Klinge Corporation

PTI form for all PFR 561 models

Date:	Serial number:	Location:
Date of last pre trip inspection if known:		Container number:

Note: Manual available on www.klingecorp.com; unit revision number found on data plate.
Note: Record all information pertaining to testing tools used below:

Multimeter ID#_____
Calibration Date _____
Calibration Due Date _____
Amp Clamp ID#_____
Calibration Date _____
Calibration Due Date _____

Trained Operator and Date:_____

PRE-OPERATION TEST	Initial = **OK**
1. With **NO POWER** to the unit, check unit visually for physical damage:	
a. Refrigeration unit frame for structural or defective damage	
b. Refrigeration sheet metal for corrosion or defective damage	
c. Piping – no corrosion or physical damage to impede operation	
d. Compressor/Fans – no broken components and no appearance in defect of structural integrity	
e. Coils – no visible damage or bent/broken fins	
2. Major hold-down bolts present and fittings for main power cable present	
3. Control boxes are properly secured in their locked positions	
4. Open control box cover and check that all electric components are secured:	
a. Wires/ferrules are securely connected	
b. Wires are in good condition – no cracks, splits, or bare conductors	
c. Contactors/boards are securely connected	
d. Contactors/breakers/overloads operate properly – no sticking, easy release	
5. Check the gasket on control box covers. Be sure the latches hold the covers tightly closed.	
6. Check cleanliness of the condenser coils and steam or air clean if necessary.	
7. Check all refrigerant joints and connections thoroughly for traces of oil or stains indicating small refrigerant leak.	
8. From the container side, verify proper location of return probes protruding through the return air cavity on left side.	
9. Open evaporator door and verify proper location of defrost probe inserted into evaporator coil.	

OPERATIONAL TEST - Connect main power and ensure battery charging cable connected.	Initial = **OK**
1. Close circuit breakers (CB1) of system	
2. Initiate the function test by holding the "Manual Defrost" switch while turning the “ON /OFF” switch to the “ON” position.	
3. Watch the LEDs and follow the side label on the primary thermostat as it steps through the test. If an LED flashes during its Step of the test, this indicates a fault in the Function Test and test will stop.	
a. ON – Green LED	
b. COOLING – Yellow LED 1	
c. UNLOADING – Yellow LED 2	
d. HEATING – Yellow LED 3	
e. TEMPERATURE – Red LED 1	
f. ALARM – Red LED 2	
g. DEFROST – Yellow LED 5	
h. RETURN AIR PROBE – Yellow LED 6	
4. After completion of function test adjust Set Point to 2~3 °C below container temperature.	
a. Set Point reached, refrigeration stops.	
b. Container temp rises above Set Point, refrigeration cycle restarts.	
5. During refrigeration operation record amperage of the compressor motor, the condenser motor and the evaporator motor. Should be within following ranges:	

Compressor	10.3-11.0 A		L_1	L_2	L_3
Condenser	1.4-1.5 A		L_1	L_2	L_3
Left Evap Fan	0.4-0.5 A		L_1	L_2	L_3
Right Evap Fan	0.4-0.5 A		L_1	L_2	L_3

Check the rotation of all three fans. See arrows marking correct direction	
6. Check the rotation of all three fans. See arrows marking correct direction	
7. Test the phase change sensor - press the black button and observe the reverse direction of the fans	
8. Adjust set point to -18°C after temperature reaches -5°C put unit on manual defrost. (Hold defrost switch on for 5 seconds)	
a. Evaporator fans stop, condensing fan stops.	
b. Compressor remains operating.	
9. After defrost terminates, run unit for 15 minutes and check refrigerant in receiver sight glass. Ball should be down at the top and floating at the bottom.	
10. While unit is running, verify air circulation inside container through T sections of floor.	

OPTIONAL DATA LOGGER TEST

1. If fitted with Euroscan, print out the data from this PTI by pressing the blue print button and attach printout to this PTI form	
2. Set Euroscan to customer's required product limits; verify entry and storage of the values.	
a. Record limits here:	
3. Verify that the alarm function of the Euroscan is activated	
4. If fitted with Partlow, replace the chart and wind mechanical drive	
NOTES:	

Test Operator Signature	**Date**		
Quality Control Signature	**Date**	**Unit Ship Date**	**Date**

By signing this form we are acknowledging that any discrepancies in the recorded data have been noted and accepted.