

E = EVENT F = FAULT S = SYSTEM MALFUNCTION

FURNACE SERVICE FAULTS/DATA

Code	Display	Fault	UI DISPLAY
12	E	Blower On After Power Up	BLOWER ON AFTER POWER UP
13	S	Limit Circuit Lockout	LIMIT LOCKOUT
14	S	Ignition Lockout	IGNITION LOCKOUT
15	S	Blower Motor Lockout	BLOWER LOCKOUT
21	S	Gas Heating Lockout	GAS HEAT LOCKOUT
22	S	Abnormal Flame-Proving Signal	FLAME SENSE ERROR
23	S	Pressure Switch Did Not Open	LPS OR HPS CLOSED, LPS OR MPS CLOSED (3-stage)
24	S	Secondary Voltage Fuse Open	24VAC FUSE OPEN
25	E	Model Selection Or Setup Error	INVALID MODEL
31	F	High-Heat Pressure Switch Or Relay Did Not Close Or Reopened	HPS OR RELAY OPEN MEDIUM PRESSURE SWITCH OPEN (3-stage)
32	F	Low-Heat Pressure Switch Did Not Close Or Reopened	LOW PRESSURE SWITCH OPEN
33	S	Limit Circuit Fault	LIMIT FAULT
34	F	Ignition Proving Failure	IGNITION FAULT
35	E	Gas Valve Fault	GAS VALVE FAULT
41	S,F	Blower Motor Fault (S in cooling, F in heating)	BLOWER MOTOR FAULT
42	F	Inducer Motor Fault (VS Inducers Only)	INDUCER FAULT
43	E	Low-Heat Pressure Switch Open While High-Heat Pressure Switch Closed	LPS OPEN HPS CLOSED LPS OPEN MPS CLOSED (3-stage)
45	S	Control Circuitry Lockout	CONTROL FAULT

FAN COIL SERVICE/DATA

Code	Display	Fault	UI DISPLAY
16	E	System Communication Fault	COMMUNICATION ERROR
25	E	Invalid Model/Motor Selection	INVALID MODEL
26	E	Invalid Heater Size	INVALID HEATER SIZE
27	E	Invalid Outdoor Unit Size	INVALID AC/HP SIZE
36	F	Heater output not sensed when energized	CONTROL FAULT, HEATER MAY NOT BE ON
37	S	Heater output sensed On when not energized	CONTROL FAULT, HEATER STUCK ON
41	S	Blower Motor Fault	BLOWER MOTOR FAULT
44	S	Motor Communication Fault	CANNOT COMMUNICATE WITH BLOWER
45	S	Control fault	CONTROL FAULT
46	E	Brown Out Condition	BROWN OUT ON 24V
53	F	Outdoor Air Temperature Sensor Fault	OUTDOOR AIR TEMP SENSOR FAULT

OUTDOOR UNIT (B-SERIES 2-SPEED) (PRE-2006 PLATFORM)

The fault code number will NOT be shown on the user interface service screens for B-series two speeds.

Refer to outdoor unit specification on how faults are set. The Display column indicates if the code is a Event (E), Fault (F) or System Malfunction (S) for display purposes.

Code	Display	Fault	UI DISPLAY
128	E	Low Pressure Switch	LOW PRESSURE SWITCH OPEN
129	E	High Pressure Switch	HIGH PRESSURE SWITCH OPEN
130	F	Outside Temp Sensor	OUTDOOR AIR TEMP SENSOR FAULT
131	F	Coil Temp Sensor	COIL TEMP SENSOR FAULT
132	E	Thermistor Range Error	TEMP SENSOR OUT OF RANGE
133	S	VC Voltage at Standby	CONTACTOR SHORTED
134	E	Low Capacity Thermal Cutout	THERMAL CUTOFF IN LOW STAGE
135	E	Hi Capacity Thermal Cutout	THERMAL CUTOFF IN HIGH STAGE
136	F	VC voltage at Startup	NO 240V AT COMPRESSOR
137	F	Low Capacity Compressor Lockout	THERMAL LOCKOUT IN LOW STAGE
138	S	Hi Capacity Compressor Lockout	THERMAL LOCKOUT IN HIGH STAGE

EVEREST OUTDOOR UNIT (2-SPEED) (2006 PLATFORM)

Refer to outdoor unit specification on how faults are set.

Code	Display	Fault	UI DISPLAY
25	F	Invalid Model	INVALID MODEL
45	S	Control Fault	CONTROL FAULT
46	E	Brown out	BROWNOUT
47	S	No 230v	NO 230V AT UNIT
32	E	Low Pressure Switch	LOW PRESSURE SWITCH OPEN
31	E	High Pressure Switch	HIGH PRESSURE SWITCH OPEN
53	F	Outside Temp Sensor	OUTDOOR AIR TEMP SENSOR FAULT
55	F	Coil Temp Sensor	COIL TEMP SENSOR FAULT
56	E	Thermistor Range Error	TEMP SENSOR OUT OF RANGE
73	S	Contactors shorted	CONTACTOR SHORTED
71	E	Low Capacity Thermal Cutout	THERMAL CUTOFF IN LOW STAGE
72	E	Hi Capacity Thermal Cutout	THERMAL CUTOFF IN HIGH STAGE
74	S	No high voltage (Copeland)	NO 230V AT COMPRESSOR
75	E	Low stage didn't start	LOW STAGE NO START
77	E	High speed didn't start	HIGH STAGE NO START
76	S	Low speed didn't start 3 times	LOW STAGE REPEAT NO START
78	S	High speed didn't start 3 times	HIGH STAGE REPEAT NO START
79	S	Run Capacitor Failed	RUN CAPACITOR FAILED
81	S	Low capacity thermal lockout	THERMAL LOCKOUT IN LOW STAGE 4 HOURS
82	S	Hi capacity thermal lockout	THERMAL LOCKOUT IN HIGH STAGE 4 HOURS
83	S	Low Capacity Compressor Lockout	LOW PRESSURE LOCKOUT 4 HOURS
84	S	Hi Capacity Compressor Lockout	HIGH PRESSURE LOCKOUT 4 HOURS
85	S	Low Contactor Open	LOW CONTACTOR OPEN
86	S	Low Contactor Shorted	LOW CONTACTOR SHORTED
87	S	High Contactor Open	HIGH CONTACTOR OPEN
88	S	High Contactor Shorted	HIGH CONTACTOR SHORTED
89	S	Start Capacitor/Relay Failed	START CAPACITOR/RELAY FAILED

EVEREST OUTDOOR UNIT (1-SPEED)

Code	Display	Fault	UI DISPLAY (Impeded in UI)
25		NOT USED	
31	E	High Pressure Switch	HIGH PRESSURE SWITCH OPEN
32	E	Low Pressure Switch	LOW PRESSURE SWITCH OPEN
45	S	Control Fault	CONTROL FAULT
46	E	Brown out (24V)	BROWNOUT
47		NOT USED	
53	F	Outside Temp Sensor	OUTDOOR AIR TEMP SENSOR FAULT
55	F	Coil Temp Sensor	COIL TEMP SENSOR FAULT
56	E	Thermistor Range Error	TEMP SENSOR OUT OF RANGE
71		NOT USED	
72	E	Thermal Cutout	THERMAL CUTOFF
73	S	Contactors Shorted	CONTACTOR SHORTED
74	S	Contactors Open	CONTACTOR OPEN
75		NOT USED	
76		NOT USED	
77		NOT USED	
78		NOT USED	
79	S	Run Capacitor Failed	RUN CAPACITOR FAILED
81		NOT USED	
82	S	thermal lockout	THERMAL LOCKOUT 4 HOURS
83	S	Low pressure Lockout	LOW PRESSURE LOCKOUT 4 HOURS
84	S	High pressure Lockout	HIGH PRESSURE LOCKOUT 4 HOURS

GREENSPEED & EXTREME HP

Code	Display	Fault	UI DISPLAY
16	E	Communication Loss	COMMUNICATION ERROR
25	E	Invalid Model	INVALID MODEL
31	E	High Pressure Switch	HIGH PRESSURE SWITCH OPEN
32	E	Low Pressure Switch Trip	LOW PRESSURE SWITCH OPEN TRIP
45	S	Control Fault (Circuit Board)	CONTROL FAULT
46	E	Brown Out	BROWNOUT
48	S	Loss Inverter Communications	LOSS INVERTER COMMUNICATIONS
49	E	230vac Dropout-Reset Event	230VAC DROPOUT
53	F	Outside Temperature Sensor	OUTDOOR AIR TEMP SENSOR FAULT
54	F	Suction Temperature Sensor Fault	SUCTION TEMP SENSOR FAULT
55	F	Coil Temperature Sensor	COIL TEMP SENSOR FAULT
56	E	Thermistor Range Error	TEMP SENSOR OUT OF RANGE
57	F	Suction Pressure Sensor Fault	SUCTION PRESSURE SENSOR FAULT
58	E	OAT-OST Thermistor Out of Range	TEMP SENSOR OUT OF RANGE
59	E	Compressor Scroll Temperature Out of Range	COMPRESSOR TEMP OUT OF RANGE

68	E	Compressor Sump Heating Active	COMPRESSOR SUMP HEATER ACTIVE
69	S	Inverter/Compressor Internal Fault	INVERTER INTERNAL FAULT
71	E	Compressor Motor Temperature Out of Range	COMPRESSOR MOTOR TEMP OUT OF RANGE
72	E	Suction Over Temperature	SUCTION OVER TEMP
75	E	Inverter Temperature Out of Range Event	INVERTER TEMP OUT OF RANGE
77	E	Inverter Over Current	INVERTER OVER CURRENT
79	E	Compressor No Pump Event	COMPRESSOR NO PUMP
82	S	Suction Over Temperature Lockout	SUCTION OVER TEMP LOCKOUT
83	S	Low Pressure Switch Lockout	LOW PRESSURE LOCKOUT
84	S	High Pressure Switch Lockout	HIGH PRESSURE LOCKOUT
85	S	Compressor Temperature Lockout	COMPRESSOR TEMP LOCKOUT
86	S	Compressor Temp Sensor Fault	COMPRESSOR TEMP SENSOR FAULT
88	S	Inverter Temp Lockout	INVERTER TEMP LOCKOUT
91	E	Inverter vcd -Out Over Voltage	INVERTER OVER VOLTAGE
92	E	Inverter vdc-Out Under Voltage	INVERTER UNDER VOLTAGE
93	E	230 VAC Under Voltage	230VAC UNDER VOLTAGE
94	E	230 VAC Over Voltage	230 VAC OVER VOLTAGE
95	S	High Current Lockout	HIGH CURRENT LOCKOUT
96	S	VDC Under Voltage Lockout	VDC UNDER VOLTAGE LOCKOUT
97	S	VDC over Voltage Lockout	VDC OVER VOLTAGE LOCKOUT
98	E	High Torque Event	HIGH TORQUE EVENT
99	S	High Torque Lockout	HIGH TORQUE LOCKOUTSystem

ACCESS MODULE SERVICE/DATA

Code	Display	Fault	UI DISPLAY
45	F	EEPROM memory error	SAM MEMORY ERROR
61	E	Radio out of range (no coverage for 5 minutes).	SAM RADIO OUT OF RANGE
62	E	Loss of comm with the radio: minutes	SAM LOSS OF COMM No communication with device for 2
63	F	Radio not registered with the local network	SAM RADIO NOT REGISTERED (unregistered for 5 minutes).
64	na	Aux sensor detect	AUX SENSOR ALERT
65	E	Ethernet network not detected	SAM ETHERNET NOT DETECTED
66	E	No communication with server	SAM COMM LOSS WITH SERVER

EXCALIBUR ZONING SERVICE/DATA

Code	Display	Fault	UI DISPLAY
24 Fuse		S	24 - ZONE BOARD FUSE OPEN
55 Zone X Sensor		F	55 - ZONE SENSOR
LAT/HPT Sensor		E	LAT/HPT SENSOR

USER INTERFACE FAULT DATA

Code	Display	Fault	UI DISPLAY
160	F	Onboard temp/humidity sensor error	TEMP/HUMIDITY SENSOR FAULT
161	E	Blower cutback from indoor unit (unzoned only)	EXCESS STATIC PRESSURE
	E	Blower cutback from indoor unit (zoned only)	EXCESS STATIC PRESSURE, STAGEDOWN
162	F	Remote Room Sensor failed	REMOTE SENSOR FAULT
170	F	Smart sensor zone 1 comm fault	SMART SENSOR ZONE1 COMMUNICATION FAULT
171	F	Smart sensor zone 2 comm fault	SMART SENSOR ZONE2 COMMUNICATION FAULT
172	F	Smart sensor zone 3 comm fault	SMART SENSOR ZONE3 COMMUNICATION FAULT
173	F	Smart sensor zone 4 comm fault	SMART SENSOR ZONE4 COMMUNICATION FAULT
174	F	Smart sensor zone 5 comm fault	SMART SENSOR ZONE5 COMMUNICATION FAULT
175	F	Smart sensor zone 6 comm fault	SMART SENSOR ZONE6 COMMUNICATION FAULT
176	F	Smart sensor zone 7 comm fault	SMART SENSOR ZONE7 COMMUNICATION FAULT
177	F	Smart sensor zone 8 comm fault	SMART SENSOR ZONE8 COMMUNICATION FAULT
178	S	Indoor unit comm fault	INDOOR UNIT COMMUNICATION FAULT
179	S	Outdoor unit comm fault	OUTDOOR UNIT COMMUNICATION FAULT
180	S	Zone board 1 comm fault	ZONE 1-4 COMM FAULT
181	S	Zone board 2 comm fault	ZONE 5-8 COMM FAULT
182	S	NIM comm fault	NIM COMMUNICATION FAULT
186	S	SAM Communication Fault	REMOTE ACCESS COMMUNICATION FAULT
187	F	Low Temperature Fault	LOW ROOM TEMP ALERT
188	F	High Temperature Fault	HIGH ROOM TEMP ALERT
189	F	High Humidity Fault	HIGH HUMIDITY ALERT
192	E	SAM radio test failed	SAM RADIO TEST FAILED
193	E	SAM profile failed	SAM PROFILE FAILED
194	S	Frozen coil detected	POSSIBLE FROZEN COIL
195	E	Airflow shutdown due to openness	ZONE 1 AIRFLOW LIMITED, STAGEDOWN
OCCURRED			

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195 OCCURRED	E	Airflow shutdown due to openness	ZONE 2 AIRFLOW LIMITED, STAGEDOWN
196 OCCURRED	E	Airflow shutdown due to openness	ZONE 3 AIRFLOW LIMITED, STAGEDOWN
197 OCCURRED	E	Airflow shutdown due to openness	ZONE 4 AIRFLOW LIMITED, STAGEDOWN
199 OCCURRED	E	Airflow shutdown due to openness	ZONE 5 AIRFLOW LIMITED, STAGEDOWN
200 OCCURRED	E	Airflow shutdown due to openness	ZONE 6 AIRFLOW LIMITED, STAGEDOWN
201 OCCURRED	E	Airflow shutdown due to openness	ZONE 7 AIRFLOW LIMITED, STAGEDOWN
202 OCCURRED	E	Airflow shutdown due to openness	ZONE 8 AIRFLOW LIMITED, STAGEDOWN
203	E	Utility curtailment	UTILITY CURTAILMENT EVENT
204	S	Signal missing on G terminal	AUXILIARY INPUT (G) SHUTDOWN
205	E	Generator signal on G terminal	GENERATOR MALFUNCTION
206	F	Zone 1 damper failed duct assessment	ZONE 1 DAMPER FAULT
207	F	Zone 2 damper failed duct assessment	ZONE 2 DAMPER FAULT
209	F	Zone 3 damper failed duct assessment	ZONE 3 DAMPER FAULT
210	F	Zone 4 damper failed duct assessment	ZONE 4 DAMPER FAULT
211	F	Zone 5 damper failed duct assessment	ZONE 5 DAMPER FAULT
212	F	Zone 6 damper failed duct assessment	ZONE 6 DAMPER FAULT
213	F	Zone 7 damper failed duct assessment	ZONE 7 DAMPER FAULT
214	F	Zone 8 damper failed duct assessment	ZONE 8 DAMPER FAULT

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