintenance Interval (Hours)

Procedure	Section	8,000	16,000	24,000	32,000	40,000
Install 8,000 Hour Maintenance Kit	11.4					
Read & Record Flow Rate (FLOW)	8.5.5.2					
Measure & Record	9.2					
Compressor Amp Draw	7.2					
Set System Pressure (345 KPa / 50 PSI)	8.8					
Set Static Pressure (117 KPa / 17 PSI)	8.10					
Set Outlet Pressure	8.11					
Test Consistent Heatless Dryer Cycling	9.6					
Test Compressor ON/OFF Cycling	9.10					
Test Air Fittings for Leaks	9.15					
Reset TTL TIME Reading to Zero	8.7.6					
Visually Inspect Inside & Outside of Unit for Loose						
Wiring or Hardware						
Maintenance Peri	ormed by:					
Date of Ma	intenance:					

NOTE: COPY OR PRINT THIS PAGE AND KEEP IT WITH THE AIR DRYER

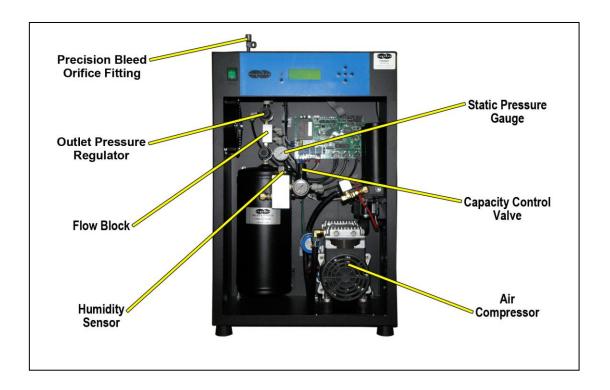
11. Replacement Parts & Accessories

11.1 Dryer Parts



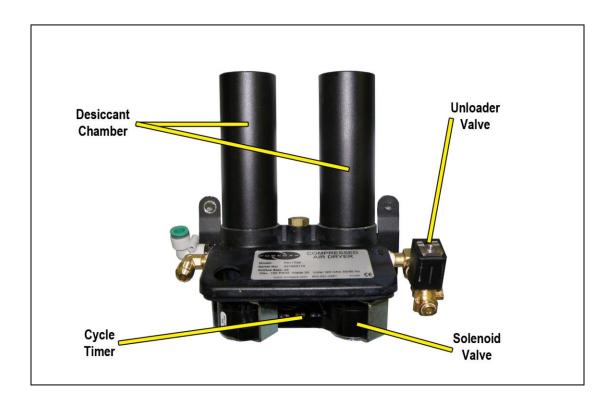
Description	Part Number	Quantity	Recommend Spare
Power Switch	M038428	1	
Fan	P4080	1	
Static Pressure Regulator	P010279	1	
Air Tank		1	
Control Board -			
Standard Pressure	P011920	1	√ (1)
Low Pressure	P012227		
Heatless Dryer Assembly	See section 11.3 for detail		detail
System Pressure Gauge (0-100 PSI) (0-680 KPa)	P010695	1	

11.2 Dryer Parts cont.



Description	Part Number	Quantity	Recommend Spare
Precision Bleed Orifice Fitting	P013349	1	
Outlet Pressure Regulator -			
Standard Pressure	P010279	1	
Low Pressure	P012316		
Flow Block		1	
Humidity Sensor	In 6-Month Maintenance Kit. See section 11.4 for detail.		
Static Pressure Gauge (0-30 PSI) (0-200 KPa)	P8345	1	
Capacity Control Valve	P010492	1	✓ (1)
Air Compressor Assembly	P011639	1	_

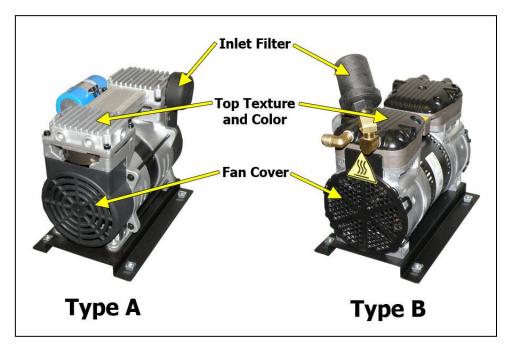
11.3 Heatless Dryer Assembly Parts



Description	Part Number	Quantity	Recommend Spare
Heatless Dryer	P011738	1	
Desiccant Chamber	P2004036	2	
Cycle Timer	P010530F1	1	
Unloader Valve	P011839	1	
Solenoid Valve	In 8,000 Hour Maintenance Kit. See section 11.4 for detail.		it. See section

11.4 Accessories for Your Dryer

	Description	Part Number	Recommend
	Zeseripuon	1 41 0 1 (41111001	Spare
	Kits for units with "Type A	A" Compressor	
(See de	etail comparison on next page to d	etermine Compress	sor Type)
	Six Month Maintenance Kit		
	Includes air intake filter, compressor	P011798	✓ (2)
	muffler, and humidity sensor.		
-00 *.0	8,000 Hour Maintenance Kit		
1.3	Includes heatless Dryer maintenance kit	P011673	√ (1)
00	and compressor maintenance kit.		
	Kits for units with "Type I	3" Compressor	
(See de	etail comparison on next page to d	etermine Compress	sor Type)
H	Six Month Maintenance Kit		
	Includes air intake filter, compressor	P013478	✓ (2)
	muffler, and humidity sensor.		
	8,000 Hour Maintenance Kit		
	Includes heatless Dryer maintenance kit	P013479	✓ (1)
	and compressor maintenance kit.		
	Additional Access	sories	
	Universal Rack Mounting Kit		
	Includes mounting brackets and	P011674	
	hardware for 19" or 23" racks.		
1	Wall Mounting Kit		
	Includes mounting brackets and	P011773	
The second second	hardware.		
PRINCES CONTROL - 1-1-1	Cycle Kit	D00022W	
	Allows multiple dryers to be cycled.	P08033W	
O	Cycle Kit Interface Kit	P012341	



Compressor Comparison to determine correct Kit Part #

11.5 Ordering Parts from PUREGAS



IMPORTANT!

Instruction for the replacement of individual listed components goes beyond the scope of this User's Guide and will not be covered. Please refer to the information included with the specific replacement part for this instruction.

Once you have identified your required parts and accessories, contact the PUREGAS Inside Sales / Service department to order:

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

Fax – (303) 657-2205

sales@puregas.com

parts@puregas.com

12. Service & Repair

Only PUREGAS can offer factory direct rebuilds backed by a 6 month factory warranty.

- 2 week turnaround time
- Estimates available upon request
- Minimum service charge fee applies

12.1 Services Offered

• Piston Compressor Rebuild

- Replace motor bearings, piston rod assemblies, and install a complete compressor maintenance kit.
- o Test air flow, air pressure, and electrical performance

• Heatless Dryer Rebuild

- Replace desiccant, o-rings, check valves, springs, and complete solenoid assembly
- Test proper component operation

• Desiccant Tower Repack

- o Clean out tower and replace desiccant, filter, and o-ring
- **Circuit Board Repair** (Limited to current model boards only)
- Complete Dryer Repair

12.2 Initiating a Service Transaction

- Contact our Parts & Service Department at **1-800-521-5351** (**option 3**) to obtain a Return Authorization (RA) number.
- Carefully package the item(s) to be returned.
- Mark the Return Authorization (RA) number on the outside of the shipping container.
- Include the main address and phone number of the individual to contact for related inquiry and follow-up information.
- Include the purchase order number.

13. Troubleshooting Your Dryer

13.1 Before You Call PUREGAS

PLEASE READ THIS SECTION FIRST. It is important that you use the following sections in order to diagnose and attempt to fix the problem with your air Dryer before placing a call to PUREGAS Technical Support.

This troubleshooting guide is intended to simplify the isolation of problems, present possible causes, provide test procedures for verification, and suggest corrective actions to restore the air Dryer back to normal operation. Each section begins with the most likely cause(s) of the issue. Otherwise, they start from the simplest possibilities and progress to more complicated ones.

This troubleshooting guide is designed to be easy to follow and very effective when used properly. It is suggested to always start at the beginning of the specific problem section and continue in sequence, following the procedures indicated.

13.2 Safety & Warning Information



WARNING!

For your safety, all the information in this User's Guide must be followed to minimize the risk of electrical shock, and prevent property damage or personal injury.



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, operation, testing, and maintenance 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.



CAUTION!

Depressurizing the air Dryer may be necessary before performing certain procedures. **NEVER** remove pressure sensing tubes from the Control Board without depressurizing the air Dryer first, or **damage to the Control Board will occur.**



CAUTION!

Do not test the Humidity Sensor with an ohm meter or apply any DC voltage. This will render the Humidity Sensor defective.



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.

13.3 Air Dryer Won't Power ON

Possible Cause	Check	Corrective Action
POWER Switch in	Verify POWER switch	Turn POWER switch to
OFF position	is in the ON position	the ON position (section
	(section 8.4)	8.4)
No incoming voltage to	Measure incoming	Troubleshoot facility
air Dryer	voltage (section 9.4)	power supply to air
		Dryer

13.4 Display Screen Not Functioning

Possible Cause	Check	Corrective Action
Dryer experienced a		Power the air Dryer
power spike		OFF for 15+ seconds.
		Power the air Dryer ON .
Ribbon cable	Verify ribbon cable	Reconnect the ribbon
disconnected	from the decal is	cable properly.
	connected at the display	
	board	

13.5 High Outlet Pressure Alarm

Possible Cause	Check	Corrective Action
Outlet Pressure set too	Verify Outlet Pressure	Adjust Outlet Pressure
high	(OUTP) reading	Regulator (section 8.11)
	(section 8.5.5.1)	_
High Outlet Pressure	Verify High Outlet	Raise High Outlet
Alarm set point too low	Pressure Alarm set point	Pressure Alarm set point
	(section 8.7.2)	(section 8.7.2)

13.6 Can't Create a High Pressure Alarm

Possible Cause	Check	Corrective Action
Defective Outlet	Verify that the Outlet	Replace Outlet Pressure
Pressure Regulator	Pressure Regulator can	Regulator if unable to
	be adjusted	adjust pressure
	(section 8.11)	(section 11.2)
High Outlet Pressure	Verify High Outlet	Adjust Outlet Pressure
Alarm set point higher	Pressure Alarm set point	Regulator so that Outlet
than default setting		Pressure (OUTP)
		reading climbs over
		verified set point
		(section 9.13)
Defective Control Board	Verify that the Outlet	Replace Control Board
	Pressure (OUTP)	(section 11.1) if Outlet
	reading is higher than	Pressure (OUTP)
	the High Outlet Pressure	reading is over verified
	Alarm set point (above)	High Outlet Pressure
		Alarm set point for more
		than 1 minute and fails
		to create an alarm.

13.7 Low Outlet Pressure Alarm

Possible Cause	Check	Corrective Action
Outlet Pressure set too	Verify Outlet Pressure	Adjust Outlet Pressure
low	(OUTP) reading	Regulator (section 8.11)
	(section 8.5.5.1)	
High Flow condition	Verify Flow Rate	Troubleshoot High Flow
	(FLOW) reading is not	condition
	higher than expected	(section 13.11)
	(section 8.5.5.2)	
Low Outlet Pressure	Verify Low Outlet	Lower the Low Outlet
Alarm set point too high	Pressure Alarm set point	Pressure Alarm set point
	(section 8.7.3)	(section 8.7.3)
Leak in the air system	With no outlet flow, test	Tighten any loose
	fittings and hoses for	connections as required
	leaks (section 9.15)	

13.8 Can't Create a Low Pressure Alarm

Possible Cause	Check	Corrective Action
Defective Outlet	Verify that the Outlet	Replace Outlet Pressure
Pressure Regulator	Pressure Regulator can	Regulator if unable to
	be adjusted	adjust pressure
	(section 8.11)	(section 11.2)
Low Outlet Pressure	Verify Low Outlet	Adjust Outlet Pressure
Alarm set point lower	Pressure Alarm set point	Regulator so that Outlet
than default setting		Pressure (OUTP)
		reading drops below
		verified set point
		(section 9.14)
Defective Control Board	Verify that the Outlet	Replace Control Board
	Pressure (OUTP)	(section 11.1) if Outlet
	reading is lower than the	Pressure (OUTP)
	Low Outlet Pressure	reading is under verified
	Alarm set point (above)	Low Outlet Pressure
		Alarm set point for more
		than 1 minute and fails
		to create an alarm.

13.9 High Humidity



CAUTION!

Do not test the Humidity Sensor with an ohm meter or apply any DC voltage. This will render the Humidity Sensor defective.

Possible Cause	Check	Corrective Action
Low System Pressure	Verify System Pressure	Adjust System Pressure
	(section 8.9)	(section 8.9)
Low Flow Rate	Verify Flow Rate	Install the included
	(FLOW) reading is low	Precision Bleed Orifice
	(section 8.5.5.2)	fitting to maintain a
		constant air flow.
		(section)
High Humidity Alarm	Verify High Humidity	Raise High Humidity
set point too low	Alarm set point	Alarm set point
	(section 8.7.4)	(section 8.7.4)
	If Flow Rate is low,	Over 10% not
	allowing a higher alarm	recommended
	set point (up to 10%)	
	will allow Dryer to run	
	within acceptable levels.	
Defective Humidity	Perform the Testing	Troubleshoot Can't
Sensor	Humidity Alarm and	Create a High Humidity
	System Shutdown test	Alarm / Shutdown
	(section 9.12)	condition
	77 10	(section 13.10)
Heatless Dryer not	Verify consistent	Troubleshoot
cycling between towers	Heatless Dryer cycling	Inconsistent Heatless
	(section 9.6)	Dryer Cycling condition
	TT 1 TT 11.	(section 13.13)
Defective Control Board	Unplug Humidity	If Humidity did not drop
	Sensor from Control	to 0%, replace Control
	Board (see section 11.1	Board (section 11.1)
	for Board location)	
	Humidity reading should	
	drop to 0%	

13.10 Can't Create a High Humidity Alarm / Shutdown

These troubleshooting steps assume that the Humidity Element is removed from the Humidity Block during the *Testing Humidity Alarm and System Shutdown* (section 9.12) procedures.

Possible Cause	Check	Corrective Action
Humidity Sensor Cable	Verify that Humidity	Connect Humidity
disconnected	Sensor cable is	Sensor cable
	connected to the Control	
	Board	
Defective Humidity	Verify that Humidity	Replace Humidity
Sensor	reading fails to climb	Sensor (section 11.2)
	higher than 15% or	
	creates sporadic	
	readings	
Defective Control Board	Verify that Humidity	Replace Control Board
	reading is over 15% for	if no alarm is created
	more than 1 minute	and system does not shut
		down (section 11.1)

13.11 High Flow Rate Alarm

Possible Cause	Check	Corrective Action
Air leak in downstream	Verify Flow Rate	Fix downstream
cable outside of Dryer	(FLOW) reading is not	problem
	higher than expected	
	(section 8.5.5.2)	
Air leak inside of Dryer	Test fittings and hoses	Reconnect or replace
	for leaks (section 9.15)	bad fitting / hose
High Flow Alarm set	Verify High Flow Alarm	Raise High Flow Alarm
point too low	set point	set point (section 8.7.1)
	(section 8.7.1)	

13.12 High Cabinet Temperature Alarm

Possible Cause	Check	Corrective Action
Fan Failure	Verify fan is running	Check for loose fan
	(section 9.9)	wiring (section 14.1)
		Replace defective fan
		(section 11.1)
High Ambient	Verify temperature of	Lower the ambient
Temperature	Dryer operating	temperature of the
	location. Recommended	Dryer's operating
	ambient temperature is	location
	5°-30°C.	

13.13 Inconsistent Heatless Dryer Cycling

Possible Cause	Check	Corrective Action
Defective Solenoid	Measure voltage going	If 53 VDC IS present,
Valve	to the Heatless Dryer	replace Solenoid Valves
	Solenoid Valves	included in the 8,000
	(section 9.8)	Hour Maintenance Kit
		(section 11.4)
Defective Cycle Timer	Measure voltage going	If 53 VDC IS NOT
	to the Heatless Dryer	present, replace the
	Solenoid Valves	Cycle Timer
	(section 9.8)	(section 11.3)

13.14 Compressor Doesn't Operate

Possible Cause	Check	Corrective Action
Defective compressor	Measure compressor	If voltage is good,
	voltage	replace compressor
	(section 9.3)	(section 11.2)
		or send it in for repair
		(section 12.)
Defective control board	Measure compressor	If measurements are
	voltage	incorrect, replace
	(section 9.3)	control board (section
		11.1)
System is in Shutdown	On the Display Panel,	Press the RESET
state	verify that the system is	Button
	in SHUTDOWN state	

13.15 Compressor Won't Build Pressure

Possible Cause	Check	Corrective Action
Low System Pressure	Verify System Pressure	Adjust System Pressure
	(section 8.9)	(section 8.9)
Defective Unloader	Test Unloader Valve	Replace Unloader Valve
Valve	operation (section 9.7)	(section 11.3)
	If this is continuously	
	flowing high amounts of	
	air, the Unloader Valve	
	is defective.	
Leak in air system	Check all hoses and	Connect, tighten, or
	fittings between	replace leaking
	compressor and Air	component
	Tank for air leaks	
	(section 9.15)	

13.16 Compressor Excessive AMP Draw

Possible Cause	Check	Corrective Action
Restriction in air line	Remove Discharge Hose	If measurement is below
	from compressor (hose	the recommended amps,
	to the heatless Dryer)	trace hoses from
		compressor to Unloader
	Re-measure Compressor	Valve looking for
	AMP Draw	restrictions or kinks
	(section 9.2)	
Compressor failing	Remove Discharge Hose	If measurement is still
	from compressor (hose	above the recommended
	to the heatless Dryer)	amps, replace the
		compressor
	Re-measure Compressor	(section 11.2)
	AMP Draw	or send it in for repair
	(section 9.2)	(section 12.)

13.17 High Duty Cycle Alarm

Possible Cause	Check	Corrective Action
Low System Pressure	Verify System Pressure	Adjust System Pressure
	(section 8.9)	(section 8.9)
High Flow condition	Verify Flow Rate	Troubleshoot High Flow
	(FLOW) reading is not	condition
	higher than expected	(section 13.11)
	(section 8.5.5.2)	
Defective Unloader	Test Unloader Valve	Replace Unloader Valve
Valve	operation (section 9.7)	(section 11.3)
	If this is continuously	
	flowing high amounts of	
	air, the Unloader Valve	
	is defective.	
Defective Heatless	Verify consistent	Replace Solenoid
Dryer Solenoid Valve	Heatless Dryer cycling	Valves included in the
	(section 9.6)	8,000 Hour Maintenance
	If either side is	Kit (section 11.4)
	continuously flowing	
	high amounts of air, the	
	Solenoid Valve is	
	defective.	
Defective control board	Measure voltages at	If measurements are
	control board	incorrect, replace
	(section 9.3)	control board (section
		11.1)

13.18 Can't Create a High Duty Cycle Alarm

Possible Cause	Check	Corrective Action
High Duty Cycle Alarm	Verify High Duty Cycle	Allow the compressor to
set point too high	Alarm set point (section	run longer than it is off.
	8.7.5)	(section 9.11)
Defective Control Board	Verify that the	Replace Control Board
	compressor has run	(section 11.1) if the
	more than the verified	compressor runs more
	High Duty Cycle Alarm	than the verified High
	set point (above)	Duty Cycle Alarm set
		point and fails to create
		an alarm.

13.19 Compressor Rapid ON/OFF Cycling

Possible Cause	Check	Corrective Action
Defective control board	Measure voltages at	If measurements are
	control board	incorrect, replace
	(section 9.3)	control board (section
		11.1)

13.20 Contacting PUREGAS Technical Support

Please read the *Before You Call PUREGAS* section (13.1)

Once you have exhausted all of the potential problems and solutions covered in the *Troubleshooting Your Dryer* section, and you still require further assistance to correct a problem, contact PUREGAS Technical Support:

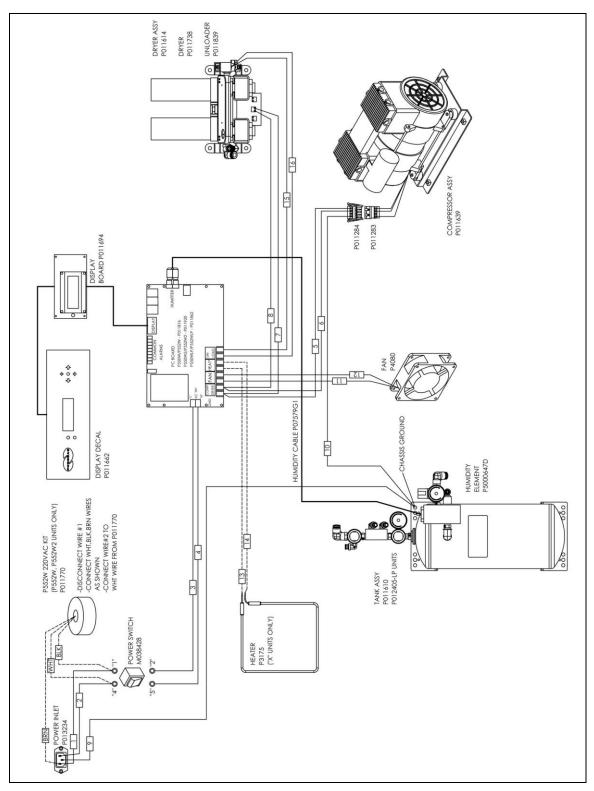
(800) 521-5351 (**option 1**)

Have the following information available:

Trouble Ticket # (if follow	wing-up on a pre	evious call):	
Technician Name:		Phone #:	
Model #:		Serial #:	
Company Name:		Location Name:	
City:	State:		

14. Appendix

14.1 Wiring Diagram



14.2 Set Point Limits and Defaults

14.2.1 System Adjustments

Description	Minimum Value	Maximum Value	Default Value	Unit of Measurement
System Pressure			345	KPa
Static Pressure			117	KPa
Outlet Pressure (LP UNITS)	13.8 (2.07)	103.4 (51.71)		KPa
Alarm Delay	OFF	ON	ON	
Startup Delay	0	10	0	Seconds

14.2.2 Alarm Set Points

Description	Minimum Value	Maximum Value	Default Value	Unit of Measurement	Shutdown
High Flow Alarm	0	25	14	SCMD	
High Outlet Pressure Alarm (LP UNITS)	3.6 (2.14)	137.9 (51.71)	69 (51.71)	KPa	
Low Outlet Pressure Alarm (LP UNITS)	3.5 (2.07)	137.8 (51.64)	14 (2.07)	KPa	
High Humidity Alarm	3	15	10	%	YES
High Duty Cycle Alarm	0	99	70	%	
High Cabinet Temperature Alarm			48.9	Deg C	YES
Compressor Total Run Time Alarm			8000	Hours	

14.2.3 System Operations

Description	ON Value	OFF Value	Default Value	Unit of Measurement
Compressor	137.9	344.7		KPa
Fan	32.2	26.7		Deg C

14.3 SNMP Parameters

Device Configuration Information	
Device ID	Alphanumeric (Defined by Customer)
Device Model	Alphanumeric (Factory Preset)
Device Firmware Version	Numeric (Factory Preset)
Current Date/Time	Numeric (mm/dd/yy hh:mm)
IP Address	Numeric (xxx.xxx.xxx)
Subnet Mask	Numeric (xxx.xxx.xxx.xxx)
Gateway Address	Numeric (xxx.xxx.xxx)
SNMP Trap Server Address	Numeric (xxx.xxx.xxx)
SNMP Read Community String	Alphanumeric (6-14 digits, Default =
(also sets SNMP Trap Community String)	"public")
SNMP Write Community	Alphanumeric (6-14 digits, Default = "123456"
Status Readings (Read-Only)	
Outlet Pressure Reading	Numeric (KPa)
Tank Pressure Reading	Numeric (KPa)
Humidity Reading	Numeric (%)
Flow Reading	Numeric (SCMD)
Cabinet Temperature Reading	Numeric (DEG C)
Compressor Total Run Time Reading	Numeric (Hours)
Duty Cycle Reading	Numeric (%)
System Status	ON / SHUTDOWN
Compressor Status	ON / OFF
Fan Status	ON / OFF
Heater Status (Outdoor Unit Only)	ON / OFF
Alarm Readings (Read-Only)	
High Flow Alarm	OK / Alarm
High Outlet Pressure Alarm	OK / Alarm
Low Outlet Pressure Alarm	OK / Alarm
High Humidity Alarm	OK / Alarm
High Cabinet Temperature Alarm	OK / Alarm
High Duty Cycle Alarm	OK / Alarm
Maintenance Required Alarm	OK / Alarm
Total Alarm	OK / Alarm
Configuration Settings (Read-Write)	
High Flow Alarm Threshold	Numeric (SCMD)
High Outlet Pressure Alarm Threshold	Numeric (KPa)
Low Outlet Pressure Alarm Threshold	Numeric (KPa)
High Humidity Alarm Threshold	Numeric (%)
High Duty Cycle Alarm Threshold	Numeric (%)
Reset Compressor Total Run Time Reading	Numeric (Hours)
Start Up Delay Time	Numeric (Seconds)
Alarm Reset	RESET
Alarm Delay	ON / OFF
Alarm Traps Sent to SNMP Server	
High Flow	
High Outlet Pressure	
Low Outlet Pressure	
High Humidity	
High Cabinet Temperature	
High Duty Cycle	
Maintenance Required	
Maintenance Required	

15. Limited Warranty Agreement

PUREGAS products carry a one (1) year warranty against defective workmanship and material. This period starts at date of shipment. Not included are the components subject to normal replacement during a year's operating time.

No claims for labor in replacing defective parts or for consequential damages will be allowed. Replacement parts will be invoiced in the regular way, with invoices subject to adjustment after the parts claimed defective are examined at our factory. In addition, no material or parts will be accepted at our factory for in-warranty repairs or credit without previous authorization from PUREGAS.

Responsibility for damages incurred in transit will be borne by the user and the user in turn should file any damage claim against the carrier. All warranty items are F.O.B. Broomfield, Colorado. Freight charges are the responsibility of the user.

This warranty shall not apply to any PUREGAS product which shall have been repaired or altered in any way by anyone other than PUREGAS or authorized personnel so as to affect, in our judgment, its proper functioning or reliability, neither will it apply to any product which has been subject to misuse, negligence, or accident. The installation of unauthorized non PUREGAS parts will void the warranty on those PUREGAS products.

Registration Reminder

If you haven't already done so, please take a moment to register your PUREGAS P550W2 Series Air Dryer. **Registering is necessary to activate this Limited Warranty on your product.** Once you register, you are eligible to receive free technical support, as well as updates concerning your PUREGAS products.

See Section 7. for details on Registering Your Dryer.

16. Contacting PUREGAS

16.1 General

PUREGAS, LLC

226A Commerce Street

Broomfield, Colorado 80020

(800) 521-5351

(303) 427-3700

Fax – (303) 657-2233

info@puregas.com

www.puregas.com

16.2 Sales

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

Fax – (303) 657-2205

sales@puregas.com

parts@puregas.com

16.3 Service

(800) 521-5351 (**option 3**)

Fax - (303) 657-2205

16.4 Technical Support

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

DON'T FORGET TO REGISTER YOUR DRYER!

See Section 7. for details on Registering Your Dryer.

17. Notes	
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