












	Part Name / Description: 1001321 & 1001322 24V DC P1 Humidity in P2	Instruction #: OP100036	Page 1 of 10
	Operation Instruction Title: Platinum Humidity Installation	Revision Date: 06/28/2018	Revised By: V. Frail
		Revision No. 0	Approved By: S. Ditner


Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100026 Step 1	<p>Ensure you have one humidity pack per cabinet, either:</p> <ul style="list-style-type: none"> • 1001321 P1 Humidity in P2 24V Single Zone • 1001322 P1 Humidity in P2 24V Double Zone <p>See end of document for bill of materials of both.</p>		<p>Throughout:</p> <p>Safety Shoes Safety Glasses Hearing protection as required Additional equipment as required by the site</p>
Solenoid Assembly			
OP100026 Step 2 	<p>Begin by assembling the solenoids.</p> <p>The solenoid will be in the box inside the humidity pack.</p>		
OP100026 Step 3 	<p>Remove the bracket from the rear of the 1001352 solenoid.</p> <p>Keep the screws.</p>	#1 Phillips screwdriver	
OP100026 Step 4 	<p>Install the bracket on the AB7351 valve support bracket using 2x PT1191 screws, 2x PT1195 flat washers through the bracket, and 2x PT1194 lock washers with 2x P602S nuts on the back of the valve support bracket.</p>	Screwdriver	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100026 Step 5 	Remove the red plugs from the solenoid. Locate the PB4190 1/4" male connector and thread into the left side of the solenoid. Ensure the arrow on the solenoid block is pointing towards this fitting. Tighten.	Wrench	
OP100026 Step 6 	On the opposite side of the solenoid, thread in the 3/8" male connector. Tighten.	Wrench	
OP100026 Step 7 	Mount the solenoid to the bracket using the screws removed in Step 3. Ensure the direction of flow, as marked on the solenoid valve, is to the left. Also ensure that the plug will protrude to the front of the assembly.	#1 Phillips Screwdriver	
OP100026 Step 8 	Use 4x P6200 self-drilling screws to mount the solenoid assembly inside the lower section of the console. Center it over the screw from the ECU support, with the top of the bracket level with this screw.	Cordless drill #2 Phillips driver bit	

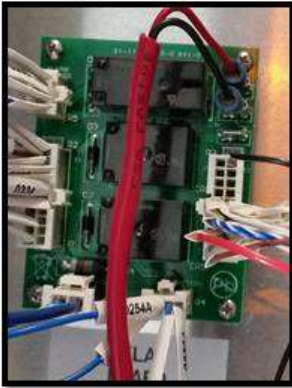
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Nozzle Assembly			
OP100026 Step 9 	Thread a PB5930 Union onto each PB5926 black tee until finger tight. Be careful as either end of the union is threaded oppositely.		
OP100026 Step 10 	Thread a PB5678 spray nozzle into each union, until finger tight.		
OP100026 Step 11  	Mount the black tees with nozzles to the MB20342 nozzle support brackets, using PT1187 screws, PT1192 lock washers and P870 nuts. Ensure the screws enter from the tee side. The tee should be mounted so that it will protrude with the bracket. Repeat to make 4 assemblies. The nozzle side of the tee should face left for two of the assemblies and right for the other two. Note: 8 assemblies are required for a double-depth cabinet.	#1 Phillips screwdriver	

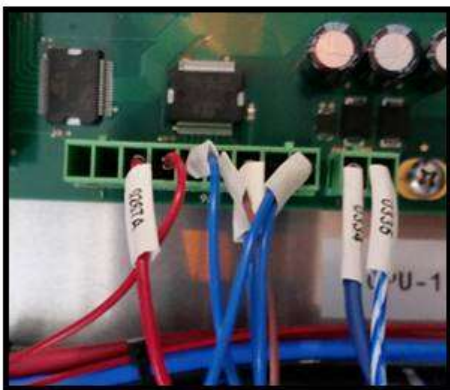
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
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Wiring the Solenoid



Black: R3-10



Red: P6-4



Busbar for Ground Connection

Gland


OPxxxxxx Step 12


Use a screwdriver to create a hole in the cable gland at the right side of the bottom of the controls housing.


OPxxxxxx Step 13








Carefully thread the leads off the solenoid through the gland, being careful not to damage the connectors.



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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OPxxxxx Step 14	Wire the 3 conductors as follows: Black: R3-10 on the relay control board Red: P6-4 on the main control board Green: Ground at busbar Note: The black and red wires will “snap” into place when fully seated.		
Outfitting the ECU & Running the Tubing			
OP100026 Step 15 	Install the spray nozzles through the pre-drilled holes in the console, using the hole closest to the air intake and the hole towards the center. Repeat for the other side of the ECU. Note: For double depth cabinets, use the first and center holes from the center support, and point the nozzles away from the center support.		
OP100026 Step 16	Insert the ¼” tubing into the supply side of the console, and tighten the ferrule.	Wrench	
OP100026 Step 17	Drill a 3/8” hole in the upper right corner of the lower portion of the console. Note: ensure that this hole will pass into the front channel of the ECU, where the humidity tubing will be located.	Cordless drill 3/8” drill bit	
OP100026 Step 18	Thread the tubing through the hole, removing the slack.		




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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100026 Step 19 	<p>Cut the tubing inside the console near the top of the loop to insert the quick disconnect system.</p> <p>Connect a 1/4" fitting to the female quick disconnect and attach to the 1/4" tubing.</p> <p>Attach the male part of the quick disconnect using a 1/4" fitting.</p> <p>Note: the male portion must be located on the ECU side.</p>	Plastic tubing cutters Wrench	
OP100026 Step 20 	<p>Inside the side frame of the ECU, cut the plastic tubing approximately 6" long.</p> <p>Note: On the classic Platinum, this portion was completed on the left side of the ECU. For the 24V DC, this will be completed on the right side of the ECU.</p>	Plastic tubing cutters	
OP100026 Step 21 	<p>Insert the 1/4" tubing coming through the ECU into the bottom side of the white plastic tee.</p>		
OP100026 Step 22 	<p>Insert the 1/4" tubing into one side of the white plastic tee.</p>		


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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100026 Step 23 	Measure and cut the tubing to the distance to the first nozzle assembly. Install into the nozzle assembly.	Plastic tubing cutters	
OP100026 Step 24 	Run a piece of tubing from the bottom of the first nozzle assembly to the second nozzle assembly on that side of the ECU.	Plastic tubing cutters	
Step 24 (b)	Double depth only: Run the tubing from the bottom of the last nozzle assembly on the front ECU to the first nozzle on the second ECU, with slack in between. Cut in the center and install a quick disconnect as in Step 24 and 25. The male connection should be on the tubing to the rear ECU.	Plastic tubing cutters Wrench	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>OP100026 Step 25</p> 	<p>Install a plug in the bottom of the tee of the last nozzle assembly on that side.</p> <p>For double depth cabinets, this will be on the last nozzle on the rear ECU only.</p>		
<p>OP100026 Step 26</p> 	<p>Insert the tubing into the open side of the white tee.</p> <p>Feed the tubing through the front channel on the ECU.</p>		
<p>OP100026 Step 27</p> 	<p>Run the tubing on the other side of the ECU in the same manner as described in steps 23-25.</p>		

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100026 Step 28 	Connect the Quick Disconnect at the ECU and console. For double depth machines, also connect both quick disconnects at the center ECU stand.		
Humidity Water Supply			
OP100026 Step 29	Connect the 3/8" humidity supply tubing to the fitting on the solenoid. Tighten.		
OP100026 Step 30	Drill a 1/2" hole from the lower to the upper section of the console on the right side. Insert a snap grommet and thread the tubing through.		
OP100026 Step 31	Drill a hole in the top of the console, or use an existing hole if available, insert a grommet, and thread the 3/8" tubing through.		
OP100026 Step 32	The contractor should connect from the main humidity line to the 3/8" line. There must be a shut off valve on the drop to the cabinet.		

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1001321 P1 Humidity in P2 24V Single Zone

Part #	#	Description
PB4190	1	CONNECTOR - MALE 1/4T-1/4 PT
PT1234	4	Machine Screw - #10-32 x 0.625,Pan, , Stainless Steel
P870	12	Nut - #4-40 HEX NUT STAINLES STEEL
PB5819	1	Tee - PUSH TO CONNECT - 1/4 TUBE
PB5926	6	Tee - SWIVEL RUN 10-32 X 1/4T
PT1187	12	Machine Screw - #4-40 x 0.75,Pan, , Stainless Steel
PT1191	2	Machine Screw - #10-32 x 0.375,Pan, , Stainless Steel
AB7351	1	VALVE - SUPPORT
P4253	16	Tube - 1/4" NATURAL (250'/ROL)
PB5928	2	Plug - TUBE FITTING 1/4T
PB3140B	2	BUSHING - SNAP 1/4 OD TU SB375-4
PB1989	1	Terminal - 1/4" KWIK CONNECT INSERT
PT1192	12	Washer - SS LOCK SPLIT #4
PT1194	2	Washer - SS LOCK SPLIT #10
PB1808	1	CONNECTOR - BRASS - 1/8T X 1/8FP
PT1195	2	Washer - FLAT #10 S.STEEL
1001352	1	HUMIDITY SYSTEM SOLENOID VALVE ASSEMBLY
PB5930	6	Union - 10-32 X 10-24
PB2921	1	BUSHING - #2038-SB437-4
PB1800	1	CONNECTOR - KWICK CONNECT
P4161	19	Tube - 3/8" CLEAR (500'/ROLL)
PB5678	6	Nozzle - - BRASS AND STAINLESS
PB1791	1	ADAPTER - MALE CONNECTOR 3/8T-1/4PT
PM2079	1	CARTON - 13 1/8 X 10 1/8 X 6 3/8
P6157	4	Washer -
P602S	6	Nut - 10-32 S.S. HEX
MB20342	6	BRACKET - NOZZLE SUPPORT

1001322 P1 Humidity in P2 24V Double Zone

Part #	#	Description
MB20342	8	BRACKET - NOZZLE SUPPORT
PB5926	8	Tee - SWIVEL RUN 10-32 X 1/4T
PB5930	8	Union - 10-32 X 10-24
PB5678	8	Nozzle - - BRASS AND STAINLESS
PB5928	2	Plug - TUBE FITTING 1/4T
P4253	50	Tube - 1/4" NATURAL (250'/ROL)
P870	16	Nut - #4-40 HEX NUT STAINLES STEEL
PT1187	16	Machine Screw - #4-40 x 0.75,Pan, , Stainless Steel
PT1192	16	Washer - SS LOCK SPLIT #4
PB1989	3	Terminal - 1/4" KWIK CONNECT INSERT
PB5819	1	Tee - PUSH TO CONNECT - 1/4 TUBE
PB2921	3	BUSHING - #2038-SB437-4
PB1800	3	CONNECTOR - KWICK CONNECT
PB1808	3	CONNECTOR - BRASS - 1/8T X 1/8FP
AB7351	1	VALVE - SUPPORT
PT1195	2	Washer - FLAT #10 S.STEEL
PT1191	2	Machine Screw - #10-32 x 0.375,Pan, , Stainless Steel
PT1194	2	Washer - SS LOCK SPLIT #10
P602S	6	Nut - 10-32 S.S. HEX
PB1791	1	ADAPTER - MALE CONNECTOR 3/8T-1/4PT
PB4190	1	CONNECTOR - MALE 1/4T-1/4 PT
1001352	1	HUMIDITY SYSTEM SOLENOID VALVE ASSEMBLY
P4161	19	Tube - 3/8" CLEAR (500'/ROLL)
PB3140B	2	BUSHING - SNAP 1/4 OD TU SB375-4
PT1234	4	Machine Screw - #10-32 x 0.625,Pan, , Stainless Steel
P6157	4	Washer -
PB3052	1	BUSHING - 7/16" I.D. NYLON #2066
PB3141B	2	BUSHING - SNAP 3/8 OD TU SB500-6
PB4529	1	CONNECTOR - PG7 LIQUID TIGHT
PM2079	1	CARTON - 13 1/8 X 10 1/8 X 6 3/8