THERMO KING

Truck, Trailer, CryoTech and DAS alarm codes

This document shows all current truck, trailer, CryoTech and DAS alarm codes. Not all codes are possible on all units.

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.

Color code definitions

OK TO RUN	CHECK AS SPECIFIED	TAKE IMMEDIATE ACTION

These are suggestions only. Always consult your company for final decisions.

SR-3, TSR, TSR-III Controller Alarms

	DESCRIPTION	OPERATOR ACTION
00	No Alarms Exist	No action required.
02	Check Evaporator Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
03	Check (Control) Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
04	Check (Control) Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
05	Check Ambient Temp Sensor	Report alarm at end of day.
06	Check Coolant Temp Sensor	Report alarm at end of day.
07	Check Engine RPM Sensor	Report alarm at end of day.
08	Unit Running on Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
09	High Evaporator Temperature (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
10	High Discharge Pressure (or Temperature)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
11	Unit or Zone Controlling on Alternate Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
12	Sensor or Digital Input Shutdown (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
13	Sensor Check (Zone)	Manually monitor temperature. Report alarm at end of day.
14	Defrost Terminated by Time	Report alarm at end of day.
15	Check Glow Plugs or Intake Air Heater	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
16	Manual Start Not Completed	Report alarm at end of day.
17	Engine Failed to Crank	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
18	High Engine Coolant Temperature	If unit is shut down repair immediately. Otherwise, report alarm at end of day.

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19	Low Engine Oil Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
20	Engine (Vapor Motor CryoTech) Failed to Start	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
21	Cooling Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
22	Heating Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
23	Cooling Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
24	Heating Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
25	Alternator Check	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
26	Check Refrigeration Capacity (Zone)	Manually monitor temperature. Report alarm at end of day.
27	Vapor Motor RPM High (CryoTech)	Unit cannot operate and is shut down. Repair immediately.
28	Pretrip or Self Check Abort	Report alarm at end of day.
29	Defrost Damper Circuit Check (Zone)	Manually monitor temperature. Report alarm at end of day.
30	Defrost Damper Stuck Closed (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
31	Check Oil Pressure Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
32	Refrigeration Capacity Low (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
33	Check Engine RPM	Report alarm at end of day.
34	Check Modulation Circuit	Manually monitor temperature. Report alarm at end of day.
35	Check Run Relay Circuit	Unit cannot operate and is shut down. Repair immediately.
36	Electric Motor Failed to Run	Unit cannot operate and is shut down. Repair immediately. Switch to Diesel Mode
37	Check Engine Coolant Level	Report alarm at end of day.
38	Electric Phase Reversed	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
39	Check Water Valve Circuit	Manually monitor temperature. Report alarm at end of day.
40	Check High Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
41	Check Engine Coolant Temp	Report alarm at end of day.
42	Unit Forced to Low Speed	Report alarm at end of day.
43	Unit Forced to Low Speed Modulation	Report alarm at end of day.
44	Check Fuel System	Add fuel as necessary. Otherwise, report alarm at end of day.
45	Check Hot Gas or Hot Gas Bypass Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
46	Check Air Flow (Zone)	Manually monitor temperature. Report alarm at end of day.
47	Remote Sensor Shutdown	Unit/zone cannot operate and is shut down. Repair immediately.
48	Check Belts or Clutch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
49	Check Spare Sensor 1	Report alarm at end of day.
50	Reset Clock	Report alarm at end of day.
51	Check Shutdown Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
52	Check Heat Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
53	Check Economizer Valve Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
54	Test Mode Timeout	Clear alarm and restart unit.
55	Check Engine Speeds	Report alarm at end of day.
56	Check Evaporator Fan Speed (Roadside - Left Side)	Report alarm at end of day.
57	Check Evaporator Fan Speed (Curbside - Right Side)	Report alarm at end of day.
58	Check Condenser Fan Speed (Roadside - Left Side)	Report alarm at end of day.
59	Check Condenser Fan Speed (Curbside - Right Side)	Report alarm at end of day.
61	Low Battery Voltage	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.

Color code definitions

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62	Ammeter Out of Calibration	Unit cannot operate and is shut down. Repair immediately
63	Engine or Vapor Motor Stopped	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
64	Pretrip Reminder	Report alarm at end of day.
65	Abnormal Temperature Differential (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
66	Low Engine Oil Level	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
67	Check Liquid Line Solenoid Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
68	Internal Controller Fault Code	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
70	Hourmeter Failure	Report alarm at end of day.
71	Hourmeter 4 Exceeds Set Time Limit	Report alarm at end of day.
72	Hourmeter 5 Exceeds Set Time Limit	Report alarm at end of day.
73	Hourmeter 6 Exceeds Set Time Limit	Report alarm at end of day.
74	Controller Reset to Defaults	Report alarm at end of day.
75	Controller RAM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
76	Controller EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
77	Controller EPROM Checksum Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
78	Data Log EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
79	Internal Data Logger Overflow	Report alarm at end of day.
80	Check Compressor Temp Sensor	Report alarm at end of day.
81	High Compressor Temp	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
82	High Compressor Temp Shutdown	Unit cannot operate and is shut down. Repair immediately.
83	Low Engine Coolant Temp	Report alarm at end of day.
84	Restart Null	Report alarm at end of day. Another code may appear and clear automatically.
85	Forced Unit Operation	Report alarm at end of day.
86	Check Discharge Pressure Sensor	Report alarm at end of day.
87	Check Suction Pressure Sensor	Report alarm at end of day.
88	Reserved for CryoTech	
89	Check Electronic Throttling Valve (ETV) Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
90	Electric Overload	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
91	Check Electric Ready Input	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
92	Sensor Grades Not Set (Zone)	Report alarm at end of day.
93	Low Compressor Suction Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
94	Check Loader #1 Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
95	Check Loader #2 Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
96	Low Fuel Level	Add fuel as required.
97	Failed Remote Return Air Sensor (CryoTech)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
98	Check Fuel Level Sensor	Report alarm at end of day.
99	High Compressor Pressure Ratio	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
100	Heater Fan Failure (CryoTech)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
101	Controlling on Evap Coil Outlet Temp (CryoTech)	Manually monitor temperature. Report alarm at end of day.
102	Low Evaporator Coil Temperature (CryoTech)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
103	Low Heater Fuel Level (CryoTech)	Manually monitor temperature. Report alarm at end of day.
104	Check Remote Fan Speed (Zone)	Manually monitor temperature. Report alarm at end of day.

Color code definitions

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105	Check Receiver Tank Press Sol Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
106	Check Purge Valve Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
107	Check Condenser Inlet Sol Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
108	Door Open Timeout (Zone)	Close doors. Report alarm at end of day.
109	Check High Discharge Pressure Sensor	Replaced by Alarm Code 86
110	Check Suction Line Sol Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
111	Unit Not Configured Correctly (Zone)	Report alarm at end of day.
112	Check Remote Fans (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
113	Check Electric Heat Circuit (Zone)	Manually monitor temperature. Report alarm at end of day.
114	Multiple Alarms - Can Not Run (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
115	Check High Pressure Cut Out Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
116	Check High Pressure Cut In Switch	Report alarm at end of 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 CryoTech	
120	Check Alternator Excite Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
121	Check PMW Liquid Injection Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
122	Check Diesel/Electric Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
123	Check Evap Coil Inlet Temp Sensor (CryoTech)	Manually monitor temperature. Report alarm at end of day.
124	Check Evap Coil Outlet Temp Sensor (CryoTech)	Report alarm at end of day.
125	Check Tank Level Sensor (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
126	Check Back Pressure Regulator (CryoTech)	Manually monitor load temperature. Report this alarm at the end of the day.
127	Setpoint Not Entered (Zone)	Be sure setpoint is adjusted to required temperature.
128	Engine Run Time Maint Reminder #1	Report alarm at end of day.
129	Engine Run Time Maint Reminder #2	Report alarm at end of day.
130	Electric Run Time Maint Reminder #1	Report alarm at end of day.
131	Electric Run Time Maint Reminder #2	Report alarm at end of day.
132	Total Unit Run Time Maint Reminder #1	Report alarm at end of day.
133	Total Unit Run Time Maint Reminder #2	Report alarm at end of day.
134	Controller Power On Hours	Report alarm at end of day.
135	Check Spare Digital Inputs	Report alarm at end of day.
136	Check Spare Digital Outputs	Report alarm at end of day.
137	Check Damper Motor Heater Output	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
138	Log DAS Real Time Clock Battery Failure (DAS)	Report alarm at end of day.
139	Abort Evacuation Mode	Report alarm at end of day.
140	Not currently used	
141	Auto Switch Diesel to Electric Disabled	Report alarm at end of day.
142	Check Thermax Valve	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
143	Check Remote Drain Hose Heater Output (Zone)	Report alarm at end of day.
144	Lost CAN Communications to Expansion Module	Unit cannot operate and is shut down. Repair immediately.
145	Lost Controller ON Feedback Signal	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
146	Software Version Mismatch	Report alarm at end of day.

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	147	Check Multi-Temp Fan Speed Control Output (Zone)	Manually monitor load temperature. Report this alarm at the end of the day.
	148	Auto Switch Electric to Diesel Disabled	Report alarm at end of day.
	149	Alarm Not Identified	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
	150	Sensor Out of Range Low (DAS and HMI) (Zone)	Report alarm at end of day.
	151	Sensor Out of Range High (DAS and HMI) (Zone)	Report alarm at end of day.
	152	DAS Failed Sensor (DAS)	Report alarm at end of day.
	153	Expansion Module Flash Load Failure	Report alarm at end of day.
	154	Low Suction Pressure Switch Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	155	Lost CAN Communications to HMI	Unit cannot operate and is shut down. Repair immediately.
	156	Check Suction/Liquid Heat Exchanger Bypass Valve	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	157	OptiSet Plus Profile Mismatch	Report alarm at end of day.
	158	Primary Software Failed to Load	Report alarm at end of day.
	159	Check Battery Condition	Report alarm at end of day.
	160	Lost CAN Communications to Radio Expansion Board	Report alarm at end of day.
	161	Log DAS Real Time Clock Invalid (DAS)	Report alarm at end of day.
	163	Emission Control Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	175	Check Electronic Expansion Valve (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	176	Check Evaporator Pressure Sensor (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	177	Check CO_2 Tank Pressure Sensor (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	178	Low CO_2 Fuel Level (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	180	TriPac Compressor Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
	188	Log DAS Microprocessor Fault (DAS)	Report alarm at end of day.
	203	Check Display Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
	204	Check Display Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
	216	Check DAS Digital Inputs (DAS)	Report alarm at end of day.
	233	REB Transitioning from Conservative to Full Null	Report alarm at end of day.
	234	Check Relative Humidity Sensor Circuit	Report alarm at end of day.
	235	High Engine Coolant Temperature Check	Report alarm at end of day.
	250	DAS Clock Time Reset (DAS)	Report alarm at end of day.
	251	Check Radio Expansion Board Configuration	Report alarm at end of day.
	252	Check Auto Fresh Air Exchange Circuit	Report alarm at end of day.
	253	Theft Deterrence	Report alarm at end of day.
	254	Check Auxilary Coolant Temp Sensor	Report alarm at end of day.
∧	264	Check Active Rectifier	"Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day."
∧	265	Check DCDC Converter	Report alarm at end of day.
∧	266	Electric Motor Failed To Start	"Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day."
∧	267	Electric Fan Not Rotating (Roadside - Left Side)	Report alarm at end of day.
∧	268	Electric Fan Not Rotating (Curbside - Right Side)	Report alarm at end of day.
∧	269	Loss of CAN Communication to Low Power Module	"Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day."

Color code definitions

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	Code	Description	Action
Λ	270	Loss of CAN Communication to High Power Module	"Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day."
Λ	271	Loss of CAN Communication to DCDC Converter	Report alarm at end of day.
Λ	272	Controller Failed To Initialize	"Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day."
Λ	273	Active Rectifier - DC Current	"Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day."
Λ	274	Active Rectifier - DC Voltage	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "
Λ	275	Active Rectifier - Heat Sink Temperature	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "
Λ	276	Active Rectifier - RPM Sensor	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "
Λ	277	Active Rectifier - Motor Temperature	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "
Λ	278	Active Rectifier - Microprocessor Fault	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "
Λ	279	Engine Break-In Complete	Report alarm at end of day.
Λ	280	Warm Load	"Check Load Temperature. This Alarm is indicative warm cargo loaded or high humidity in cargo holdReport alarm at end of day."
Λ	281	Check Fan Speed Circuit (Left Side)	Report alarm at end of day.
Λ	282	Check Fan Speed Circuit (Right Side)	Report alarm at end of day.
Λ	526	Generator Operational Limit (Output Current)	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "
Λ	555	Generator Loss Of Phase	" Alarm Type depending on conditions. If unit is shut down repair immediately. Otherwise, report alarm at end of day. "

Iconic A = A-Series

Alarm Code Descriptions DSR (Common Alarms for all DSR Controllers - Not all codes are possible on all units)

	DESCRIPTION	
Manual Start		
OL	**Electric Motor Overload (Electric standby models only)** - The electric motor overload relay has tripped due to excessive current draw.	If the problem persists when the unit is restarted, contact your Thermo King Dealer.
bAt	**Low Battery Voltage**	Check vehicle battery.
Auto Start		
HP	**High Pressure Alarm** - The system has detected excessively high discharge pressure.	If the problem persists when the unit is restarted, contact your Thermo King Dealer.
LP	**Low Pressure Alarm** - The system has detected excessively low suction pressure.	If the problem persists when the unit is restarted, contact your Thermo King Dealer.
PSE	**High Pressure Sensor Failure** - The high pressure sensor has become faulty or disconnected.	Contact your Thermo King Dealer.
dr1 dr2	**Motor controller communication error** - Doors are open, faulty door switches, or improper door switch configuration.	Contact your Thermo King Dealer.

Color code definitions

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Alarm Code Descriptions DSR (Common Alarms for all DSR Controllers - Not all codes are possible on all units)

tCO	**Control Module Overheating**	If the problem persists when the unit is restarted, contact your Thermo King Dealer.
SOF	**Software Failure**	Contact your Thermo King Dealer.
P1E	**Faulty Cargo Box Return Air Temperature Sensor** - Faulty or disconnected return air temperature sensor.	Contact your Thermo King Dealer.
P2E	**Remote Cargo Box Return Air Temperature Reading Error (open circuit or short-circuit)**	Contact your Thermo King Dealer.
C	**Communications Failure**	Contact your Thermo King Dealer.

DSR IV Controller Alarms Only

	DESCRIPTION	OPERATOR ACTION
H01	**DSR communication lost** - Communication lost to the other Electronic Control Module.	Contact your Thermo King Dealer.
H02	**HMI communication lost** - Communication lost to the HMI.	Contact your Thermo King Dealer.
H0A	**Low Power Mode Activation** - ignition key of the vehicle is disconnected and the unit is not connected to the shore power. Operation of the unit may be inhibited but remains operational.	Report Alarm at the end of the day.
H0B	**Sleep Mode Activation** - While the unit OFF, the vehicle battery voltage dropped below a threshold. Normal operation of the controller will resume as soon as the power is restored.	Report Alarm at the end of the day.
H0C	**Power Derating Shutdown** - Low Voltage Shutdown alarm - your battery voltage has dropped below a defined level. The shutdown alarm is automatically cleared once the voltage rises over this limit once more.	Report Alarm at the end of the day. Contact your Thermo King Dealer.
H10	**Internal flash erase error** - Internal, System reset needed	Report Alarm at the end of the day. Contact your Thermo King Dealer.
H12	**Default parameters in use** - This will typically happen after a new firmware version has been loaded.	If the problem persists when the unit is restarted, contact your Thermo King Dealer.
H15	**eMMC erase error** - An error occurred while loading parameters to the DSR IV Controller.	Internal, System reset needed, contact your Thermo King Dealer.
H16	**eMMC write error** - An error occurred while loading parameters to the DSR IV Controller or performing the datalogging process.	Internal, System reset needed, contact your Thermo King Dealer.
H17	**eMMC read error** - An error during powering-up when reading configuration parameters.	Internal, System reset needed, contact your Thermo King Dealer.
H18	**Flash Loading Failed** - An error occurred while loading firmware to the DSR IV Controller.	Internal, System reset needed, contact your Thermo King Dealer.
H1A	**Non-Compatible SW** - Indicates that one of the Electronic components contains an incorrect or out-of-date Software version.	Contact your Thermo King Dealer.

Color code definitions

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Compressor Drive Module Alarms

	DESCRIPTION	OPERATOR ACTION
H21	**Phase overcurrent** - Shutdown alarm	Contact your Thermo King Dealer.
H2A	**Overcurrent of DC/DC converter** - Shutdown alarm	Contact your Thermo King Dealer.
H22	**Input overvoltage** - Shutdown alarm	Contact your Thermo King Dealer.
H23	**Input undervoltage** - Consider let the engine run to allow the alternator to charge the vehicle battery.	Contact your Thermo King Dealer.
H24	**Motor Endstage temperature too high** - Shutdown alarm	Contact your Thermo King Dealer.
H25	**Motor controller communication error** - Critical, Motor controller alarm	Contact your Thermo King Dealer.
H26	**Compressor start-up failure** - Critical, Motor controller alarm	Contact your Thermo King Dealer.
H27	**Locked Rotor** - Critical, Motor controller alarm	Contact your Thermo King Dealer.
H28	**Phase Loss** - One of the phases carrying current to the CDM is disconnected	Contact your Thermo King Dealer.

Clearing Alarm Codes
The alarm condition in the unit must first be corrected. See important note below. After resolving the alarm condition, press and release the Select key to remove existing Alarm codes. The Standard Display will appear once the Alarm codes have been cleared.
To Clear Alarm Codes:
· Correct the cause of the alarm code.
· Press the Select key to remove the alarm code.
· If more than one alarm code is present, press the Select key to clear each alarm code individually.
Important: Continually clearing alarm codes without resolving the problem will result in damage to the unit and compressor.

THERMO KING

For further information
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