

Klinge Corporation

PTI form for all ATEX PFR 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.

Operator and Date:

PRE-OPERATION TEST - (Can be performed in hazardous location)	Initial = OK
1. With NO POWER to the unit, check unit visually for physical damage:	
a. Refrigeration unit frame and sheet metal for structural or defective damage	
b. Piping – no physical damage to impede operation or showing corrosion porosity	
c. Compressor/Fans – no broken components and no appearance in defect of structural integrity	
d. Coils – no visible damage, bent/broken fins, or corrosion.	
2. Major hold-down bolts present and visually tightened	
3. Control box window is clear and display pad is readable.	
4. All control box surface buttons are in good condition with plastic caps in place and not cracked, and switches not loose.	
5. Check control box and the junction box covers - all bolts are present, visually tightened and holding 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.	
OPERATIONAL TEST - Connect main power (Can be performed in hazardous location)	Initial = OK
1. Turn “ON” Main Switch, located in lower left corner of unit.	
2. Initiate the function test by holding the "Manual Defrost" switch while pushing the “ON /OFF” switch to the “ON” and holding for 10 seconds.	
a. Watch the LEDs on the thermostat as it steps through the test as shown below.	
NOTE: DO NOT follow front label ID’s. Function test label is not viewable in window and is replicated below.	
i. All LED’s Flashed, returning to LED 1 ON (Remaining ON through test duration.)	
ii. Step 1 Phase Sense = LED 3 FLASHING	
iii. Step 2 Evap. Fans = LED 3 ON, LED 4 FLASHING	
iv. Step 3 Cond. Fan = LED 3 - 4 ON, LED 5 FLASHING	
v. Step 4 Compressor = LED 3 - 5 ON, LED 6 FLASHING	
vi. Step 5 Unloader = LED 3 - 6 ON, LED 7 FLASHING	
vii. Step 6 Hot Gas/Heat = LED 3 - 7 ON, LED 8 FLASHING	
viii. Step 7 Alarms = LED 3 - 8 ON, LED 9 FLASHING	
ix. Step 8 Probe Check = LED 3 – 9 ON, LED 10 FLASHING	
3. Allow unit to go into “Cooling” and set temperature to -5°C	
4. After temperature reaches -5°C put unit on manual defrost. (Push Defrost switch in for 5 seconds)	
a. Compressor remains operating.	
5. After defrost terminates, run unit for 15 minutes and check refrigerant in receiver sight glass. Ball should be full top in lower sight glass and at floating near top of upper sight glass	
6. Increase the set point temperature to 20° over displayed return temperature:	
a. Note that “HEAT” LED is illuminated	
b. Condenser fan deactivates, compressor and evaporator fan remains active	
c. Increase in box temperature = >10° over 10 minutes.	
7. While unit is running, verify air circulation inside container through T sections of floor.	
8. If applicable, ensure no refrigerant leaks.	

****THIS PORTION OF THE PTI IS TO ONLY BE COMPLETED IN NON-HAZARDOUS LOCATIONS****
 (IF UNIT IS LOCATED IN HAZARDOUS LOCATION AT TIME OF INSPECTION, DISREGARD THIS PAGE)

PRE-OPERATION TEST						Initial = OK
1. With NO POWER to the unit, check unit visually for the following:						
a. Open control box cover and check that all electric components are secured:						
i. Wires/ferrules are securely connected						
ii. Wires are in good condition – no cracks, splits, or bare conductors						
iii. Contactors/boards are securely connected						
iv. Contactors/breakers/overloads operate properly – no sticking, easy release						
b. Check that CB1, CB2, CB3 are all in the closed (ON) position.						
c. Check the seal on control box door, and ensure no damage.						
OPERATIONAL TEST - Connect main power						Initial = OK
1. Turn "ON" Main Switch, located in lower left corner of unit.						
2. During refrigeration operation record amperage of the compressor motor, the condenser motor and the evaporator motors. Use a multimeter and amp clamp to collect values. Should be within following ranges:						
Compressor	5.0-11.0 A		L1	L2	L3	
Condenser	1.0-2.5 A		L1	L2	L3	
Left Evap Fan	0.15-1.00 A		L1	L2	L3	
Right Evap Fan	0.15-1.00 A		L1	L2	L3	
Heaters(optional)	0.5-2.0 A		L1	L2	L3	
3. Check the rotation of evaporator fans and condensing fan. See arrows marking correct direction						

Test Operator Signature	Date	Engineer / Designee	Date

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