

Heat Pump Water Heaters

Aerotherm™ Series

Fault Code	Fault Code Description	Condition
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1	Lower Temp Sensor - T1 fault	T1 tank temperature sensor failure. Just before compressor starts, control checks T1 sensor is within 30°F - 170°F temperature range.
3	Lower Element Fault	Lower heating element failure. Control energizes lower element, but current sensor detects no current flow.
4	Upper Element Fault	Upper heating element failure. Control energizes upper element, but current sensor detects no current flow.
5	Control Fault	The control has detected a microcontroller or relay failure in the main control board.
6	Supply Voltage Fault	The voltage is too low at power-up. The control monitors the input line voltage one minute after power-up, and if the voltage is below 155 VAC, the fault code will be displayed.
7	Tank Over Temp Fault	The tank has overheated.
8	Fan Fault	The fan is not functioning properly, or could have a locked rotor.
9	Compressor Fault	Compressor failure. Control energizes compressor, but current sensor detects no current flow.
10	Superheat Fault	The control has detected an issue in the superheat stage of the refrigeration cycle, and the system may be too low in refrigerant.
11	Airflow Restriction	Filter is too dirty to enable proper function of water heater. The evaporator is operating at a colder temperature than the ambient temperature as measured by T5.
12	Evap Outlet Sensor - T3B Fault	T3b sensor (evaporator outlet temperature) failure. The control detects the thermistor output is at or nearly shorted or open circuit.
13	Evap Inlet Sensor - T3A Fault	T3a sensor (evaporator inlet temperature) failure. The control detects the thermistor output is at or nearly shorted or open circuit.
14	Compressor Outlet Sensor - T4 Fault	T4 sensor (compressor outlet) failure. The control detects the thermistor output is at or nearly shorted or open circuit.
15	Ambient Sensor - T5 Fault	T5 sensor (ambient temperature) failure. The control detects the thermistor output is at or nearly shorted or open circuit.
16	Ambient Temp Hi/Lo	The ambient temperature is either too high or too cold to run the compressor.

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17	Compressor Hi Temp Fault	The temperature of the compressor is too high.
18	Water Leak Detected	The control has detected a water leak.
92	Heating Relay Fault	The control has detected a fault in the heating relay.
93	Element Hard Fault	A heating element has failed and operation cannot continue.
94	Condensate Fault	Condensate drain port blocked. Water heater will only operate in standard/electric mode until the drain port is cleared and the sensor is no longer in contact with water.
95	EEV Hard Fault	The EEV has failed and operation cannot continue.
96	Superheat Hard Fault	An issue in the superheat stage of the refrigeration cycle has been detected and operation cannot continue.
97	Compressor Hard Fault	The compressor has failed and operation cannot continue.
98	Fan Hard Fault	The fan is not functioning and operation cannot continue.
99	Upper Temp Sensor - T2 fault	T2 tank temperature sensor failure. Just before compressor starts, control checks T2 sensor is within 30°F - 170°F temperature range.