

Klinge

PTI form for all QTU-42 Equipment

Customer:	Location:	Date:
Condenser Serial #:	Tech Name:	
Electrical Box Serial #:	Date of last PTI (if known):	

Note: Manuals can be requested by contacting: service@klingecorp.com

***** With NO POWER to the refrigeration unit, check unit visually for physical damage:	Initial = OK
Ensure major hold-down bolts are tightened, and all cables and fittings are in good condition.	
Open control box Door and check that all electric components are secured and that the terminal connections are tight using a screwdriver if necessary.	
Be sure the locking latches on electrical box door hold the cover tightly closed.	
Check cleanliness of the condenser coil and steam or air clean if necessary.	
Check all refrigerant joints and connections thoroughly for traces of oil or stains indicating small refrigerant leak.	
Check the evaporator coil for cleanliness and any damages.	
Check blower wheels for tightness and damage. Ensure these are not rubbing the shrouds.	
Ensure the heater elements are free of debris and are clean. Ensure these are not broken.	
Ensure the movable ceiling is not damaged and operational.	
Ensure the tarp for the ceiling is not damaged in any way.	

System Check with **Power** to the Equipment:

***** An Amp Clamp, Multi Meter and Refrigerant Gauge set Will Be Needed:				Initial = OK
At Main Control Box with the Door Open, locate CB1.				
Check main voltage to the equipment at CB1	(L1-L2):	(L2-L3):	(L3-L1):	
Ensure OL10 relay for condenser fan is set.			1.2 Amps:	
Ensure OL3 relay for fan motor left is set.			7 Amps:	
Ensure OL1 relay for fan motor right low speed is set.			3 Amps:	
Ensure OL2 relay for fan motor right high speed is set.			7 Amps:	
Ensure OL9 relay for compressor motor is set.			12.5 Amps:	
Ensure OL5 relay for heat step 1 is set.			20 Amps:	
Ensure OL6 relay for heat step 2 is set.			16 Amps:	
Ensure OL7 relay for heat step 3 is set.			16 Amps:	
Ensure OL8 relay for heat step 4 is set.			16 Amps:	
Ensure all Overloads are turned to the ON position.				
Once all is checked and set turn CB1 to the ON position				
Ensure that the Safety Relay pulls in after unit ON.				
Check Voltages at the Transformer using a Voltmeter				
Check High Voltage on Transformer Between H1 and H4			Vac:	
Check 28 Volt Terminals at X1 and X2			Vac:	

Check 20Volt Terminals at 5 and 6	Vac:	
Check 24 Volt Terminals at 3 and 4	Vac:	
Turn the Main Breaker OFF and close the main control box door.		
Check Compressor Oil Level. Should be at least ¼ full		
Note the Discharge Pressure at Compressor	Pressure:	
Note the Suction Pressure at Compressor	Pressure:	
Turn the Main Breaker Switch back to ON from door.		
Check function of container lights		
Check the function of E-stop.		
NOTE: CB1 will need to be reset after this check.		

At the Display panel ensure Unit is Turned ON .	
Allow unit to go through booting mode.	
NOTE: Red Alarm light and Green Power light will be on until passing the booting stage. Red Alarm Light will go OFF after this.	
Using the UP arrow scroll to Commands. (Commands must be on top of the display screen.)	
Enter Commands menu and scroll down to AUTO TEST then press enter to run Auto Test.	
NOTE: During the auto test the 3 phase amperages will be displayed for each component. Record amperages below in table 1A.)	
Once Auto is done the display should read Test Pass.	

***** Table 1A: Amperages for Auto Test						Initial = OK
Fan Right-Hand Low Speed (1 - 2.5)	L1		L2		L3	
Fan Right-Hand High Speed (3.5 - 6.5)	L1		L2		L3	
Fan Left-Hand (3.5 - 6.5)	L1		L2		L3	
Heat Step 1 (14 - 26)	L1		L2		L3	
Heat Step 2 (10.5 - 19.5)	L1		L2		L3	
Heat Step 3 (10.5 - 19.5)	L1		L2		L3	
Heat Step 4 (10.5 - 19.5)	L1		L2		L3	
Compressor Motor (4 - 12)	L1		L2		L3	
Condenser Motor (0.3 - 1.7)	L1		L2		L3	

***** Refrigeration System Check		Initial = OK
Run Program 0 and set to -10C		
Check Receiver for Refrigerant level and oil in compressor and box temp of 0°C		
Heat Step 1 (14 - 26)	Pressure:	
Heat Step 2 (10.5 - 19.5)	Pressure:	
Check to ensure probes are in range.		
Start manual defrost. Up to Commands option on Display, hit right arrow. Hit ENTER when display says Manual Defrost.		
Check to ensure Defrost function is operational and terminates at set temperature. (Factory set to 18°C)		



Download the Log File.	
Turn the Unit Off.	

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

Test Operator Signature	Date	Engineer / Designee Signature	Date