

Technician

REQUIRED FIELDS

Company Performing Inspection

TION TO THE FACTORY RFORMING ANY WORK

Liberty Pumps [*]	- OWIT HASTE
Engineered Products	REPORT THE RESULTS OF THIS INSPECT
ingineered Froudcts	BEFORE PER

Pump Model

Date of Inspection	Pump Serial		Pump Date Code			
Customer	ı	Pump Install Location				
Pump Details and Notes:						
Impeller/Cutter Rotation	on					
Check for free rotation of the pump by rotating the impeller or cutter by hand. It's recommended a ratchet with an Allen driver be used to turn the impeller/cutter screw. Rotate the impeller/cutter in the clockwise direction when viewing the pump from the bottom. An arrow denoting direction of rotation should be cast into the bottom of the volute.						
Does the pump turn free	ely and smoothly?	Yes	No			
Notes:						
Ground Continuity Ver	ification					
Check for continuity between the <i>green</i> ground lead of the <i>power cord</i> and a point on the exterior of the pump. One of the stainless steel fasteners is recommended as the exterior test point. Use an ohmmeter to check resistance.						
Resistance:	ohms					
Important: If the measured value is greater than 0.25 ohm or if the circuit is open, DO NOT contine testing and consult the factory.						

Motor Winding Resistance Verification Use an ohmmeter to record motor winding resistances at the *power cord* leads: Black to White: ohms Black to Red: ohms

ohms

Dielectric Withstand Test (Hipot) of Motor Windings

Apply 1500 VAC to the power cord leads (B,W,R) with the *green power cord* lead grounded. Apply test voltage for a minimum of 10 seconds. All 3 motor leads (B,W,R) may be tested at the same time, or individually, if desired.

Pass Fail

Important: If the motor windings fail this test, DO NOT continue testing and consult the factory.

Notes:

Red to White:

Dielectric Withstand Test (Hipot) of Motor Thermostat Circuit

Apply 1500 VAC to the power cord leads (B,W,R) with the *leads of the *control cord* grounded. Apply test voltage for a minimum of 10 seconds.

Pass Fail

Notes:

* black and white for 5-wire cords black and green for 4-wire cords

Thermostat Circuit Verification (Control Cord)

Use an ohmmeter to check resistance between the *leads of the control cord:

Resistance: ohms

* black and white for 5-wire cords black and green for 4-wire cords

Seal Fail Circuit Verification (Control Cord)

	Use an ohmmeter to check resistance between the *leads of the control cord:							
	Resistance:	ohms	* red and orange red and white fo					
١	Motor Winding Megohmmeter (Megger®)/Insulation Resistance Test							
	Apply 1000 VDC for 60 seconds*. Apply test voltage between the <i>green ground</i> lead of the <i>power cord</i> an each power cord lead (<i>Black, White, Red</i>). 3 total tests will be performed.							
	*If a 1000V test is not available any test voltage 500 VDC or greater is acceptable. If a 60 second test is not possible record actual test duration in the results below.							
	Test Voltage:	VDC	Test Duration:	seconds				
	Measured Resistances:							
	Black to Ground:	ohms	S					
	White to Ground:	ohms	S					
	Red to Ground:	ohms	S					
	Ory Run - Run Check							

If the pump has passed the Ground Continuity Verification and both Hipot tests, run the pump for a short period of time in air (dry run) at the rated voltage and frequency indicated on the nameplate. Record amp draw on each leg, if possible.

Note: 1-Phase pumps require the appropriate start circuit to run. Consult the factory for more information.

Test Voltage: **VDC Test Frequency:** Hz

Does the pump start and run smoothly and free of excessive noise or vibration?

Yes No

Additional Notes or Observations:

Measured Amp Draw:

Black: amps

White: amps

Red: amps

