

Trane CVHF Fault Code Quick Reference

Trane - CVHF fault codes | Model Type: Hermetic Centrifugal Chiller

Code	Alarm Description	Severity	Probable Causes	First Inspection Step
ED	Evaporator Water Flow Lost	Warning	Chilled water pump failure; Flow switch fault; Strainer clogged	Verify pump running
FD	Emergency Stop	Critical	E-stop activated; Remote safety open; Safety relay tripped	Check E-stop
F5	High Pressure Cutout	Critical	Condenser water flow low; Non-condensables; Refrigerant overcharge	Verify condenser water flow
B5	Low Suction Pressure	Warning	Low refrigerant charge; Expansion valve issue; Evaporator flow low	Check charge and superheat
BA	Motor Current Overload	Warning	Bearing failure; Voltage imbalance; Liquid floodback	Measure motor current
198	Low Oil Flow	Critical	Oil filter clogged; Oil pump failure; Low oil level	Check oil level
1DE	High Oil Temperature	Warning	Oil cooler fouled; Bearing wear; High discharge temp	Check oil cooler
1C6	High Differential Pressure	Critical	Condenser water temp too high; Non-condensables; Refrigerant overcharge	Check condenser water
8E	Evaporator Entering Water Temperature Sensor	Warning	Sensor failure; Wiring fault; Connector corrosion	Measure resistance
AB	Evaporator Leaving Water Temperature Sensor	Warning	Sensor degradation; Wire damage; Board input failure	Compare to thermometer
A1	Outdoor Air Temperature Sensor	Warning	Sensor moisture; UV damage; Element failure	Check resistance vs chart
D7	Over Voltage	Warning	Utility voltage surge; Transformer tap wrong; Voltage regulator failure	Measure line voltage
D8	Under Voltage	Warning	Utility brownout; Undersized conductors; Loose connections	Measure voltage at disconnect
398	BAS Communication Lost	Warning	BAS cable fault; BAS controller offline; Protocol mismatch	Check cable
5EF	System Watchdog	Warning	Control system crash; Memory corruption; Power supply instability	Cycle power
3A0	Compressor Vibration Alarm	Warning	Mounting bolts loose; Bearing wear; Foundation degradation	Measure vibration
D1	Suction Pressure Sensor - Circuit 1	Warning	Pressure sensor element failure; Sensor port blockage; Wiring fault	Compare to manifold gauge
D2	Discharge Pressure Sensor - Circuit 1	Warning	Discharge sensor failure; Wiring fault; Port blockage	Compare to mechanical gauge

Code	Alarm Description	Severity	Probable Causes	First Inspection Step
D3	Suction Pressure Sensor - Circuit 2	Warning	Circuit 2 suction sensor failure; Port blockage; Wiring fault	Compare reading to gauge
D4	Discharge Pressure Sensor - Circuit 2	Warning	Circuit 2 discharge sensor failure; Wiring fault; Port blockage	Compare to mechanical gauge
D5	Oil Pressure Sensor	Warning	Oil pressure sensor failure; Sensor port blocked; Wiring fault	Compare to mechanical oil gauge
D6	Oil Temperature Sensor	Warning	Oil temp sensor failure; Wiring damaged; Connector loose	Measure resistance
D9	Compressor Motor Temperature Sensor	Warning	Motor winding temp sensor failure; Wiring from motor damaged; Connector loose	Measure resistance
B6	Low Suction Refrigerant Pressure - Circuit 2	Warning	Low charge on circuit 2; Expansion valve 2 starving; Evaporator flow low	Check charge on circuit 2
F6	High Pressure Cutout - Compressor 2A	Critical	Condenser fouled; Non-condensables; Overcharge	Clean condenser
BB	Motor Current Overload - Compressor 2A	Warning	Bearing failure; Voltage imbalance; Floodback	Measure current
199	Low Oil Flow - Compressor 2A	Critical	Oil filter clogged; Oil pump failure; Low oil level	Check oil level
1C7	High Differential Refrigerant Pressure - Circuit 2	Critical	Condenser water temp too high; Non-condensables; Refrigerant overcharge	Check condenser water
1DF	High Oil Temperature - Compressor 2A	Warning	Oil cooler fouled; Bearing wear; High discharge temp	Check oil cooler
2E7	High Condenser Refrigerant Temperature - Circuit 2	Warning	Condenser flow too low; Condenser temp high; Tubes fouled	Verify flow

Disclaimer: All fault code data is for reference only. Do not use this information to replace certified professional HVAC technician judgment. Always refer to original OEM official service manual.