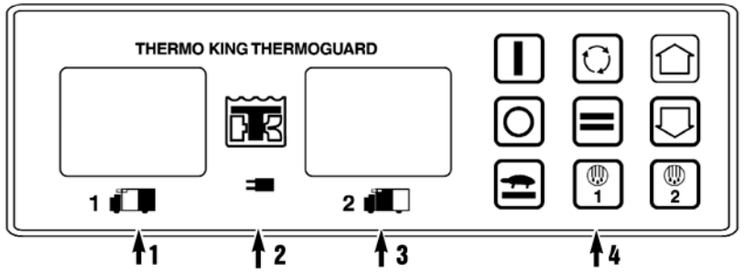
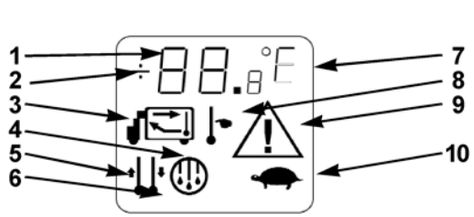
Simple Controls

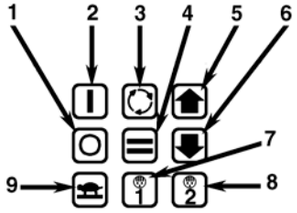
Multi-Temp In-Cab Controller



Multi-Temperature In-Cab Controller

1. Zone 1 Thermostat
2. Electric Standby LED
3. Zone 2 Thermostat
4. Keypad





Display Screen Symbols

1. Temperature Display
When a temperature symbol is displayed:
- Large numbers indicate the temperature in whole degrees.
- A decimal point and half-size number indicate temperature in tenths of a degree.

2. Minus Sign
This symbol indicates the temperature being displayed is below zero.

3. Return Air Symbol
This symbol indicates the return air temperature is being displayed. Return Air: Arrow Pointing from Thermometer to Unit.

4. Defrost Mode Unit is defrosting.

5. Heat Mode Unit is heating.

6. Cool Mode Unit is cooling.

7. Celsius or Fahrenheit Symbol
This symbol indicates the temperature being displayed is in degrees Celsius or Fahrenheit.

8. Setpoint Symbol
This symbol indicates the setpoint temperature is being displayed.

9. Alarm Symbol
When this flashing symbol is displayed on the screen, an alarm (fault) condition has been detected by the controller.

10. Whisper Mode (Low Speed)
This symbol indicates the low speed operation has been selected. Both units are prevented from running in high speed.

Keypad Descriptions

1. Off Key
This key is used to turn off the controller and stop the engine or standby motor.

2. On Key
This key is used to turn on the controller. Once the controller is on, this key is used to toggle (turn on and off) the remote unit.

3. Select Key
This key is used to select the various displays which can appear on the screens.

4. Enter Key
This key is used to enter new information into the controller.

5. Up Key
When the setpoint symbol is on a screen, this key is used to increase the setpoint temperature.

6. Down Key
When the setpoint symbol is on a screen, this key is used to decrease the setpoint temperature.

7. Zone 1 Manual Defrost Key
This key is used to manually start the defrost cycle of Zone 1.

8. Zone 2 Manual Defrost Key
This key is used to manually start the defrost cycle of Zone 2.

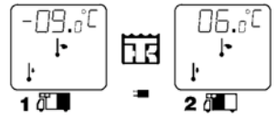
9. Whisper Key
This key is used to lock-out high speed operation in both units to maintain low speed (low noise) operation.

Simple to Set

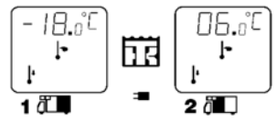
Entering Setpoints

Zone 1:

1. Press and release SELECT key until the setpoint symbol appears in both displays.

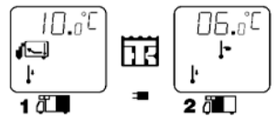


2. Press UP or DOWN key until desired setpoint appears in Zone 1 display. Press ENTER key to place new Zone 1 setpoint in controller memory. Screen then returns to standard display.

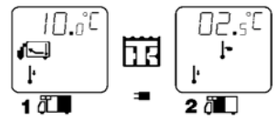


Zone 2:

3. Press SELECT key until setpoint symbol appears on Zone 2 display only.



4. Press UP or DOWN key until desired setpoint appears on Zone 2 display. Press ENTER key to place new Zone 2 setpoint in controller memory. Screen then returns to standard display.



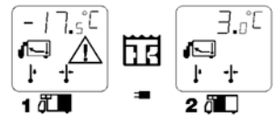
Check your Operating Manual for detailed instructions.

Simple to Access

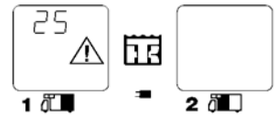
Alarm Codes

Displaying and Clearing Alarm Codes on Multi-Temperature In-Cab Controller

1. When Alarm symbol appears on display, press and release SELECT key until alarm code appears.

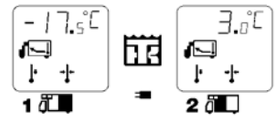


2. Record the alarm code(s) and make repairs as required.



See complete list of Alarm Codes below.

3. To clear the alarm code(s), press the ENTER key while the alarm code is showing. The screen returns to the standard display.



Alarm Codes

The following alarms codes are used:

03 Zone 1 Return Air Sensor Failure: The return air sensor has failed or is disconnected.

3A Zone 2 Return Air Sensor Failure: The return air sensor has failed or is disconnected.

14 Zone 1 Defrost Circuit Failure: The Zone 1 evaporator is still in defrost after end of the defrost time limit, indicating a defrost circuit failure (No. 11 circuit).

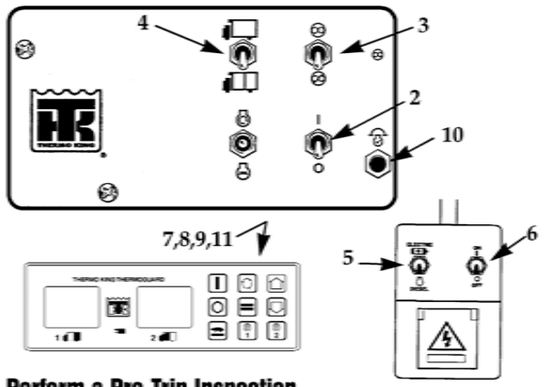
47 Zone 2 Defrost Circuit Failure: The Zone 2 evaporator is still in defrost after end of the defrost time limit, indicating a defrost circuit failure (No. R11 circuit).

25 Battery Charging Alternator Failure: Voltage output from the unit alternator is NOT being sensed.

88 Microprocessor Failure: The controller has failed and should be tested.

Simple to Start

Cycle-Sentry



Perform a Pre-Trip Inspection

1. Check the fuel, engine oil, coolant, battery, belts, electrical connections, structure, mounting gasket, coils, cargo box, damper, defrost drains and doors.

On the Control Panel:

2. Set the On/Off switch to the ON position.
3. Set the Cycle/Continuous switch to the Auto Start/Stop position.
4. Set the One Temp/Two Temp switch to TWO TEMP.

On Receptacle Box:

5. Set the Electric/Diesel switch to the DIESEL position (Down).
6. Set the On/Off switch to the ON position.

On the In-Cab Controller:

7. Turn on the Controller.
   a. The unit will automatically preheat and start.
8. Adjust the setpoint on the Controller for both compartments. See detailed instructions on setpoint panel.

If Unit fails to start:

If the engine fails to start within 15 to 20 seconds:

9. Set the In-cab Controller switch to OFF.
10. Check if the Engine Reset has tripped (popped out). Push the Engine Reset button if necessary.
11. Set the In-cab Controller switch to ON.
12. If the engine cannot be started, set the In-cab Controller switch to OFF. Determine and correct the cause for not starting. Push the Engine Reset button if necessary and repeat the starting procedure.

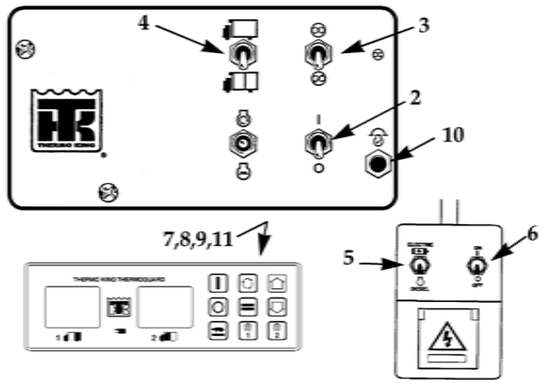
CAUTION: Never use starting fluid.

Complete Inspections:

13. Complete the After Start Inspection, Loading Procedure and Enroute Inspections as required.

Simple to Start

Continuous Run



Perform a Pre-Trip Inspection

1. Check the fuel, engine oil, coolant, battery, belts, electrical connections, structure, mounting gasket, coils, cargo box, damper, defrost drains and doors.

On the Control Panel:

2. Set the On/Off switch to the ON position.
3. Set the Cycle/Continuous switch to the Continuous position.
4. Set the One Temp/Two Temp switch to TWO TEMP.

On Receptacle Box:

5. Set the Electric/Diesel switch to the DIESEL position (Down).
6. Set the On/Off switch to the ON position.

On the In-Cab Controller:

7. Turn on the Controller.
   a. The unit will automatically preheat and start.
8. Adjust the setpoint on the Controller for both compartments. See detailed instructions on setpoint panel.

If Unit fails to start:

If the engine fails to start within 15 to 20 seconds:

9. Set the In-cab Controller switch to OFF.
10. Check if the Engine Reset has tripped (popped out). Push the Engine Reset button if necessary.
11. Set the In-cab Controller switch to ON.
12. If the engine cannot be started, set the In-cab Controller switch to OFF. Determine and correct the cause for not starting. Push the Engine Reset button if necessary and repeat the starting procedure.

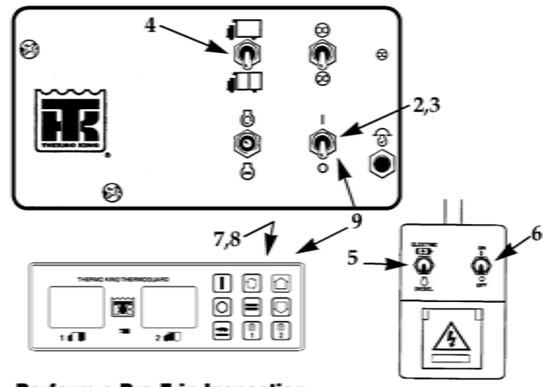
CAUTION: Never use starting fluid.

Complete Inspections:

13. Complete the After Start Inspection, Loading Procedure and Enroute Inspections as required.

Simple to Start

Electric Standby



Perform a Pre-Trip Inspection

1. Check the fuel, engine oil, coolant, battery, belts, electrical connections, structure, mounting gasket, coils, cargo box, damper, defrost drains and doors.
2. With all unit On/Off switches set to OFF and the high voltage power supply off, connect the power cable to the power supply and the Electric Power Receptacle on the Body Mounted Control Box.

On the Control Panel:

3. Set the On/Off switch to the ON position.
4. Set the One Temp/Two Temp switch to TWO TEMP.

On Receptacle Box:

5. Set the Electric/Diesel switch to the ELECTRIC position (Up).
6. Set the On/Off switch to the ON position.

On the In-Cab Controller:

7. Turn on the Controller.
   a. The unit will automatically preheat and start.
8. Adjust the setpoint on the Controller for both compartments. See detailed instructions on setpoint panel.

If Unit fails to start:

If cooling or heating is required by either controller and the electric motor fails to start:

9. Set all On/OFF switches to OFF.
10. Determine and correct the cause for not starting.
11. Check the Motor Reset button inside the engine compartment to be sure that the overload relay has not been tripped. Push the Motor Reset button if necessary and repeat the starting procedure.

Complete Inspections:

12. Complete the After Start Inspection, Loading Procedure and Enroute Inspections as required.

THERMO KING

Simple to Run

TLE Multi-Temp Truck Systems (RD-TLE/MD-TLE)

- In-Cab Controller Descriptions
- Enter Setpoints
- Access Alarm Codes
- Start - Cycle Sentry
- Start - Continuous Run
- Start - Electric Standby