# Simple to Start and Stop:
One or Multiple Zones
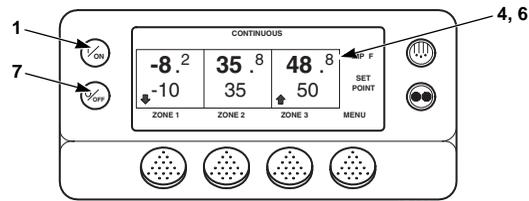
1. To turn the unit on, press the On key.
2. The display briefly shows a Thermo King Logo as the display initializes.
3. The "Configuring System" Screen briefly appears while communications are established and the unit prepares for operation.
4. The Standard Display showing box temperatures and setpoints briefly appears.
5. The "Diesel Engine Starting" Screen appears as the engine preheats and starts. On Model 50 units, the electric standby run screen will appear instead if the unit is connected to standby power.
6. The Standard Display showing box temperatures and setpoints reappears when the unit is running.
7. To turn the unit off, press the Off key. The unit will shut down.

To turn a Zone on or off:

Zone 1 will always be turned on any time the unit is turned on. Zone 2 and Zone 3 (if present) can be turned on and off as desired. (The state of each zone is retained when the unit is turned off and on.)

To turn Zone 2 or Zone 3 on or off complete the following steps.

1. Return to the Standard Display. If the Temperature Watch display is showing, press any key to return to the Standard Display.
2. Press the Zone key under the desired zone.
3. The setpoint display appears. If the zone is turned on, the third key will be labeled Turn Zone Off. If the zone is turned off, the third key will be labeled Turn Zone On.
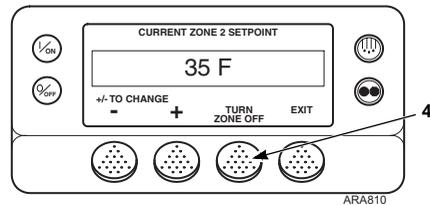

4. Press the Turn Zone Off key to turn the zone off.
5. The display briefly shows PROGRAMMING ZONE ON/OFF - PLEASE WAIT.
6. The display then confirms the new Zone setting for several seconds.
7. The display then returns to the Standard Display showing the Zone is off. The setpoint for the Zone has been replaced with OFF to indicate that the zone is now off.

NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Set:
CYCLE-SENTRY or Continuous Run
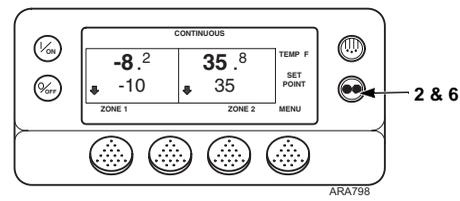
1. Return to the Standard Display.
2. Press the MODE SELECTION Key.
3. The "Programming Continuous Mode" or "Programming CYCLE-SENTRY Mode" screen briefly appears.
4. The "New System Mode CYCLE-SENTRY" or "New System Mode is Continuous" Screen briefly appears.
5. The Standard Display appears and the new mode is shown at the top of the display.
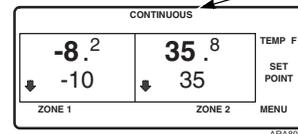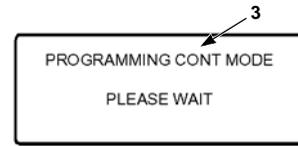
6. Press the Mode key again to change the unit back to the previous mode.

NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Set:
Setpoint Temperature
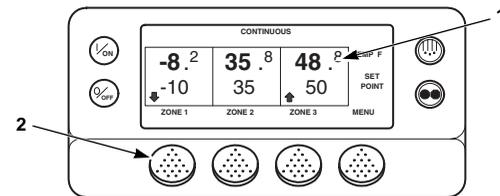
1. Begin at the Standard Display.
2. Press the Zone key for the desired zone (example: Zone 1).
3. The setpoint display will appear for the selected Zone.

3. Press the + or - Keys to change the setpoint reading.
4. Press the YES or NO key accordingly.
5. The "Programming New Setpoint" Screen will appear.
6. The "New Setpoint Will Be XX" Screen briefly appears.
7. The Standard Display appears with Zone setpoint changed to the new setpoint.
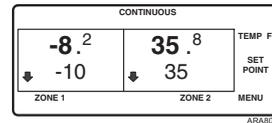
NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Check:
Gauges
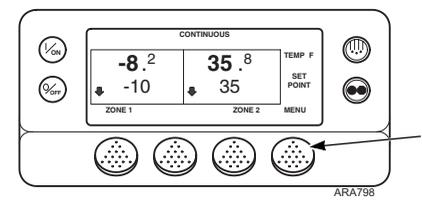
1. Return to the Standard Display.
2. Press the Menu key on the Standard Display.
3. Press the Next key until the Gauges Menu appears.
4. Press the Select key to enter the Gauges Menu.
5. Press the Back or Next keys to scroll through the following gauges: Coolant Temperature, Coolant Level, Amps, Battery Voltage, Engine RPM, Fuel Level Sensor, Discharge Pressure, Suction Pressure, I/O (Input/Output State) - Displays the current state of input/output devices.
6. Press the Lock key to display any Gauge Screen for an indefinite period. Press the key again to unlock the screen.
7. Press the Exit key to return to the Standard Display.
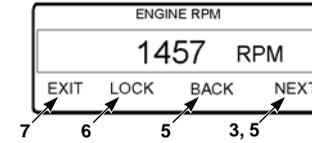
NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Defrost:
## Initiate Manual Defrost
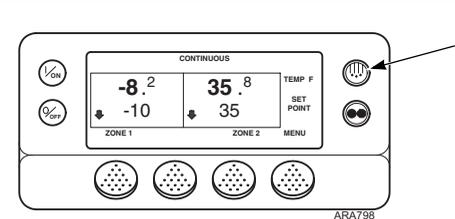
1. Return to the Standard Display.
2. Press the DEFROST Key.
3. The display will briefly show [DEFROST]. Then the Zone Select display will appear. Press the Zone key under the desired zone.

4. The "Defrost" Screen briefly appears.
5. The "Programming Defrost" Screen briefly appears.
6. The "Defrost Started" Screen briefly appears.
7. The display then shows the Defrost display. The bar indicator shows approximate percentage of time remaining to complete defrost cycle.
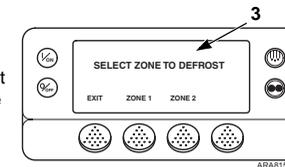
*NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.*

Simple to Check:
Sensors
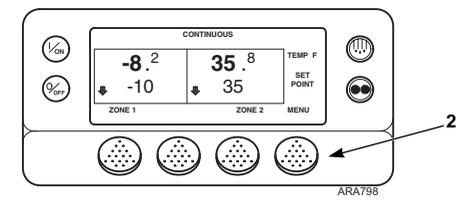
1. Return to the Standard Display.
2. Press the Menu key on the Standard Display.
3. Press the Next key until the Sensors Menu appears.
4. Press the Select key to enter the Sensors Menu.
5. Press the Back or Next keys to scroll through sensor screens.
6. Press the Lock key to display any sensor screen for an indefinite period. Press the key again to unlock the screen.
7. Press the Exit key to return to the Standard Display.
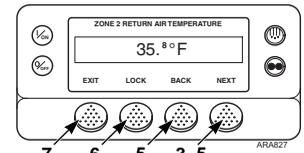
# Simple to Check:
Pretrip Test
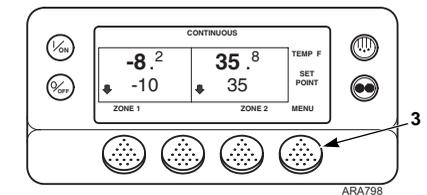
1. Clear all alarm codes.
2. Return to the Standard Display.
3. To initiate a Full Pretrip press the Menu key as soon as the Standard Display appears and before the unit starts. To initiate a Running Pretrip let the unit start before pressing the Menu key on the Standard Display. (To stop a Pretrip Test at any time, turn the unit off.)

4. Press the NEXT key until the Pretrip screen appears.
5. Press the SELECT key to start a Pretrip.
6. When all tests are complete, the results are reported as PASS, CHECK or FAIL. If the results are CHECK or FAIL, the accompanying alarm codes will direct the technician to the cause of the problem.
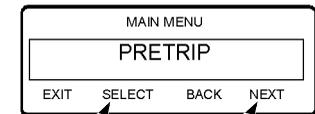
NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Check:
Hourmeters

ARA798
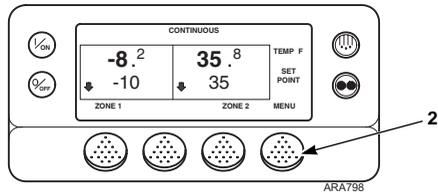
1. Return to the Standard Display.

2. Press the MENU key.

3. Press the Next key until the Hourmeters Menu appears.

4. Press the SELECT key to enter the Hourmeters Menu.

5. Press the Next and Back keys to view the hourmeter displays.

6. Press the Lock key to lock the hourmeter on the display. Press the key again to unlock the display.

7. Press the Exit key to return to the Standard Display.

ARA827

7   6   3 & 5   3 & 5
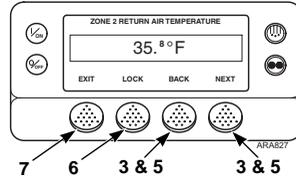
Simple to View and Determine:
Cause of Alarm and Clear Alarm Codes
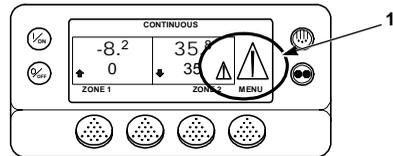
1. If an alarm occurs, the large Alarm Icon will appear. A small icon will be present for a zone-specific alarm (Zone 2 example shown).

2. Alarms are displayed and cleared using the Alarm Menu. Begin at the Standard Display.

3. Press the MENU key.

4. The Language Menu or Alarm Menu will appear. If the Language Menu appears, press the NEXT key to display the Alarm Menu.

5. Press the Select key. The Alarm Display will appear.

6. If no alarms are present, the "No Alarm" Screen is shown. Press the Exit key to return to the Standard Display.

7. If alarms are present, the quantity of alarms (if more than one) and the most recent alarm code number will be shown.

ARA794

ALARM 5

1 OF 2 ALARMS
AMBIENT TEMP SENSOR

EXIT   CLEAR   HELP   NEXT

ARA824

CLEARING ALARM 5

PLEASE WAIT

ARA846
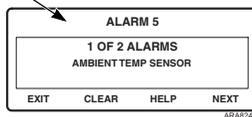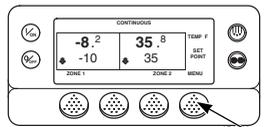
8. After the alarm situation is resolved press the Clear key to clear the alarm. To display the next alarm, press the Next key.

• If an alarm will not clear, it may still exist. If the alarm is not corrected, it will not clear. All alarms must be viewed before any of the alarms can be cleared.

• If an alarm cannot be cleared from the Main menu, the Clear key will not appear. These alarms must be cleared from Guarded Access Menus.

Alarm No.	Description
00	No Alarms Exist
02	Check Evaporator Coil Sensor (for specified zone)
03	Check Return Air Sensor (for specified zone)
04	Check Discharge Air Sensor (for specified zone)
05	Check Ambient Air Sensor
06	Check Coolant Temp Sensor
07	Check Engine RPM Sensor
09	High Evaporator Temperature
10	High Discharge Pressure
11	Unit Controlling on Alternate Sensor
12	Sensor or Digital Input Shutdown
13	Sensor Check
15	Check Glow Plugs or Intake Air Heater
17	Engine Failed to Crank
18	High Engine Coolant Temperature
19	Low Engine Oil Pressure
20	Engine Failed to Start
21	Cooling Cycle Check
22	Heating Cycle Check
23	Cooling Cycle Fault
24	Heating Cycle Fault
25	Alternator Check
26	Check Refrigeration Capacity
28	Pretrip or Self Check Abort
29	Check Defrost Damper Circuit
30	Defrost Damper Stuck
31	Check Oil Pressure Switch
32	Refrigeration Capacity Low
33	Check Engine RPM
35	Check Run Relay Circuit
36	Electric Motor Failed to Run
37	Check Engine Coolant Level
38	Electric Phase Reversed
39	Check Water Valve Circuit
40	Check High Speed Circuit
41	Check Engine Coolant Temperature
42	Unit Forced to Low Speed
44	Check Fuel System
45	Check Hot Gas or Hot Gas Bypass Circuit
46	Check Air Flow
48	Check Belts or Clutch
52	Check Heat Circuit
54	Test Mode Timeout
61	Low Battery Voltage
62	Ammeter Out of Calibration
63	Engine Stopped
64	Pretrip Reminder
65	Abnormal Temperature Differential
66	Low Engine Oil Level
67	Check Liquid Line Solenoid Circuit
68	Internal Controller Fault Code
70	Hourmeter Failure
74	Controller Reset to Defaults
77	Controller EEPROM Checksum Failure
79	Internal Data Log Overflow
84	Restart Null
85	Forced Unit Operation
86	Check Discharge Pressure Sensor
87	Check Suction Pressure Sensor
90	Electric Overload
91	Check Electric Ready Input
92	Sensor Grades Not Set
93	Low Compressor Suction Pressure
96	Low Fuel Level
98	Check Fuel Level Sensor
105	Check Receiver Tank Press Sol Circuit
106	Check Purge Valve Circuit
107	Check Condenser Inlet Sol Circuit
108	Door Open Timeout
110	Check Suction Line Solenoid Circuit
111	Unit Not Configured Correctly
112	Check Remote Fans
113	Check Electric Heat Circuit
114	Multiple Alarms – Can Not Run
117	Auto Switch from Diesel to Electric
118	Auto Switch from Electric to Diesel
120	Check Alternator Excite Circuit
121	Check Liquid Injection Circuit
122	Check Diesel/Electric Circuit
127	Setpoint Not Entered
128	Engine Run Time Maintenance Reminder #1
129	Engine Run Time Maintenance Reminder #2
130	Electric Run Time Maintenance Reminder #1
131	Electric Run Time Maintenance Reminder #2
132	Total Unit Run Time Reminder #1
133	Total Unit Run Time Reminder #2
134	Controller Power On Hours
136	Check Spare Digital Outputs
137	Check Damper Motor Heater Output
141	Autoswitch Diesel to Electric Disabled
143	Check Drain Hose Heater Output
144	Loss of CAN Communication
145	Loss of 8X Input
146	ware Version Mismatch
147	Check Multi-Temp Fan Speed Control Output
148	Autoswitch Electric to Diesel Disabled
153	Expansion Module Flash Load Failure

*NOTE: For additional information regarding the alarm shown on the display press the Help key. A help message will appear. For detailed information, see the appropriate unit operating manual.*

SR-2 MT
Smart Reefer 2
Microprocessor

ARA794
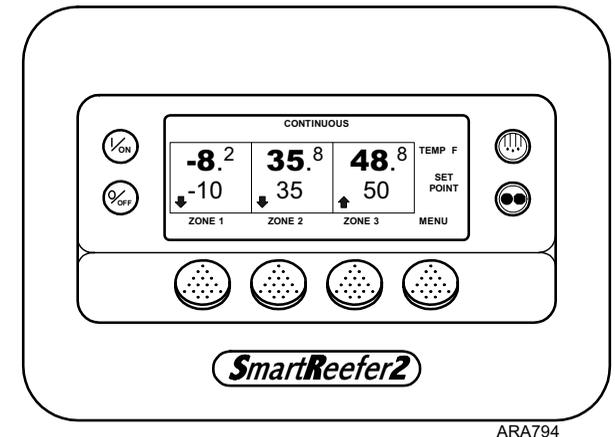
Driver Guide to Simple Operation

THERMO KING