

York YVAA Fault Code Quick Reference

York - YVAA fault codes | Model Type: Variable Speed Screw Chiller

Code	Alarm Description	Severity	Probable Causes	First Inspection Step
E1	Supply fan failure	Warning	Fan motor failure; Fan motor capacitor defective; Fan control relay fault	Check fan motor winding resistance
E2	Exhaust fan failure	Warning	Exhaust fan motor seized; Fan blade obstruction; Fan VFD fault	Check fan rotation by hand when powered off
E3	Compressor A fault	Warning	Compressor motor overload; Compressor mechanical fault; VSD compressor A fault	Check compressor motor current
E4	Compressor B fault	Warning	Compressor motor overload; Mechanical fault in compressor B; VSD compressor B fault	Measure compressor B motor current
E5	Chilled water pump failure	Warning	Pump motor overload tripped; Pump mechanical seal failure; Pump starter or VFD fault	Check pump motor overload and reset
E6	Condenser fan failure	Warning	Condenser fan motor failure; Fan speed controller fault; Fan blade damage	Check condenser fan motor operation
E7	Expansion valve fault	Warning	Electronic expansion valve stepper motor failure; Expansion valve controller communication lost; Valve mechanically stuck	Check expansion valve wiring
E8	Flow switch fault	Warning	Chilled water flow switch stuck; Flow switch wiring open; Flow switch setpoint incorrect	Check flow switch operation manually
E9	High pressure alarm	Critical	Condenser airflow insufficient; Non-condensables in system; Refrigerant overcharge	Verify condenser fan operation and airflow
EA	Low pressure alarm	Warning	Low refrigerant charge; Expansion valve starving; Evaporator water flow low	Check refrigerant charge and superheat
EB	Freeze protection	Critical	Evaporator water temperature approaching freezing; Water flow too low; Setpoint too low	Check evaporator water temperature and flow
EC	Oil temperature high	Warning	Oil cooler inefficiency; Compressor bearing wear; Excessive discharge temperature	Check oil cooler operation
ED	Motor overload	Critical	High motor current from mechanical load; Voltage imbalance; Motor bearing failure	Measure motor current on all phases
EE	Phase loss/reversal	Critical	One phase of power missing; Phase sequence incorrect; Blown fuse on one phase	Check all three phases for voltage
EF	Communication fault	Warning	Network cable fault; Controller offline; Protocol mismatch	Check network cable connections
F1	Compressor surge detection	Warning	System operating too close to surge line; Condenser conditions too severe; Refrigerant charge incorrect	Check operating conditions against performance map

Code	Alarm Description	Severity	Probable Causes	First Inspection Step
F2	VSD communication fault	Warning	VSD communication cable damaged; VSD controller offline; Protocol mismatch between VSD and main controller	Check VSD communication cable
F3	VSD over-temperature	Warning	VSD heatsink temperature too high; VSD cooling fan failure; Ambient temperature too high in VSD enclosure	Check VSD heatsink temperature
F4	VSD hardware fault	Warning	VSD power module failure; VSD control board fault; VSD internal component failure	Check VSD fault code display
F5	Guide vane position fault	Warning	Guide vane actuator motor failure; Guide vane position sensor fault; Guide vane linkage mechanical binding	Check guide vane actuator operation
F6	Oil separator heater fault	Warning	Oil separator heater element failure; Heater thermostat malfunction; Heater wiring damaged	Check oil separator heater continuity
F7	Economizer fault	Warning	Economizer valve stuck; Economizer temperature sensor fault; Economizer control circuit failure	Check economizer valve operation
F8	Subcooling control valve fault	Warning	Subcooling valve stepper motor failure; Valve position feedback sensor fault; Valve controller communication lost	Check valve motor operation
F9	Refrigerant leak detection	Warning	Refrigerant leak detector activated; Refrigerant leak detected in system; Leak detector sensor fault or calibration drift	Verify leak detector reading
H7	High motor bearing temperature	Warning	Bearing lubrication inadequate; Bearing wear; Excessive vibration	Check bearing temperature sensors
H8	Low refrigerant charge detected	Warning	Refrigerant leak in system; Subcooling below expected value; Refrigerant level sensor indicating low charge	Check subcooling and superheat
H9	High oil discharge temperature	Warning	Oil cooler inefficiency; Compressor bearing friction; High discharge temperature from system	Check oil cooler operation
HA	Variable geometry inlet fault	Warning	Variable inlet guide vane actuator failure; Position sensor fault; Mechanical binding of guide vanes	Check actuator motor operation
HB	Pumpdown sequence fault	Warning	Pumpdown solenoid valve not closing; System pressure not reaching pumpdown threshold; Pumpdown timer expired	Check pumpdown solenoid valve operation
U10	Low refrigerant level alarm	Warning	Refrigerant leak detected; Subcooling below threshold; Level sensor indicating low charge	Check subcooling

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.