

P210WLP Series Air Dryer



User's Guide

Models covered:

P210WLP P210WLP-V P212WLP P212WLV-V

100513941 - Rev. W

WARNING:



This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer/birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

1. Welcome & Congratulations

Congratulations on your purchase of a new PUREGAS P210WLP Series Air Dryer! We here at Altec AIR 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 Altec AIR 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 Altec AIR products, please visit us on the web at:

www.AltecAIR.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 P210WLP Series Air Dryers. Models covered include P210WLP, P210WLP-V, and P212WLP. 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 A symbol as well as a label of "<u>WARNING!</u>", "<u>CAUTION!</u>", or "<u>IMPORTANT!</u>". 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.



WARNING!

High Noise. PUREGAS air-dryers are meant to be installed in an unattended area.



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
- 110 125 VAC, 50/60 Hz for P210WLP models
- 208 253 VAC, 50/60 Hz, 1 Phase for P212WLP 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 Altec AIR is **NOT RECOMMENDED AND MAY VOID THE WARRANTY.**



CAUTION!

This Air-dryer does not contain an internal Surge Protection Device (SPD). An SPD is required and must be supplied by the user.



CAUTION!

Observe precautions for handling Electrostatic Sensitive Devices.



IMPORTANT!

Installation of ALTEC AIR air-dryers are intended for network telecommunication facilities (non-customer premises) only.

5. Overview & Specifications

5.1 Product Description

The P210WLP Series Air Dryers from Altec AIR 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 P210WLP 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.

5.2 Key Features

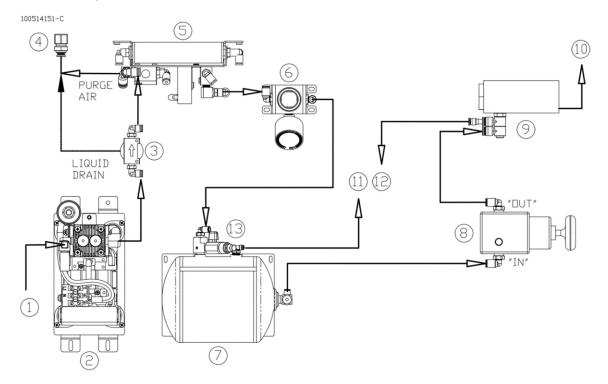
- LCD display of all operating parameters
- Solid state microprocessor-based circuitry eliminates costly maintenance
- Accurate humidity sensing within $\pm 0.1\%$ RH
- Oil-less compressor

5.3 P210WLP Series Air Dryer Models

Model	Description
P210WLP	110 - 125 VAC, 0.3 – 7.5 PSI (2.1 – 51.7 KPA) Outlet Pressure
P210WLP-V	110 - 123 VAC, $0.5 - 7.5$ PSI (2.1 - 51.7 KPA) Outlet Plessure
P212WLP	208 - 253 VAC, 0.3 – 7.5 PSI (2.1 – 51.7 KPA) Outlet Pressure
P212WLP-V	200 - 255 VAC, $0.5 - 7.5$ FSI (2.1 - 51.7 KPA) Outlet Plessure

5.4 Technical Specifications

	P210WLP-V	P210WLP	P212WLP	P212WLP-V		
Output Capacity	Up to 200 SCFD (5.7 SCMD) @ 100% Duty Cycle					
Power Requirements	110 – 125 VAC 60 HZ		208 – 253 VAC 50 – 60 HZ			
Outlet Pressure Range		0.3 – 7.5 PSI (2.1 – 51.7 KPa)				
Outlet Air Humidity		Less than 2% RH Less than -40 °F/°C Atmospheric Dew Point				
Compressor Type	Oil-less Piston Type					
Drying Method	Heatless Desiccant					
Optimal Operating Temperature Range	40° – 85° F (5° - 30° C) Ambient *Unit will go into SHUTDOWN mode if Cabinet Temperature exceeds 120° F (49° C)					
Alarms	Standard Alarms - Complete readings of all critical measurement points, individual alarm indication display, including SNMP Communication					
Outlet Connections	3/8" Press-to-lock Fitting					
Dimensions	6.75" D x 16.13" W x 19.39" H		13" W x 6.75" H 7 cm W x 17.15 cm H)	6.75" D x 16.13" W x 19.39" H		
Net Weight	42 lbs (19 kgs)					



5.5 Dryer Function Overview

#	Component	Description
1	Inlet Muffler	Minimizes compressor intake noise
2	Compressor	Compresses air drawn in by the inlet muffler
3	Coalescing Filter	Removes liquid water droplets from the airstream prior to the heatless dryer
4	Purge Outlet	Outputs heatless dryer purge air and the liquid water from the coalescing filter
5	Heatless Dryer	Removes moisture from the compressed air.
6	Capacity Control Valve	Regulates system pressure and prevents air from bleeding back through the heatless dryer.
7	Air Tank	Stores compressed dry air.
8	Outlet Pressure Regulator	Regulates the outlet pressure to the desired outlet condition.
9	Humidity Sensor	Measures the humidity of the compressed air.
10	System Outlet	Outputs the tank air at the pressure set by the outlet pressure regulator
11	Tank Pressure Transducer	Interprets tank pressure for display
12	Outlet Pressure Transducer	Interprets outlet pressure for display
13	Adjustable Bleed Orifice	Allows user to adjust duty cycle for optimal performance based on site configuration.

6. Installing Your Dryer

6.1 Safety & Warning Information



WARNING!

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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.



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CAUTION!

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CAUTION!

This Air-dryer does not contain an internal Surge Protection Device (SPD). An SPD is required and must be supplied by the user.



CAUTION!

Incoming power to Dryer must be:

- 15 amp service recommended
- 110 125 VAC, 50/60 Hz for P210WLP models
- 208 253 VAC, 50/60 Hz, 1 Phase for P212WLP models



IMPORTANT!

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



IMPORTANT!

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

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 40° and 85° F (5° and 30° C) for optimal performanceNOTE: Higher temperatures will decrease component lifespan.

6.2.3.3 Meets the following power requirements:

- 110 125 VAC for P210WLP models
- 208 253 VAC, 1 Phase for P212WLP models
- All models require 50/60 Hz and minimum 15 amp service
- **6.2.4** Notify the alarm center of the installation and potential for alarms during the process (as necessary).

6.3 Included Contents

- (1) P210WLP Series Air Dryer
- (1) 120 VAC Power Cord (P210WLP models)
- (1) 220 VAC Power Cord (P212WLP models)

- (4) Connector, Male 1/4 MPT Swivel Elbow
- (1) Rack Mounting U-shaped Bracket (P210WLP-V Excluded)
- (2) Rack Mounting Ear Brackets (P210WLP-V Excluded)
- (1) Drawer Slide Pair (P210WLP-V Excluded)
- (2) Vertical Wall Mount Bracket (P210WLP-V Only)
- (1) User's Guide (not shown)
- (1) Installation Hardware Kit
- (1) 36" Purge Drain Tube

6.4 Required Tools and Materials

- Medium adjustable wrench
- Phillips Head Screwdriver
- Box Cutter

- Loctite 222MS
- 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 top panel.

NOTE: The top panel is equipped with locking latches if a higher level of security is required

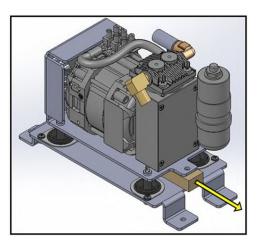


6.5.3 Check for loose parts, hoses, or wiring.

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 wooden shipping block from the compressor assembly by removing the single #8-32 x ¾" Philips head screw and pulling the block free.

NOTE: Do not discard shipping block. Shipping block must be re-inserted in the case of a future event



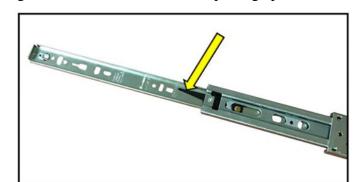
requiring movement of the dryer (See section 6.7)

6.5.5 Remove the plastic plug from the purge port



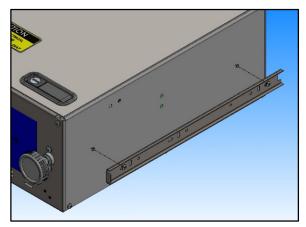
- **6.5.6** Remove the plug from the outlet port. And connect your outlet tubing.
- **6.5.7** For **RACK MOUNT** installations (*See sections* 6.5.8 & 6.5.9 for wall mount installations):



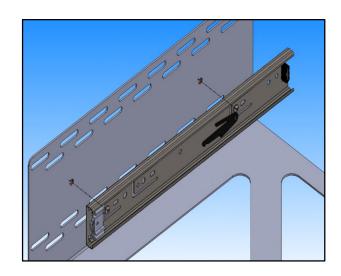


6.5.7.1 Extend the drawer slide brackets and separate into two components by pressing down on the black lever and pulling apart.

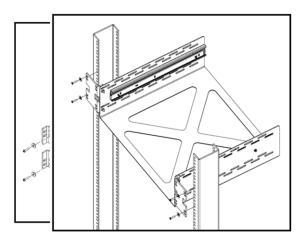
6.5.7.2 Install the smaller of the two slide components on the side panels of the unit by inserting two of the supplied 8-32 x 5/16" screws into the pre-threaded holes on each side of the unit. Use loctite to secure the screws.



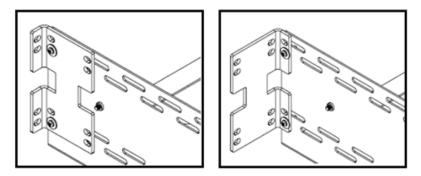
6.5.7.3 Install the larger of the two slide components on the inside walls of the provided U-shaped mounting bracket by inserting two of the supplied 10-32 x 3/8" screws on each side. Use Loctite to secure the screws.



6.5.7.4 Install one of the "mounting ear" brackets on each side of the Ushaped mounting bracket using two 10-32 x 5/8" screws, two washers, and two 10-32 Nylock nuts.



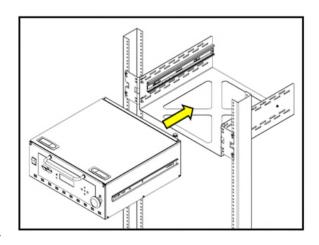
NOTE: The mounting ears are reversible to accommodate both 19" and 23" racks. The mounting ears can be installed in various positions along the depth of the U-shaped bracket to accommodate various rack configurations.



6.5.7.5 Install the U-shaped bracket assembly into the server rack by bolting the two mounting ear brackets to the rails of the rack. Refer to the manufacturer of the server rack to determine the hardware necessary for component installation.

NOTE: If the server rack has additional mounting rails, an additional set of mounting ears can be used to decrease unit sway (*see section 11.3 for ordering information*).

6.5.7.6 From a supported position, lift and slide the unit into the U-shaped bracket assembly that is installed in the server rack. Take care to align the drawer slide components so that they

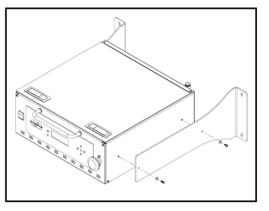


engage correctly with each other. Firmly push the unit until it is fully installed, and the drawer slides will lock to prevent accidental separation.

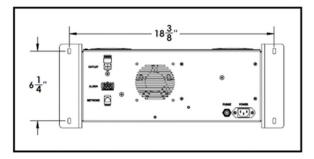
NOTE: The unit can be quickly removed from the U-shaped bracket assembly without removal of mounting hardware by fully extending the unit, pressing down on the black release levers on the drawer slides (*See section 6.5.7.1 for detail*), and gently pulling the unit free.

- **6.5.8** For **HORIZONTAL WALL MOUNT** installation (*See section 6.5.7 for rack mount installation & section 6.5.9 for vertical wall mount installation*)
 - **6.5.8.1** Each P210WLP Series dryer, excluding P210WLP-V dryers, is shipped with a standard rack mount installation kit. *Section 10.3* outlines the general installation process for wall mounting a P210WLP Series dryer. The installation components required for wall mounting are NOT INCLUDED with the standard dryer (*see section 11.3 for ordering information*).

6.5.8.2 Install a wall mount bracket on each side panel of the unit using two 8-32 x 3/8" screws and two washers. Use Loctite to secure the screws.



6.5.8.3 Refer to the following hole pattern to locate fasteners on the wall:



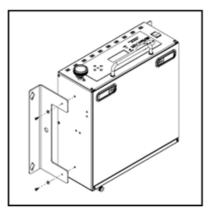
6.5.8.4 Refer to the fastener manufacturer for installation instructions of wall anchors. The minimum necessary fastener tensile/pullout strength is 2,000 pounds per anchor.

6.5.9 For **VERTICAL WALL MOUNT** installations – P210WLP-V units only (See section 6.5.7 for rack mount installations & section 6.5.8 for horizontal wall mount installations):

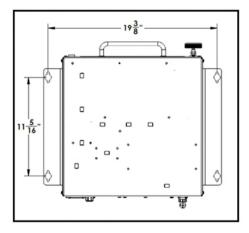
NOTE: This section is only applicable for P210WLP-V model units. All other P210WLP series dryers **MUST** be mounted in a horizontal orientation.

6.5.9.1 Each P210WLP-V dryer is shipped with a standard vertical wall mount installation kit. *Section 6.5.9* outlines the general installation process for wall mounting a P210WLP-V dryer.

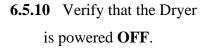
6.5.9.2 Install a wall mount bracket on each side panel of the unit using two 8-32 x 3/8" screws and two washers. Use Loctite to secure the screws.



6.5.9.3 Refer to the following hole pattern to locate fasteners on the wall:



- **6.5.9.4** Refer to the fastener manufacturer for installation instructions of wall anchors. The minimum necessary fastener tensile/pullout strength is 2,000 pounds per anchor.
- **6.5.9.5** Ensure that the unit is mounted with the display facing upwards





- **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 the P210WLP model



- 208 253 VAC, 1 phase, power outlet for the P212WLP models
 - o 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.



6.5.14 Set the System Pressure:

With Compressor running: Pull the Capacity Control Valve knob out.

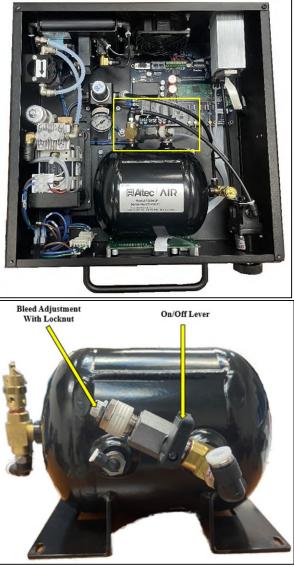
- **6.5.14.1** Turn the knob until the reading on the pressure gauge is **50 PSI**.
- **6.5.14.2** Push the knob in to lock.



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



- 6.5.16 NOTE: Press the RESET button if the Dryer goes into SHUTDOWN mode. If after multiple resets the dryer alarms are still present please proceed to the next steps.
- **6.5.17** Open the top cover and locate the adjustable bleed orifice on the back side of the tank assembly. By default it is set to 10% duty cycle and enabled from the factory but in some instances it may be necessary to adjust it higher or lower depending on your application.
- **6.5.18** The adjustable bleed orifice has two points of adjustment. The on/off lever which enables (inline position) or disables (perpendicular position) its operation and the bleed adjustment with locknut which allows you to precisely adjust the amount of air being bled out of the tank.
- **6.5.19** If you're experiencing duty cycles greater than 35% we suggest lowering the amount of bleed by turning the



adjustment clockwise to lower it. In some instances, it's possible that there is enough of an external leak outside the dryer where the bleed isn't needed at all and just needs to be disabled by engaging the "Off" position on the lever.

- **6.5.20** One thing to note is every application/site conditions will vary therefore a specific setting isn't referenced. Rather you must fine tune the dryer for your conditions. The ideal setup is to get the duty cycle as low as you can achieve while maintaining 0.0% humidity reading on the dryer at all times.
- **6.5.21** Once adjustments have been made allow for the dryer to run for 15 mins and monitor any trends in humidity. If the dryer is showing the humidity creeping upwards as time goes on, than increase the duty cycle time by adding more bleeding (turning counter clockwise ¹/₄ turn per adjustment period). If the humidity is stable and dropping down towards 0.0% you can elect to leave the adjustment where it is by tightening the locknut using a 14mm socket/wrench.

6.5.22 Set the Outlet Pressure:

- 6.5.22.1 Loosen the retaining nut and turn knob until Outlet Pressure (OUTLET) reading is at the desired setting.
- **6.5.22.2** Tighten the retaining nut to lock the knob in place.



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. If utilizing the Adjustable Bleed Orifice than leaking from that component is expected and is considered normal.

With Compressor running:

6.5.23.2 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*
- **6.5.24** Re-install the top panel and fasten the latches.

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 dust or chemicals
 - Ambient temperature is between 40° 85° F (5° 30° C) for optimal performance
- □ System Pressure is set to 50 PSI.

- \Box No air leaks are present in the system.
- □ No alarms are present on the Display Panel.

6.7 Moving Your Dryer

- **6.7.1** If relocating your dryer to another site of operation or packaging to ship for service, perform the following steps prior to movement to ensure your dryer continues to operate optimally.
 - 6.7.1.1 Return the shipping block to the compressor assembly by re-inserting the block between the compressor brackets and re-inserting the #8-32 x ³/₄" screw (*See section 6.5.4 for reference*).
 - **6.7.1.2** Remove any visible liquid water in the coalescing filter by unscrewing the filter bowl and dumping the water. This process may be made easier by removing the unit side panel.

NOTE: Take care not to pinch the O-ring seal while returning the filter bowl to the filter housing assembly

7. Registering Your Dryer

Please take a moment to register your PUREGAS P210WLP Series Air Dryer. Registering is necessary to activate the Limited Warranty on your product. Once you register, you are eligible to receive free technical support, as well as updates concerning your Altec AIR products.

Register Online at	http://www.AltecAIR.com/registration.html
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.



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8.2 Connecting Air Supply Lines to the Dryer

- **8.2.1** Connect a 3/8" air supply line to the Outlet Port.
- **8.2.2** Power the Dryer **ON**.

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

8.3 Depressurizing the Dryer

- **8.3.1** To prevent pressure from building back up, power the dryer **OFF** (*See section 8.4 for detail*).
- 8.3.2 Open Top Panel
- **8.3.3** Pull the ring handle on the air tank until all the air pressure is released.
- 8.3.4 Close Top Panel







8.4 Powering the Dryer ON & OFF



CAUTION!

Incoming power to Dryer must be:

- 15 amp service recommended
- 110 125 VAC, 50/60 Hz for P210WLP models
- 208 253 VAC, 50/60 Hz, 1 Phase for P212WLP models

8.4.1 POWER Switch - Controls the main power to the Dryer.



8.5 Using the Front Panel Display



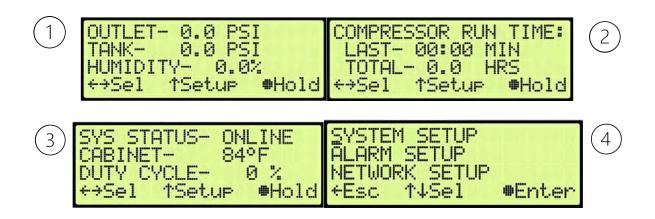
CAUTION!

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



Front Panel	
Menu Item	Description
ALARM LED	Indicates an alarm is present
RESET Button	Clears an alarm and allows the system to continue operating
HOLD Button	Freezes the current information screen on the display. When pressed again, it will allow the information screens to begin cycling again
Arrow Buttons	Used to access, navigate, and change values in the Set Point Adjust screens
Display Screen	Shows the current Dryer readings. Will cycle between the following information screens (unless the HOLD button has been pressed)

8.5.1 The P210 series dryer has 3 main display screens (shown below) that cycle every few seconds. These provide real time data of the operating conditions of the dryer. Any triggered alarms will be displayed to the right of the corresponding status category if present. The 4th screen shown below is the setup menu which gives access to setup features.



8.5.2 Screen Parameters

System Setup			
Menu Item	Description	Range	Menu Shortcut
Alarm Delay	If enabled, there will be a 2- minute delay between when an alarm is staged and when it is latched	On/Off	个••
Startup Delay	A delay in seconds between when the device starts up and the compressor is enabled. Useful when multiple units are in service and starting all compressors at once would cause voltage drop on mains power	0-10s	↑• ↑•
Reset Compressor Runtime Hours	Reset's compressor runtime. Should be done after compressor maintenance performed	RESET	ተ• ተ•

Factory Reset	Resets all parameters to factor defaults	RESET	ተ• ተተተ•
Set Date	Sets the system date		ተ• ተተተ•
Set Time	Sets the system time		↑• ↑↑↑↑↑
Set Units	Sets the unit of measure for the dryer Imperial/Metric		↑•↓↓↓↓ •
Set Device Type	Sets the device type that the control board is installed in. This should generally not be changed	P210, P550,P1500W,P1500WLP,P1500WHP, P550WLP, P4200W, P8400W	↓ •↑↑↑
Reset Device TypeResets the device type. At next boot the system will ask device type. This should generally not be used		RESET	↓ •↑↑•
Backlight Dim enable If enabled, the LCD backlight will be dimmed after a short period of not interacting with the device		ON/OFF	↑• ↓•
Firmware Version / Update	Shows the current Firmware version of the dryer and can update Firmware via USB device on control board	N/A	↓ •↑↑↑↑↑↓

Alarm Setup					
Menu Item	Description	Range	Default Setting	Menu Shortcut	Shutdown?
High Outlet Alarm Threshold	The threshold for which if the outlet pressure rises above, an alarm will be triggered	0.30-7.50 PSI (2.1-51.7 KPA)	7.50 PSI (51.7 KPA)	↑↓••	No
Low Outlet Alarm Threshold	The threshold for which if the outlet pressure falls below, an alarm will be triggered	0.30-7.50 PSI (2.1-51.7 KPA)	0.30 PSI (2.1 KPA)	个↓∙个∙	No
High Humidity Threshold	The threshold for which if the humidity rises above, an alarm will be triggered	3-15%	10%	个↓∙个个∙	Yes
High Duty Cycle Threshold	The threshold for which if the duty cycle rises above, an alarm will be triggered	0-99%	70%	↑↓•↓↓ •	No
Last Runtime Alarm Threshold	The threshold for which if the last runtime rises	2:00-10:00 Mins	5:00 Mins	↑↓∙↓•	No

	above, an alarm will be triggered				
High Cabinet Temperature Alarm	Monitors enclosure temperature and will shutdown dryer if it gets to hot	N/A	120°F (49°C)	N/A	Yes
Compressor Total Run Time Alarm	Tracks compressor run time as a service/maintenance reminder	N/A	2,000 Hrs	See System Setup	No

Network Setup				
Menu Item	Description	Range	Default	Menu Shortcut
IP Address	The System's IP address	N/A	192.168.1.102	↑↓↓•(Keyword)••
Subnet Mask	The system's subnet mask	N/A	255.255.255.0	↑↓↓●(Keyword)●个●
Gateway Address	The system's gateway address	N/A	192.168.1.1	个↓↓●(Keyword)●个个●
SNMP Trap Server 1	The address that SNMP traps will be sent to	N/A	000.000.000.000	个↓↓●(Keyword)●个个个●
SNMP Trap Server 2	Another, optional address that SNMP traps will be sent to	N/A	000.000.000.000	个↓↓●(Keyword)●个个个个●
SNMP Trap Server 3	Another, optional address that SNMP traps will be sent to	N/A	000.000.000.000	个↓↓●(Keyword)●个个个个个●
SNMP Trap Server 4	Another, optional address that SNMP traps will be sent to	N/A	000.000.000.000	↑↓↓•(Keyword)•↓↓↓↓↓•
Change Keyword	A menu that allows the user to change the keyword for the device	N/A	123456	个↓↓●(Keyword)●↓↓↓↓●
System Address	The System address used for communication with a PVD818 device	0-15	0	个↓↓●(Keyword)●↓↓↓●
MAC Address	A display for the MAC address of the device	N/A	Assigned By Device	个↓↓●(Keyword)●↓↓●
DHCP Enable	A setting that, if enabled, allows a router to assign the device an IP address	ON/OFF	OFF	↑↓↓●(Keyword)●↓●

8.6 Open Panel

8.6.1 Open panel latches and remove the top panel.



8.7 Setting the System Pressure

With Compressor running:

- **8.7.1** Open Panel (see section 8.6).
- **8.7.2** Pull the Capacity Control Valve knob out.
- **8.7.3** Turn the knob until the reading on the Pressure Gauge is **50 PSI**.
- **8.7.4** Push the knob in to lock.
- 8.7.5 Close Panel.

8.8 Setting the Outlet Pressure

8.8.1 Locate the outlet pressure regulator on the front of the unit



- 8.8.2 Turn knob until OutletPressure (OUTLET) reading is at the desired setting.
- **8.8.3** Tighten the retaining nut to lock value in place.



8.9 Connecting to Common Alarm Terminals

8.9.1 Wire the Alarm Harness to monitoring device using the table below for reference:

	Wire #	Wire Color	Function
Power Fail	13	RED	SHORT
Alarm	16	BLACK	on Alarm
Common	14	BLACK	SHORT
Alarm	17	BLUE	on Alarm
Common	15	BLUE	OPEN
Alarm	18	BLACK	on Alarm

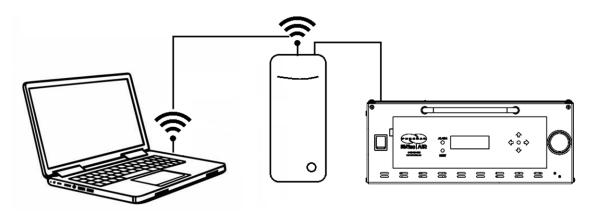
8.9.2 Connect the Alarm Harness to the Alarm Port on the back of the Dehydrator.



8.10 Connecting via Web Browser

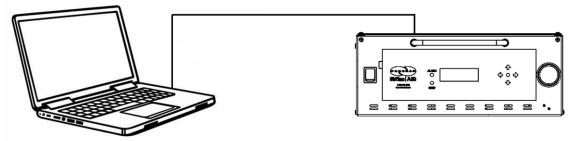
For Remote Air Dryer Monitoring Via An IP Network:

- The Air Dryer and Laptop/PC must be configured with a valid IP Address, and share the same Subnet Mask, and Gateway Address for the network.
- Use Google Chrome Web Browser.



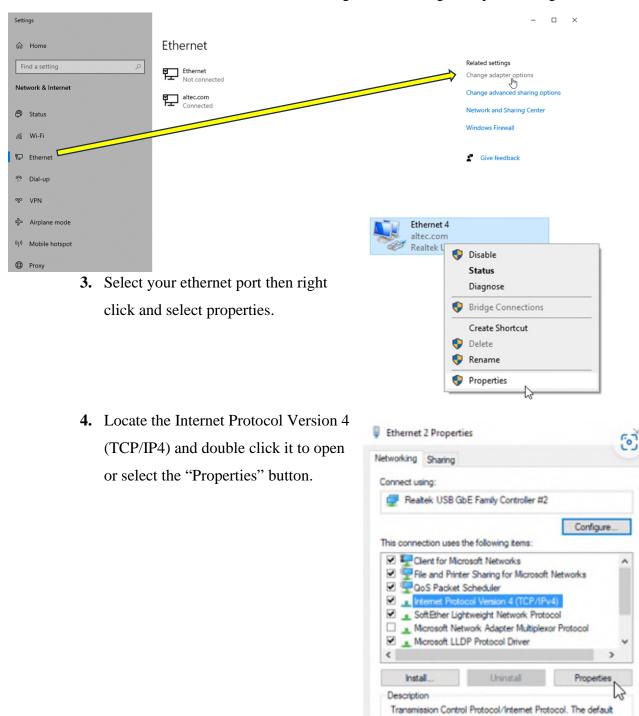
To Direct Connect A Laptop To The Dryer:

• Connect ethernet cord from laptop to dryer and verify LED's on the back of the Control Board are blinking.



- Configure laptops ethernet port by following the steps below.
- 1. In windows search bar type "Network Status" and open the application.

On the left hand side under the Network & Internet section click
 "Ethernet", than under Related Settings click "Change Adapter Settings".



OK

Cancel

wide area network protocol that provides communication

across diverse interconnected networks.

- Next check the button labeled "Use the following IP address:". Then enter the following criteria.
 - IP Address:192.168.1.100
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.1.1

*Note for dryers with different IP addresses, the entries will need to match the network settings that the dryer is on. Alternatively, you can set the dryer's IP address to 192.168.1.102, Gateway to 192.168.1.1, and Subnet Mask to 255.255.255.0 for the settings referenced above to work.

at an Arran Version Arra	D/ID: A) Decention
net Protocol Version 4 (TCI	P/IPv4) Properties
eral	
	ed automatically if your network supports need to ask your network administrator
) Obtain an IP address auto	omatically
Use the following IP addre	255:
IP address:	192 . 168 . 1 . 100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
Obtain DNS server addres	
Preferred DNS server:	
	• • •
Alternate DNS server:	+ + +
Validate settings upon ex	dvanced
	OK Cano

- 6. Click "Ok" when complete on all open windows to save the settings. Note if closed without hitting "OK" the changes won't take effect.
- 7. Next using your Google Chrome browser type the IP address of your dryer into the URL field and hit "Enter" to access the web interface screen.

•	😧 New Tab 🗙 🗙	+	-	×
\leftarrow	→ C S 192.168.1.102		D	:

8.11 Using the Web Interface

The Web Interface is designed to be user friendly with a point and click type of navigation. It has 4 different display screens that showcase the dryer status, setup parameters, event logs, and hardware health. To make changes to the configurable parameters (orange sections) simply unlock the system by clicking on the lock icon on the top right of the screen and enter in the dryer's **keyword** (default: 123456). Once completed simply click the sections you wish to change and make the update.

Status Setup Events						
ystem Status				System Info		
Dryer System				Device		
State	ONLINE			Date	08/05/2024	
Tank Pressure	0.1	PSI		Time	20:41	
Outlet Pressure	0.1	PSI	Ŷ	Device Model	P210WLP	
Humidity	0		~	Serial Number	123456789	ົາແຫຼ
Clear Alarms	Clear Alarms			Device ID	Air-Dryer	_[:::::]
				Hardware ID	P017788	
				Firmware Version	2.0.0 📝	
Compressor				OS Version	Raspbian	
Status	ONLINE					
Unloader	Closed					
Current Runtime	02:35	seconds	- (Network		
Last Runtime	00:00	seconds	-	IP	192.168.1.102	
Duty	0.0	8		Subnet Mask	255.255.255.0	
Total Runtime	1.0	hours		Gateway	192.168.1.1	
				DHCP	-	
				MAC	B8:27:EB:2E:66:BD	

Status Setup Events System Health						
tup						
System Settings Description Compressor Startup Delay		Min 0.0	Мах 10.0	Value 0.0	Unit SeC	
Startup Alarm Mask Length		120.0	3600.0	0.0	sec	
Monitoring Address		0	15	0		
Alarm Delay Enable				-		
Backlight Dim Enabled				-		
Metric Units				•		
Alarm Thresholds						
Description	Default 7.5	Min 0.3	Мах 7.5	Value 7.5	Unit PSI	
High Outlet Pressure	0.3	0.3	7.5	0.3	PSI	
High Humidity	10.0	3.0	15.0	10.0	۲۵I %	
High Duty Cycle	70.0	0.0	99.0	70.0	%	
High Compressor Last Runtime	300.0	120.0	600.0	300.0	seconds	
		120.0	000.0		Jesonus	
Network						
IP		10.5	0.137.184			
Subnet Mask		255.2	55.255.224			
Gateway		10.5	0.137.161			
DHCP			-			
MAC		B8:27:	EB:9E:6E:EB			
SNMP						
SNMP Trap Address 1				0.0.0.0		
						_ جنگ
SNMP Trap Address 2				0.0.0.0		
SNMP Trap Address 2 SNMP Trap Address 3				0.0.0.0		

Setup Events System Health		
s Log		
Filter By Type		
ZAlarms ZParan	neter Change 🛛 🖾 Info	csv CSV
Alarm	Low Outlet Pressure Alarm	8/6/2024, 7:34:52 PM
Info	Alarms Reset	8/6/2024, 7:32:51 PM
Alarm	Low Outlet Pressure Alarm	8/6/2024, 7:28:41 PM
Info	Alarms Reset	8/6/2024, 7:26:40 PM
Parameter Change	Emulation Enabled	8/6/2024, 7:20:46 PM
Alarm	High Humidity SYS 01 Alarm	8/6/2024, 7:20:37 PM
Alarm	Low Outlet Pressure Alarm	8/6/2024, 7:20:37 PM
Info	Alarms Reset	8/6/2024, 7:19:03 PM
Info	Alarms Reset	8/6/2024, 7:18:36 PM
Parameter Change	Serial Number Changed from "000000000" to "123456789"	8/5/2024, 7:07:36 PM
Alarm	High Humidity SYS 01 Alarm	8/2/2024, 7:52:19 PM
Alarm	Low Outlet Pressure Alarm	8/2/2024, 7:52:19 PM
Info	Unit Power On (Firmware: 2.0.0 Library: 0.1.6)	8/2/2024, 7:50:16 PM
Info	Unit Power On (Firmware: 2.1.0 Library: 0.1.6)	8/2/2024, 7:47:55 PM
Alarm	High Humidity SYS 01 Alarm	8/2/2024, 7:45:19 PM

Status Setup Events Syste	m Health				-
Hardware Health				Software Health	
Sensor Status Tank Pressure Outlet Pressure Humidity Temperature	0.1 0.1 0 71.7	PSI PSI % F		Threads Compressor Controller RUNNING 95:54:16 Alarm Controller RUNNING 95:54:16 Interface Thread RUNNING 78:11:15 Heater Controller RUNNING 95:54:16 Fan Controller RUNNING 95:54:16 Web Thread RUNNING 95:54:05	
Cycle Kit Connected Last Tx Last Rx	No Connection		oo	Web Inread RUNNING 95:54:00 SNMP Thread RUNNING 95:554:40 Serial Thread RUNNING 95:50:27 Alarm Hardware Controller RUNNING 95:54:15	
Monitoring Connected Last Tx Last Rx	No Connection			Services Sensor Server active	ૺૢૢૢૢૢૢૢૢૢૢૢૢૢ

8.12 Updating Firmware

- 1. After downloading the correct firmware from <u>www.AltecAIR.com</u> simply click the write icon next to the current version of firmware than select "Choose File".
- 2. Pick the firmware file and click "OK" to begin the upload to the dryer.

Firmware Version	2.0.0	K
Updat Choose File	e Firmware No file chosen	

8.13 Connecting via SNMP

Using SNMP to connect and communicate with the P210WLP 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 P210WLP Series Air Dryers can be downloaded from our website <u>www.AltecAIR.com</u> 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.



WARNING!

High Noise. ALTEC AIR air-dryers are meant to be installed in an unattended area.



CAUTION!

Observe precautions for handling Electrostatic Sensitive Devices.

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

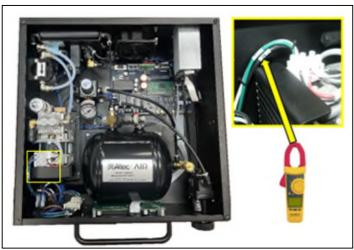
WARNING!

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 8.6).

- **9.2.2** Locate wire #19 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 **1.0 amp or below**.

9.2.4 Close Panel.

If the compressor measures over 1.0 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 8.6).

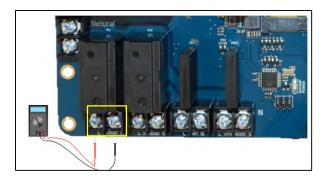
9.3.2 Locate the relay terminal block

"L Motor N" on the control board inside the air Dryer.



With the Compressor running:

9.3.3 Use a Voltmeter to measure across the board terminals where wires #6 and #7 are connected.
The voltage should measure 115
VAC (±10%) for P210WLP models and 230 VAC (±10%) for P212WLP models.



With the Compressor NOT running:

9.3.4 Use a Voltmeter to measure across the board terminals where wires #6 and #7 are connected. The voltage should measure 0 VAC (±10%).

9.3.5 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 11.4 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 8.6).
- **9.4.2** Locate the incoming power terminal block on the control board marked "AC IN"

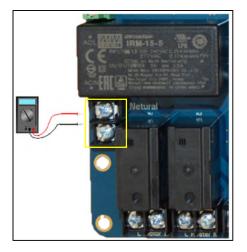


9.4.3 Use a Voltmeter to measure across the board terminals where wires #4 and #5 are connected.

The voltage should measure **110 - 125 VAC** for the P210WLP or **208 - 253 VAC** for the P212WLP.

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 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:

9.5.1 Locate the purge port on the rear of the unit



• Place your hand behind the purge port to feel for purging air. Air should be steadily purging from the port, and a burst of air should be felt every 60 seconds as the dryer cycles between towers.

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

9.6 Measuring Heatless Dryer Solenoid Voltage

With the Compressor running:

9.6.1 Locate the Heatless Dryer Cycle Timer.

The timer has two (2) sets of terminals (from top-tobottom): "VALVE" – controls solenoid "IN" – Incoming power

9.6.2 Use a Voltmeter to

measure the AC voltage across the set of **"VALVE**" terminals. The voltage reading should alternate between **110 - 125 VAC** for the P210WLP or **208 - 253 VAC** for the P212WLP and zero voltage approximately every 60 seconds as the timer cycles.





If the voltage does not measure approximately the same as the incoming system voltage the Cycle Timer could be defective. See sections 11.2 for troubleshooting information.

9.7 Testing Air Dryer Fan

NOTE: To test the fan, the cabinet temperature must be above 90° F (32° C).

- **9.7.1** Locate the fan exhaust on the rear of the unit.
- **9.7.2** Place your hand outside the Dryer to feel for air being blown outwards.



NOTE: Fan will turn OFF when the cabinet temperature is below 80° F (27° C).

If the fan is not blowing air outwards as described:

- Verify the cabinet temperature is above $90^{\circ}F(32^{\circ}C)$.
- *Check for loose wiring. Refer to the Wiring Diagram (section 0)*
- *Replace defective fan (see sections 11.1 for part detail and 11.4 for ordering information).*
- Replace defective control board if fan does not respond properly to temperature changes (see sections 11.1 for part detail and 11.4 for ordering information).

9.8 Testing Compressor ON/OFF Cycling

9.8.1 When the Unit Screen (0) displays TANK press the **HOLD Button** on the Front Panel to freeze that screen.



With Compressor running:

9.8.2 Verify the compressor shuts down when the tank pressure (TANK) reaches50 PSI (344.7 KPA).

If the tank pressure (**TANK**) fails to reach 50 PSI (344.7 KPA), see section 13.15 for troubleshooting information.

With Compressor NOT running:

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

- **9.8.3** Depressurize air Dryer (see section 8.3.3)
- 9.8.4 Verify the compressor turns on when the tank pressure (TANK) falls to 20 PSI (137.9 KPA).
- 9.8.5 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 11.4 for ordering information.

9.9 Testing High Compressor Last Run Time 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.

9.9.1 Start timing when the compressor turns on.

9.9.2 Depressurize air Dryer (See sections 11.1 for detail).

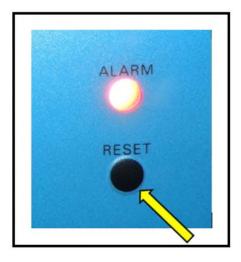
This prevents the compressor from shutting down.

When the compressor runs for 5:00 minutes (unless adjusted to a different Set Point by the user), a High Compressor Last Run Time (**LAST RUN**) alarm should appear on the System Screen.



9.9.3 Press the **RESET Button** to clear the alarm.

If you are unable to create a High Compressor Last Run Time alarm as described, see section 13.18 for troubleshooting information.



9.10 Testing Humidity Alarm and System Shutdown

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

9.10.1 Power the air Dryer **OFF**.

9.10.2 Depressurize air Dryer (see section 8.3.3)



- **9.10.3** Disconnect the humidity sensor from the control board lead
- **9.10.4** Unscrew and remove the Humidity Sensor from the Humidity Block.
- **9.10.5** With the sensor removed from the humidity block, re-connect the humidity sensor to the control board lead



9.10.6 Power the air Dryer ON.

Allow the Humidity reading to rise over 10.0%.



9.10.7 After one (1)

minute, verify that a Humidity Alarm appears, and the Dryer goes into **SHUTDOWN** mode.



9.10.8 Replace the Humidity Sensor into the Humidity Block.

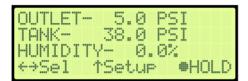
9.10.9 Press the **RESET Button** to clear the Humidity alarm.

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



9.11 Testing High Outlet Pressure Alarm

9.11.1 Make a note of the current Outlet Pressure (**OUTLET**) reading.



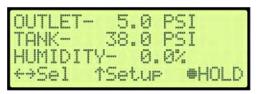
9.11.2 Loosen the retaining nut on the outlet pressure regulator.

9.11.3 Turn knob clockwise until Outlet Pressure (**OUTLET**) reading climbs over the high outlet pressure threshold (7.5 PSI, 51.7 KPA default). After one (1) minute, the High Pressure Alarm should appear on the display.





- 9.11.4 Turn Outlet Pressure Regulator knob counter-clockwise until Outlet Pressure (OUTLET) reading lowers to the reading recorded in step 9.11.1
- **9.11.5** Tighten the retaining nut to lock the setting in place







9.11.6 Press the **RESET Button** to clear the alarm.

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

9.12 Testing Low Outlet Pressure Alarm

9.12.1 Make a note of the current Outlet Pressure (**OUTLET**) reading.



9.12.2 Loosen the retaining nut on the Outlet Pressure Regulator.

9.12.3 Turn knob counter-

clockwise until Outlet Pressure (**OUTLET**) reading drops below the low outlet pressure threshold (0.3 PSI, 2.1 KPA default). After one (1) minute, the Low Pressure Alarm should appear on the display.





9.12.4 Turn Outlet Pressure Regulator knob clockwise until Outlet Pressure (**OUTLET**) reading rises to the reading recorded in step 9.12.1

9.12.5 Tighten the retaining nut to lock the setting in place.



5

†Setup

PSI

PSI

0.0%

0.

38.0

LALR

HOLD



9.12.6 Press the **RESET Button**.

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



9.13 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:

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

With Compressor running:

9.13.2 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 P210WLP Series Air Dryer continues to operate efficiently and reliably, Altec AIR recommends performing preventative maintenance procedures at the specified six month and annual intervals.

In the event of a high duty cycle application, it may be necessary to perform preventative maintenance at more frequent intervals, which will be indicated by a compressor total hour alarm. Refer to *Compressor Total Hour Alarm (section 10.3)*. Ensure that this alarm is reset after each annual maintenance interval to prevent accidental duplicate maintenance. Refer to *Reset Compressor Total Hours (section 10.3)*.

It is also recommended that you print out the included *Six Month Maintenance (section 10.2)* and *Annual 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.

10.1 Safety & Warning Information

MARNING!

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.**



WARNING!

High Noise. Altec AIR air-dryers are meant to be installed in an unattended area.



CAUTION!

Observe precautions for handling Electrostatic Sensitive Devices.



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 Altec AIR 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.

ADDRESS:

10.2 Six Month Maintenance

MODEL:

LOCATION NAME: _____

SERIAL NUMBER: _____

DATE INSTALLED: _____

Maintenance Interval (Months)

Procedure	Section	6	12	18	24	30
Measure & Record	9.2					
Compressor Amp Draw	9.2					
Measure & Record Incoming Voltage						
(must be 110 - 125 VAC for P210WLP models and	9.4					
must be 208 - 253 VAC for P212WLP models)						
Test High & Low Outlet Pressure Alarms	9.11 &					
	9.12					
Set System Pressure (50 PSI)	8.6					
Set Outlet Pressure	8.8					
Test Consistent Heatless Dryer Cycling	9.5					
Test Fan	9.7					
Test Compressor ON/OFF Cycling	9.8					
Test High Compressor Last Run Time Alarm	9.9					
Test Humidity Alarm & System Shutdown	9.10					
Test Air Fittings for Leaks	9.13					
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 Annual Maintenance

MODEL:_____

SERIAL NUMBER: _____ ADDRE

DATE INSTALLED: _____

LOCATION NAME:	

ADDRESS:_____

Maintenance Interval

Note: In the event of a high duty cycle application, it may be necessary to perform preventative maintenance at more frequent intervals, which will be indicated by a compressor total hour alarm. Refer to *Compressor Total Hour Alarm (section 8.6.6)*

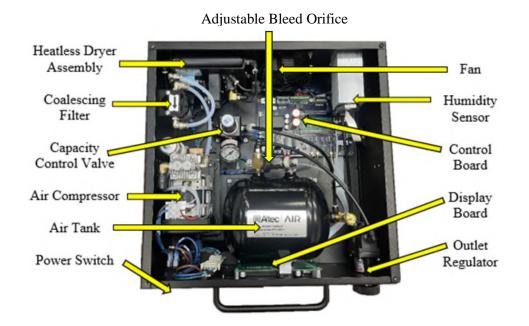
	infunitentinee inter vur				
Section	1 Year	2 Year	3 Year	4 Year	5 Year
11.3					
0.2					
).2					
8.6					
8.8					
9.5					
9.8					
9.13					
9.13					
Maintenance Performed by:					
Date of Maintenance:					
	11.3 9.2 8.6 8.8 9.5 9.8 9.13 9.13 9.13	11.3 □ 9.2 8.6 8.8 □ 9.5 □ 9.8 □ 9.13 □ 9.13 □ 6ormed by: □	11.3 □ 9.2 □ 8.6 □ 9.5 □ 9.8 □ 9.13 □ 0.13 □ 0.13 □ 0.13 □ 0.13 □ 0.13 □	11.3 □ □ □ 9.2 □ □ □ 8.6 □ □ □ 9.2 □ □ □ 9.2 □ □ □ 9.2 □ □ □ 9.2 □ □ □ 9.2 □ □ □ 9.5 □ □ □ 9.8 □ □ □ 9.13 □ □ □ 9.13 □ □ □ 0 □ □ □ 6ormed by: □ □ □	11.3 □ □ □ □ 9.2 □ □ □ □ 8.6 □ □ □ □ 9.5 □ □ □ □ 9.8 □ □ □ □ 9.13 □ □ □ □ 0.13 □ □ □ □ 0.13 □ □ □ □ 0.13 □ □ □ □ 0 □ □ □ □ 0 □ □ □ □

Note: After annual maintenance is performed ensure that the compressor total hour count is reset. Refer to *Reset Compressor Total Hours (section 8.7.4)*

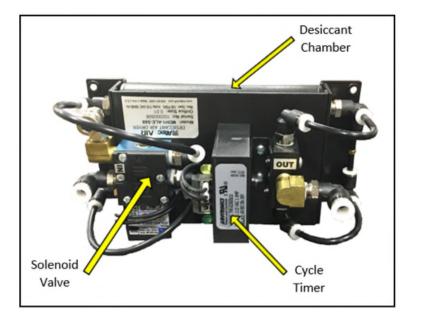
NOTE: COPY OR PRINT THIS PAGE AND KEEP IT WITH THE AIR DRYER

11. Replacement Parts & Accessories

11.1 Dryer Parts



Description	Part Number	Quantity	Recommend Spare
Adjustable Bleed Orifice	100522051	1	
On/Off Valve (Adjustable Bleed Orifice)	100508601	1	
Heatless Dryer Assembly	See section 11.2	for detail	✓ (1)
Coalescing Filter	100519630	1	
Fan	P013720	1	
Capacity Control Valve	P017421	1	✓ (1)
Humidity Sensor	P013401	1	
Air Compressor - 115V Units 230V Units	P017420 P017441	1	✓ (1)
Control Board	P013708	1	✓ (1)
Air Tank	P017411	1	
Display Board	P011694	1	
Power Switch	M038428	1	
Outlet Pressure Regulator	P017410	1	



11.2 Heatless Dryer Assembly Parts

Description		Part Number	Quantity	
Heatless Dryer -	Heatless Dryer -			
115V Units		MDH1-ALE-S68	1	
	230V Units	MDH1-DLE-S68	1	
Desiccant Chamber		51843	2	
Cycle Timer				
	115V Units	51800	1	
230V Units		50022	1	
Solenoid Valve				
115V Units		10043	1	
	230V Units	10043-220V	1	

11.3 Accessories for Your Dryer

Description	Part Number	Recommend Spare
Annual Maintenance Kit Includes replacement filter element and compressor maintenance kit.	P017612	✓ (1)
Horizontal Wall Mounting Kit Includes mounting brackets and hardware.	P017460	
Server Rack Mounting Ear Kit (Pair)	P017703	
Cycle Kit Allows multiple dryers to be cycled.	P08033W	
Cycle Kit Interface Kit	PVDW34	
Rack Latch Kit	100520428	

11.4 Ordering Parts from Altec AIR



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 Altec AIR Inside Sales / Parts Orders department to order:

(800) 521-5351 (**option 2**) Fax – (303) 657-2205 <u>sales@AltecAIR.com</u>

12. Service & Repair

Only Altec AIR 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, timer, springs, and complete solenoid assembly
- Test proper component operation
- Desiccant Tower Repack
 - 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 Service Department at **1-800-521-5351 (option 3)** to obtain a Return Authorization (RA) number.
- Carefully package the item(s) to be returned.
 - Reference *section 10.3* for steps to take prior to boxing dryer
- 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 Altec AIR

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 Altec AIR 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.



WARNING!

High Noise. Puregas air-dryers are meant to be installed in an unattended area.



CAUTION!

Observe precautions for handling Electrostatic Sensitive Devices.



IMPORTANT!

Performing procedures not described in this User's Guide or installing components not supplied by Altec AIR 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
OFF position	is in the ON position	to the ON position
	(section 8.4)	(section 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 surge		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	(OUTPUT) reading	regulator (section 8.8)
	(section 0)	
High Outlet Pressure	Verify High Outlet	Raise High Outlet
Alarm set point too low	Pressure Alarm set	Pressure Alarm set
	point	point (section 0)
	(section 0)	

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 8.8)	(section 11.1)
High Outlet Pressure	Verify High Outlet	Adjust Outlet Pressure
Alarm set point higher	Pressure Alarm set	Regulator so that Outlet
than default setting	point (section 8.7)	Pressure (OUTPUT)
		reading climbs over
		verified set point
		(section 9.11)
Defective Control	Verify that the Outlet	Replace Control Board
Board	Pressure (OUTPUT)	(section 11.1) if Outlet
	reading is higher than	Pressure (OUTPUT)
	the High Outlet	reading is over verified
	Pressure Alarm set	High Outlet Pressure
	point (Section 8.7)	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	(OUTPUT) reading	regulator (section 8.8)
	(section 0)	
Low Outlet Pressure	Verify Low Outlet	Lower the Low Outlet
Alarm set point too	Pressure Alarm set	Pressure Alarm set
high	point	point (section 8.7)
	(section 8.7)	
Leak in the air system	With no outlet flow,	Tighten any loose
	test fittings and hoses	connections as required
	for leaks (section 9.13)	

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 8.8)	(section 11.1)
Low Outlet Pressure	Verify Low Outlet	Adjust Outlet Pressure
Alarm set point lower	Pressure Alarm set	Regulator so that Outlet
than default setting	point	Pressure (OUTPUT)
	(section 8.7)	reading drops below
		verified set point
		(section 9.12)
Defective Control	Verify that the Outlet	Replace Control Board
Board	Pressure (OUTPUT)	(section 11.1) if Outlet
	reading is lower than	Pressure (OUTPUT)
	the Low Outlet Pressure	reading is under
	Alarm set point (above)	verified Low Outlet
		Pressure Alarm set
		point for more than 1
		minute and fails to
		create an alarm.

13.8 Can't Create a Low Pressure 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 8.7)	to 50 PSI, ± 2 PSI.
		(section 8.7)
Low Flow Rate	Verify Duty Cycle	Adjust Bleed Orifice to
	reading is greater than	increase duty cycle.
	10%	
High Humidity Alarm	Verify High Humidity	Raise High Humidity
set point too low	Alarm set point	Alarm set point
	(section 8.7)	(section 8.7)
	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 9.10)	condition
		(section 13.10)
Heatless Dryer not	Verify consistent	Troubleshoot
cycling between towers	Heatless Dryer cycling	Inconsistent Heatless
	(section 9.5)	Dryer Cycling
		condition
		(section 13.13)
Defective Control	Unplug Humidity	If Humidity did not
Board	Sensor from Control	immediately change to
	Board (see section 11.1	**.*% replace Control
	for Board location)	Board (section 11.1)
	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 9.10) procedures.

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

13.11 High Duty Cycle Alarm

Possible Cause	Check	Corrective Action
High System Pressure	Verify System Pressure (section 8.7)	Adjust System Pressure to 50 PSI, \pm 2 PSI.
		(section 8.7) (section 8.7)
High Downstream	Verify outlet flow from	Reduce dryer outlet
Flow condition	dryer is within unit	flow requirement or set
	specifications	duty cycle alarm
		threshold accordingly

Leak in air system	Check all hoses and	Connect, tighten, or
	fittings between	replace leaking
	compressor and Air	component
	Tank for air leaks	
	(section 9.13)	
Defective control board	Measure voltages at	If measurements are
	control board	incorrect, replace
	(section 9.3)	control board (section
		11.1)
Adjustable Bleed	Check locknut and	Re-adjust bleed orifice
Orifice set to high	On/Off lever	and tighten locknut.
		Verify position of
		On/Off lever

13.12 High Cabinet Temperature Alarm

Possible Cause	Check	Corrective Action
Fan Failure	Verify fan is running	Check for loose fan
	(section 9.7)	wiring (section 0)
		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
	40°-85°F.	

13.13 Inconsistent Heatless Dryer Cycling

Possible Cause	Check	Corrective Action
Defective Solenoid	Measure voltage going	If 110 - 125 VAC for
Valve	to the Heatless Dryer	the P210WLP or 208 -
	Solenoid Valve	253 VAC for the
	(section 9.6)	P212WLP IS present,
		replace Solenoid valve
Defective Cycle Timer	Measure voltage going	If 110 - 125 VAC for
	to the Heatless Dryer	the P210WLP or 208 -
	Solenoid Valves	253 VAC for the
	(section 9.6)	P212WLP IS NOT
		present, replace cycle
		timer
		(section 11.2)

Possible Cause	Check	Corrective Action
Defective compressor	Measure compressor	If voltage is good,
	voltage	replace compressor
	(section 9.3)	(section 11.1)
		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	
Compressor stalled	Measure compressor	Adjust incoming
	voltage	voltage / system
	(section 9.3) & Verify	pressure if necessary
	System Pressure	and Power the air Dryer
	(section 8.7)	OFF for 15+ seconds.
		Power the air Dryer
		ON.

13.14 Compressor Doesn't Operate

13.15 Compressor Won't Build Pressure

Possible Cause	Check	Corrective Action
Low System Pressure	Verify System Pressure	Adjust System Pressure
	(section 8.7)	to 50 PSI, ± 2 PSI.
		(section 8.7)
Leak in air system	Check all hoses and	Connect, tighten, or
	fittings between	replace leaking
	compressor and Air	component
	Tank for air leaks	
	(section 9.13)	
Compressor Piston	Check the pressure of	Replace the compressor
Leaking	the outlet air coming	piston seal included in
	from the compressor to	the Annual
	the pressure setting on	maintenance kit
	the capacity control	
	valve	

Possible Cause	Check	Corrective Action
Restriction in air line	Remove Discharge	If measurement is
	Hose from compressor	below the
	(hose to the heatless	recommended amps,
	Dryer)	trace hoses from
		compressor to Capacity
	Re-measure	Control Valve looking
	Compressor AMP	for restrictions or kinks
	Draw	
	(section 9.2)	
Compressor failing	Remove Discharge	If measurement is still
	Hose from compressor	above the
	(hose to the heatless	recommended amps,
	Dryer)	replace the compressor
		(section 11.1)
	Re-measure	or send it in for repair
	Compressor AMP	(section 12.)
	Draw	
	(section 9.2)	

13.16 Compressor Excessive AMP Draw

13.17 High Compressor Last Run Time Alarm

Possible Cause	Check	Corrective Action
Low System Pressure	Verify System Pressure	Adjust System Pressure
	(section 8.7)	to 50 PSI, ± 2 PSI.
		(section 8.7)
Leak in air system	Check all hoses and	Connect, tighten, or
	fittings between	replace leaking
	compressor and Air	component
	Tank for air leaks	
	(section 9.13)	
High Downstream	Verify outlet flow from	Reduce dryer outlet
Flow condition	dryer is within unit	flow requirement or set
	specifications	Compressor Last Run
		Time alarm threshold
		accordingly
Defective control board	Check that the	Replace Control Board
	compressor cuts out	(section 11.1)
	when the tank reading	
	reaches 50 PSI (344.7	
	KPA)	
	(section 9.3)	

13.18 Can't Create a High Compressor Last Run Time Alarm

Possible Cause	Check	Corrective Action
High Compressor Last	Verify High	Allow the compressor
Run Time Alarm set	Compressor Last Run	to run longer than the
point higher that the	Time Alarm set point	verified set point
default of 3:00 minutes	(section replace Control	(section 9.9)
	Board (section 11.1))	
Defective Control	Verify that the	Replace Control Board
Board	compressor has run	(section 11.1) if the
	longer than the verified	compressor runs longer
	High Compressor Last	than the verified High
	Run Time Alarm set	Compressor Last Run
	point (above)	Time Alarm set point
		by 1 minute or more
		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 Altec AIR Technical Support

Please read the *Before You Call Altec AIR* 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 Altec AIR Technical Support:

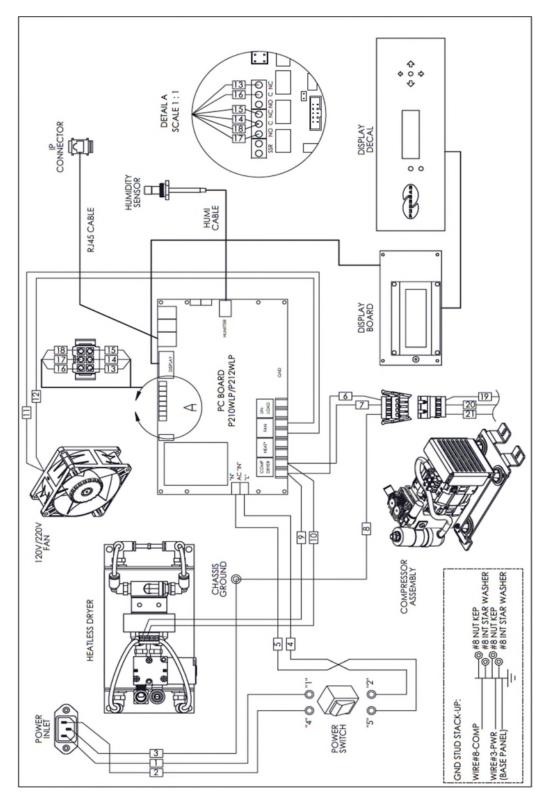
(800) 521-5351 (option 1)

Have the following information available:

Trouble Ticket # (if following-up on a previous 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			50	PSI
Outlet Pressure	0.30 (2.1)	7.5 (51.7)		PSI (KPA)
Alarm Delay	OFF	ON	ON	

14.2.2 Alarm Set Points

Description	Minimum Value	Maximum Value	Default Value	Unit of Measurement	Shutdown
High Outlet Pressure	0.30	7.50	7.50	PSI	
Alarm	(2.1)	(51.7)	(51.7)	(KPA)	
Low Outlet Pressure	0.30	7.50	0.30	PSI	
Alarm (LP UNITS)	(2.1)	(51.7)	(2.1)	(KPA)	
High Humidity Alarm	3	15	10	%	YES
High Duty Cycle Alarm	0	99	70	%	
High Compressor Last Run Time Alarm	2:00	10:00	5:00	Minutes	
High Cabinet			120	DEG F	YES
Temperature Alarm			(49)	(DEG C)	
Compressor Total Run Time Alarm			2,000	Hours	

14.2.3 System Operations

Description	ON Value	OFF Value	Default Value	Unit of Measurement
Compressor	20 (137.9)	50 (344.7)		PSI (KPA)
Fan	90 (32.2)	80 (26.7)		DEG F (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 (Tactory Preset) IP Address Numeric (Tactory Preset) Subnet Mask Numeric (XXXXXXXXXXX) Subnet Trap Server Address Numeric (XXXXXXXXXXX) SNMP Trap Server Address Numeric (XXXXXXXXXXX) SNMP Read Community String Alphanumeric (6-14 digits, Default = (also sets SNMP Trap Community String) SNMP Write Community "123456" Status Readings (Read-Only) Unumeric (PSI or KPA) Outlet Pressure Reading Numeric (PSI or KPA) Humidity Reading Numeric (%) Compressor Total Run Time Reading Numeric (%) Compressor Status ON / OFF Alphanumeric (%) Compressor Status ON / OFF ON / OFF Alarm Mick / Alarm High Humidity Alarm OK / Alarm High Outle Pressure Alarm OK / Alarm Duty Cycle Alarm OK / Alarm High Humidity Alarm OK / Alarm	Device Configuration Information	
Device Firmware Version Numeric (Eactory Preset) Current Date/Time Numeric (mm/dd/yy hh:mm) IP Address Numeric (xxx.xxx.xxxx) Subnet Mask Numeric (xxx.xxx.xxxx) Gateway Address Numeric (xxx.xxx.xxxx) SNMP Trap Server Address Numeric (xxx.xxx.xxx.xx) SNMP Read Community String Alphanumeric (6-14 digits, Default = (also sets SNMP Trap Community String) 'public'') SNMP Write Community '123456' Status Reading (Read-Only) Unumeric (PSI or KPA) Outlet Pressure Reading Numeric (PSI or KPA) Humidity Reading Numeric (PSI or KPA) Compressor Total Run Time Reading Numeric (%0) Cabinet Temperature Reading Numeric (BGG F or C) Duty Cycle Reading Numeric (Stords) Compressor Total Run Time Reading Numeric (Stords) Compressor Status ON / OFF Fan Status ON / OFF Fan Status ON / OFF Alarm Readings (Read-Only) Mineric (%) High Outlet Pressure Alarm OK / Alarm High Compressor Last Run Time Alarm OK / Alarm		
Current Date/Time Numeric (mm/dd/yy hh:mm) IP Address Numeric (xxx.xxx.xxx) Subnet Mask Numeric (xxx.xxx.xxx.xx) Gateway Address Numeric (xxx.xxx.xxx.xx) SNMP Trap Server Address Numeric (xxx.xxx.xxx.xx) SNMP Trap Server Address Numeric (xxx.xxx.xxx.xx) SNMP Mead Community String Alphanumeric (6-14 digits, Default = (also sets SNMP Trap Community String) SNMP Write Community "123456" Status Readings (Read-Only)		
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15. Limited Warranty Agreement

Altec AIR 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 Altec AIR.

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 Altec AIR product which shall have been repaired or altered in any way by anyone other than Altec AIR 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 Altec AIR parts will void the warranty on those Altec AIR products.

Registration Reminder

If you haven't already done so, please take a moment to register your PUREGAS P210WLP 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 Altec AIR products.

See Section 7. for details on Registering Your Dryer.

16. Contacting Altec AIR 16.1 General Altec AIR, LLC 226A Commerce Street Broomfield, Colorado 80020 (800) 521-5351 (303) 427-3700 Fax - (303) 657-2233 info@AltecAIR.com www.AltecAIR.com 16.2 Sales (800) 521-5351 (option 2) Fax - (303) 657-2205 sales@AltecAIR.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
