Med/Lab Vacuum System

Start-up and Warranty Registration Form

System Serial Number:_____ Date:_____

Pre-start and initial start-up procedures must be performed by an authorized representative of Pattons Medical.

Unit Information:

Model #		Drawing #	
Voltage		System FLA	

Start-up Representative:

Company	
Representative	
Address	
City, State, zip	
Phone Number	
email	

End user Representative:

Facility	
Contact	
Address	
City, State, zip	
Phone Number	
Email	

Installation:

Room Temperature		Supply Voltage/Amps	
Estimated Max Room Temp		Good Ventilation	
System Mounted Level		Service Spacing (24”)	
Unit Anchored to floor		Facility Intake Piping Size	
36” clearance for Controls		Facility Exhaust Piping Size	
Note any issues to be addressed:			

Pre-Start Checks:

Motor FLA on nameplate		Overload Relay Setting	
Intake piping connected		Inlet Valves opened	
Exhaust piping connected		Receiver bypass valves correct	
Flex hose of each exhaust		Drain valve closed on receiver	
Drip leg on each exhaust		Electrical wiring connected	
Oil Level checked (if appl)		All electrical connections checked	
Filters clean		VFD: Control Panel fan blowing out	
Other wiring connected (if applicable)			
Note any issues to be addressed:			

Initial Checks (with power to system):

Voltage:	L1-L2		L2-L3		L3-L1	
	L1-GND		L2-GND		L3-GND	
Motor rotation checked on all compressors				24 VDC Power Supply Out		

Notes:

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Individual Module Checks:

	Vacuum #							
Item to check:	1	2	3	4	5	6	7	8
Transformer Output Voltage								
Motor Rotation (VFD) *See Notes								
Motor Rotation (Fixed Speed)								
Amps (from System Health Reading)								
L1 amps								
L2 amps								
L3 amps								
Overload Setting (from System Health)								
Relief valve setting (highest vacuum level)								
High Temp Alarm operation								
Motor Overload Alarm operation								
Exhaust piping with flex hose and drip leg								
Oil level good (also checked after running)								
Exhaust temperature normal								
Alternation thru vacuums good								
Cutout settings								

Notes: For VFD systems, VFD will not operate if Vacuum level is 0.0. So bump in hand (correct rotation) to get above 2"Hg.
Check rotation in AUTO (VFD) first. If incorrect, swap 2 wires to motor.
When all correct rotation in VFD, then check hand. If 1 incorrect, all should be. So swap 2 power input wires.

System Checks:

Alternation Verified		Alarms	
Noise and Vibration acceptable		Lag Alarm	
Check for leaks		Common Alarm	
HMI vacuum close to gauge vacuum?		High Temp Alarms	
Back-up vacuum switch setting			

Notes:

We the undersigned having observed the start-up of this equipment, certify that the information given is true and correct to the best of our knowledge. We also understand that any deficiencies listed and not corrected may affect the warranty.

Start-up Rep:_____ End User Rep:_____

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