

# THERMO KING TRUCK & TRAILER UNIT ALARM CODES

THIS DOCUMENT SHOWS ALL CURRENT ALARM CODES FOR THERMO KING TRUCK AND TRAILER UNITS.

NOT ALL CODES ARE POSSIBLE ON ANY INDIVIDUAL UNIT.

IF THE ALARM APPLIES TO A MULTI-TEMP ZONE, THAT ZONE WILL BE IDENTIFIED.

BE SURE TO RECORD ALL ALARMS THAT OCCUR. THEY ARE VALUABLE TO THE SERVICE TECHNICIAN.

ALARMS MARKED WITH AN ASTERISK (\*) MAY EXIST WITH ALARM CODE 84. THESE ALARMS MAY CLEAR AUTOMATICALLY.

## COLOR CODE DEFINITIONS

**OK TO RUN**

**CHECK AS SPECIFIED**

**TAKE IMMEDIATE ACTION**

THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.

Num	Description	Operator Action
00	No Alarms Exist	No action required.
01	Microprocessor Power Up Reset	No action required.
02	Check Evaporator Coil Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
03	Check Return Air Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
04	Check Discharge Air Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
05	Check Ambient Temp Sensor	Report this alarm at the end of the day.
06	Check Coolant Temp Sensor	Report this alarm at the end of the day.
07	Check Engine RPM Sensor	Report this alarm at the end of the day.
08	Unit Running on Coil Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
09*	High Evaporator Temperature	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
10*	High Discharge Pressure (or Temperature)	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
11	Unit Controlling on Alternate Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
12	Sensor or Digital Input Shutdown	The unit (or zone) is no longer able to operate and has been shut down. Repair immediately.
13	Sensor Check	Manually monitor load temperature. Report this alarm at the end of the day.
14	Defrost Terminate by Time	Report this alarm at the end of the day.
15	Check Glow Plugs or Intake Air Heater	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
16	Manual Start Not Completed	Report this alarm at the end of the day.
17*	Engine Failed to Crank	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
18*	High Engine Coolant Temperature	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
19*	Low Engine Oil Pressure	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
20*	Engine (Vapor Motor CR) Failed to Start	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
21*	Cooling Cycle Check	Manually monitor load temperature. Report this alarm at the end of the day.
22*	Heating Cycle Check	Manually monitor load temperature. Report this alarm at the end of the day.
23*	Cooling Cycle Fault	The unit (or zone) is no longer able to operate and has been shut down. Repair immediately.
24*	Heating Cycle Fault	The unit (or zone) is no longer able to operate and has been shut down. Repair immediately.
25	Alternator Check	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
26*	Check Refrigeration Capacity	Manually monitor load temperature. Report this alarm at the end of the day.
27*	Vapor Motor RPM High (CR)	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
28	Pretrip or Self Check Abort	Report this alarm at the end of the day.
29	Defrost Damper Circuit Check	Manually monitor load temperature. Report this alarm at the end of the day.
30	Defrost Damper Stuck Closed	The unit is no longer able to operate and has been shut down. Repair immediately.

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Num	Description	Operator Action
31	Check Oil Pressure Switch	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
32	Refrigeration Capacity Low	The unit (or zone) is no longer able to operate and has been shut down. Repair immediately.
33	Check Engine RPM	Report this alarm at the end of the day.
34	Check Modulation Circuit	Manually monitor load temperature. Report this alarm at the end of the day.
35	Check Run Relay Circuit	If the unit shuts down on this alarm code repair immediately.
36*	Electric Motor Failed to Run	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
37	Check Engine Coolant Level	Report this alarm at the end of the day.
38	Electric Phase Reversed	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
39	Check Water Valve Circuit	Manually monitor load temperature. Report this alarm at the end of the day.
40	Check High Speed Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
41	Check Engine Coolant Temp	Report this alarm at the end of the day.
42	Unit Forced to Low Speed	Report this alarm at the end of the day.
43	Unit Forced to Low Speed Modulation	Report this alarm at the end of the day.
44	Check Fuel System	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
45	Check Hot Gas or Hot Gas Bypass Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
46	Check Air Flow	Manually monitor load temperature. Report this alarm at the end of the day.
47	Remote Sensor Shutdown	The unit (or zone) is no longer able to operate and has been shut down. Repair immediately.
48	Check Belts or Clutch	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
49	Reserved for CR	
50	Reset Clock	Report this alarm at the end of the day.
51	Check Shutdown Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
52	Check Heat Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
53	Check Economizer Valve Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
54	Test Mode Timeout	Clear this alarm and restart the unit.
55	Check Engine Speeds	Report this alarm at the end of the day.
56	Check Evaporator Fan Low Speed	Report this alarm at the end of the day.
57	Check Evaporator Fan High Speed	Report this alarm at the end of the day.
58	Check Condenser Fan Low Speed	Report this alarm at the end of the day.
59	Check Condenser Fan High Speed	Report this alarm at the end of the day.
60	Check Boost Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
61	Low Battery Voltage	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
62	Ammeter Out of Calibration	If the unit shuts down on this alarm code repair immediately.
63*	Engine or Vapor Motor Stopped	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
64	Pretrip Reminder	Report this alarm at the end of the day.
65	Abnormal Temperature Differential	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
66	Low Engine Oil Level	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
67	Check Liquid Line Solenoid Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
68	Internal Controller Fault Code	Report this alarm at the end of the day.
69	Check Remagnetization Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.

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Num	Description	Operator Action
70	Hourmeter Failure	Report this alarm at the end of the day.
71	Hourmeter 4 Exceeds Set Time Limit	Report this alarm at the end of the day.
72	Hourmeter 5 Exceeds Set Time Limit	Report this alarm at the end of the day.
73	Hourmeter 6 Exceeds Set Time Limit	Report this alarm at the end of the day.
74	Controller Reset to Defaults	Report this alarm at the end of the day.
75	Controller RAM Failure	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
76	Controller EPROM Failure	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
77	Controller EPROM Checksum Failure	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
78	Data Log EPROM Failure	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
79	Internal Data Logger Overflow	Report this alarm at the end of the day.
80	Check Compressor Temp Sensor	Report this alarm at the end of the day.
81	High Compressor Temp	Report this alarm at the end of the day.
82	High Compressor Temp Shutdown	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
83	Low Engine Coolant Temp	Manually monitor load temperature. Report this alarm at the end of the day.
84	Restart Null	Report this alarm at the end of the day.
85	Forced Unit Operation	Report this alarm at the end of the day.
86	Check Discharge Pressure Sensor	Report this alarm at the end of the day.
87	Check Suction Pressure Sensor	Report this alarm at the end of the day.
88	Reserved for CR	
89	Check Electronic Throttling Valve Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
90	Electric Overload	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
91	Check Electric Ready Input	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
92	Sensor Grades Not Set	Report this alarm at the end of the day.
93	Low Compressor Suction Pressure	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
94	Check Loader #1 Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
95	Check Loader #2 Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
96	Low Fuel Level	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
97	Failed Remote Return Air Sensor (CR)	Report this alarm at the end of the day.
98	Check Fuel Level Sensor	Report this alarm at the end of the day.
99	High Compressor Pressure Ratio	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
100*	Heater Fan Failure (CR)	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
101	Controlling on Evap Coil Outlet Temp (CR)	Manually monitor load temperature. Report this alarm at the end of the day. (WAS 94)
102*	Low Evaporator Coil Temperature (CR)	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
103	Low Heater Fuel Level (CR)	Manually monitor load temperature. Report this alarm at the end of the day.
104	Check Remote Fan Speed	Manually monitor load temperature. Report this alarm at the end of the day.
105	Check Receiver Tank Press Sol Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
106	Check Purge Valve Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
107	Check Condenser Inlet Sol Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
108	Door Open Timeout	Close doors. Report this alarm at the end of the day.

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Num	Description	Operator Action
109	Check High Discharge Pressure Sensor	Replaced by Alarm Code 86
110	Check Suction Line Sol Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
111	Unit Not Configured Correctly	Report this alarm at the end of the day.
112	Check Remote Fans	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
113	Check Electric Heat Circuit	Manually monitor load temperature. Report this alarm at the end of the day.
114	Multiple Alarms - Can Not Run	The unit (or zone) is no longer able to operate and has been shut down. Repair immediately.
115	Check High Pressure Cut Out Switch	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
116	Check High Pressure Cut In Switch	Report this alarm at the end of the day.
117	Auto Switch from Diesel to Electric	Normal operation – does not affect performance.
118	Auto Switch from Electric to Diesel	Normal operation – does not affect performance.
119	Reserved for CR	
120	Check Alternator Excite Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
121	Check PMW Liquid Injection Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
122	Check Diesel/Electric Circuit	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
123	Check Evap Coil Inlet Temp Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
124	Check Evap Coil Outlet Temp Sensor	Report this alarm at the end of the day.
125	Check Tank Level Sensor	If the unit shuts down on this alarm code repair immediately. Otherwise, report this alarm at the end of the day.
126	Check Back Pressure Regulator	Manually monitor load temperature. Report this alarm at the end of the day.
127	Setpoint Not Entered	Be sure the setpoint is adjusted to the required temperature.
128	Engine Run Time Maint Reminder #1	Report this alarm at the end of the day.
129	Engine Run Time Maint Reminder #2	Report this alarm at the end of the day.
130	Electric Run Time Maint Reminder #1	Report this alarm at the end of the day.
131	Electric Run Time Maint Reminder #2	Report this alarm at the end of the day.
132	Total Unit Run Time Maint Reminder #1	Report this alarm at the end of the day.
133	Total Unit Run Time Maint Reminder #2	Report this alarm at the end of the day.
134	Controller Power On Hours	Report this alarm at the end of the day.
135	Check Spare Digital Inputs	Report this alarm at the end of the day.
136	Check Spare Digital Outputs	Report this alarm at the end of the day.
203	Check Redundant Return Air Sensor	Manually monitor load temperature. Report this alarm at the end of the day.
204	Check Redundant Discharge Air Sensor	Manually monitor load temperature. Report this alarm at the end of the day.

**Revision History**

Rev 5            06 Oct 2003            Add Code 65