

ClimaCool WMC Fault Code Quick Reference

ClimaCool - WMC fault codes | Model Type: Modular Water-Cooled Chiller

Code	Alarm Description	Severity	Probable Causes	First Inspection Step
E01	Compressor module 1 high pressure	Critical	Condenser water flow insufficient; Non-condensables; Refrigerant overcharge	Verify condenser water flow
E02	Compressor module 1 low pressure	Warning	Low refrigerant charge; Expansion valve issue; Evaporator water flow low	Check charge
E03	Compressor module 1 motor overload	Critical	Motor bearing failure; Voltage imbalance; Liquid floodback	Measure current
E04	Compressor module 2 fault	Warning	Module 2 compressor overload; Module 2 mechanical fault; Module 2 contactor fault	Measure module 2 current
E05	Module communication fault	Warning	Inter-module communication cable damaged; Module controller offline; Address conflict	Check inter-module cable
E06	Evaporator water flow fault	Warning	Pump stopped; Flow switch fault; Strainer clogged	Verify pump
E07	Condenser water flow fault	Warning	Condenser pump stopped; Flow switch fault; Tubes fouled	Verify pump
E08	Freeze protection	Critical	Evaporator temp near freezing; Flow too low; Setpoint too low	Check temp
E09	Sensor fault	Warning	Sensor element failure; Wiring fault; Connector corrosion	Measure resistance
E10	Phase fault	Warning	Phase loss; Incorrect sequence; Blown fuse	Check phases
E11	Module isolation valve fault	Warning	Isolation valve motor failure; Valve position sensor fault; Valve stuck	Check valve motor
E12	Capacity control fault	Warning	Staging logic error; Module capacity mismatch; Lead/lag rotation fault	Check staging config
E13	Oil pressure low	Critical	Oil pump wear; Filter clogged; Low oil level	Check oil level
E14	Power supply fault	Warning	Voltage outside spec; Phase imbalance; Transformer failure	Measure voltage
E15	Communication fault	Warning	Network cable fault; Controller offline; Protocol mismatch	Check cable
E16	Compressor vibration alarm	Warning	Mounting bolts loose; Bearing wear; Foundation issue	Measure vibration
E17	Condenser fan 2 fault	Warning	Fan 2 motor failure; Capacitor defective; Relay fault	Check winding
E18	Compressor vibration alarm	Warning	Mounting loose; Bearing wear; Foundation issue	Measure vibration
E19	Pumpdown failure	Warning	Solenoid not closing; Pressure not reaching setpoint; Timer expired	Check solenoid

Code	Alarm Description	Severity	Probable Causes	First Inspection Step
E20	Compressor surge alarm	Warning	Near surge line; Condenser conditions severe; Charge incorrect	Check conditions
E21	High bearing temperature	Warning	Lubrication inadequate; Bearing wear; Oil flow insufficient	Check bearing sensors
E22	Low subcooling alarm	Warning	Charge low; Condenser not subcooling; Valve overfeeding	Check subcooling
E23	High superheat alarm	Warning	Valve starving; Charge low; Subcooling low	Check superheat
E24	Compressor start inhibit	Warning	Safety interlock; Anti-recycle timer; Oil heater	Check interlocks
E25	Evaporator approach temperature high	Warning	Fouled tubes; Low charge; Distribution issue	Calculate approach
E26	Condenser approach temperature high	Warning	Fouled condenser; Non-condensables; Overcharge	Calculate approach
E27	Energy efficiency alarm	Warning	Below expected efficiency; Approach temps high; Charge incorrect	Check kW/ton
E28	Compressor runtime exceeded	Warning	Exceeded max runtime; Maintenance interval; Inspection required	Check runtime log
E29	Refrigerant level alarm	Warning	Level sensor low; Refrigerant leak; Subcooling low	Check level sensor
E30	Cooling tower water fault	Warning	Tower fan not operating; Tower water level low; Condenser water temp high	Verify tower fan

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.