creo

Drum Vacuum Pump
Startup Test Record

DVP Serial No: _____

Checks Complete By: _____

Completed Date: _____

1. PRE-POWER CHECKS

_____1. Wiring diagram is applied to inside cover of Power Junction Box

1.1 DVP Wiring Checks

_____1. All internal cabling is checked against drawing inside junction box and assembly drawing.

_____2. All internal cabling is tightened to connectors and ground points

_____3. All wiring passes “TUG” test

1.2 DVP Ground Checks

_____4. DVP Chassis to ground stud inside junction box

_____5. DVP Chassis to vacuum motor casing

_____6. DVP Chassis to ground screw on 1” conduit

_____7. DVP Chassis to all three ground wires on cable to DVD

2. DVP DIELECTRIC STRENGTH AND GROUNDING TESTS

2.1 Dielectric Strength Test – Vacuum Pump Motor

_____1. Resistance between DVP Chassis and ground terminal of the Dielectric Strength Tester is less than 1.0 ohms

_____2. Dielectric Strength Test passed with 2818 Vdc for 5 seconds

2.2 Dielectric Strength Test – EBM Fan

_____3. Resistance between DVP Chassis and ground terminal of the Dielectric Strength Tester is less than 1.0 ohms (different connection to Dielectric Strength Tester).

_____4. Dielectric Strength Test passed with 2121 Vdc for 5 seconds

3. DVP POWER STARTUP

NOTE: Complete this section if the Drum Vacuum Pump is being manufactured or refurbished for field service use (will not be combined with a Drum Vacuum Drive for shipment).

3.1 AC Power Test

_____1. Resistance between DVD chassis and DVP chassis less than 1.0 ohms

_____2. Production DVD Cover (with cut out) installed

_____3. Liquid Crystal Display (LCD) comes on when power applied

3.2 Programming the DVD Inverter

_____4. DVD is programmed as per document 709-00268A

3.3 Verify Drum Vacuum System: Manual Operation

_____5. Drum Vacuum Pump intake is unblocked

_____6. DVP exhaust (muffler) is unblocked

_____7. DVP reaches specified manual speed (frequency = 60 Hz)

_____8. DVP creates vacuum (manual operation)

_____9. DVP cooling blower (EBM fan) is functional and moving air in the correct direction

4. FINAL CHECKS

4.1 Labels

_____1. All labels have been applied (see Appendix A)

5. COMMENTS

APPENDIX A – LABEL LIST

THERMOFLEX SAFETY AND MACHINERY DIRECTIVE LABEL LIST

√ N/A	LABEL	QTY	TEXT/SYMBOL/COMPOENT	LOCATION
	74-3065	1	High Leakage Current	Side of DVP chassis
	382-01121A	1	DVP Name Plate and Serial #	Side of DVP chassis
	74-3014B	1	CSA Mark (C-US)	Side of DVP chassis
	382-01235A	1	Part Number	Side of DVP chassis

Note: Place each label as per assembly drawing 500-02732A