

**Klinge Corporation**  
PTI Form for TCR-110-ZII Single System Hazardous Area  
(This does not require the Control Box to be opened)

|                                                                                                                                    |                          |               |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|
| <b>RECORD DATE:</b>                                                                                                                | <b>TIME:</b>             | <b>JOB #:</b> |
| <b>UNIT MODEL NUMBER:</b>                                                                                                          | <b>CONTAINER NUMBER:</b> |               |
| <b>UNIT SERIAL NUMBER:</b>                                                                                                         | <b>LOCATION:</b>         |               |
| <b>CONTROL BOX SERIAL NUMBER:</b>                                                                                                  | <b>TECHNICIAN NAME:</b>  |               |
| <b>NOTE: AT ANY POINT IN THE PROCEDURE, SHOULD THERE BE A FAILURE OF THE UNIT TO OPERATE PROPERLY, PLEASE REFER TO THE MANUAL.</b> |                          |               |

| <b>General Inspection:</b>                                                                                                                                                                             | <b>Check if OK</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Check the unit and control box that the hold-down bolts as well as pipe connections are not loose.                                                                                                     |                    |
| Visually inspect the unit and control box for physical damage. Remove covers or internal viewing.                                                                                                      |                    |
| Inspect power cable and component cables for signs of damage.                                                                                                                                          |                    |
| Check condenser coil for cleanliness and clean if required.                                                                                                                                            |                    |
| Check for signs of glycol and refrigerant leaks and address as needed.                                                                                                                                 |                    |
| Check the glycol sight glass (PVC inlet hose) at the unit to ensure that the glycol can be easily seen. If the tubes are cloudy or not able to easily see through the tube should be replaced.         |                    |
| For Non-Pressurized systems, check the glycol level in the expansion reservoir, it should be 1/2 - 3/4 full at ambient temperature. For Pressurized systems refer to manual for glycol level checking. |                    |

| <b>Operational Check:</b>                                                                                                                                                                                                                               |        | <b>Check if OK</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|
| Connect Main power plug to power source.                                                                                                                                                                                                                |        |                    |
| Measure and record voltage and frequency of power source.                                                                                                                                                                                               | Volts: | Hertz:             |
| Start the Refrigeration Unit and perform a Function Tester as per the manual instructions.                                                                                                                                                              |        |                    |
| Confirm function test completed properly without error and unit continues to normal operation.                                                                                                                                                          |        |                    |
| Set the set point 5 degrees colder than current tank temperature.                                                                                                                                                                                       |        |                    |
| Record current Cargo Temperature                                                                                                                                                                                                                        |        |                    |
| Record current Glycol Temperature                                                                                                                                                                                                                       |        |                    |
| Check the refrigerant level in the coil receiver sight glass, it should be between the upper and lower sight glasses.                                                                                                                                   |        |                    |
| Check both of the moisture indicators on the coil receiver for "Dry" indication (Green in color).                                                                                                                                                       |        |                    |
| Check the flow in the glycol sight glass at the pump inlet for bubbles. If excessive bubbles are present vent the system of air or add additional glycol.                                                                                               |        |                    |
| Check the current Cargo Temperature and Glycol Temperature against the previously recorded temperatures to ensure proper cooling. Please note that since the tank is empty or has a large product mass the Cargo Temperature may not have reduced much. |        |                    |
| Turn off the system and secure the power cable and refasten any covers that have been removed.                                                                                                                                                          |        |                    |
| If the system is an ATEX System, ensure that the Control Box Bolts are torqued to the proper setting as per the Operations Manual.                                                                                                                      |        |                    |
| Check that all cable glands are tight.                                                                                                                                                                                                                  |        |                    |

**NOTES:** (Additional pages should be used for notes if required)