

SERVICE MANUAL SUPPLEMENT – QUICK SERVICE GUIDE

24V DAMPER SERIES - ICON HD

Error Code	Definition	Service Action	Possible Parts Needed
4	Low flame sense signal	Check micro amps Inspect pilot assembly and wires	1) Pilot assembly 2) Control board
6	Flame sensed out of normal sequence	Verify if pilot is present Is gas valve powered by 24V? Inspect pilot for grounding	1) Gas valve 2) Control board 3) Pilot assembly
18	Gas valve fault	Change gas valve	1) Gas valve
23	Flame detected before ignition	Verify if pilot is present Is gas valve powered by 24V? Inspect pilot for grounding	1) Gas valve 2) Control board 3) Pilot assembly
24	Flame detected after heating cycle completes	Verify if pilot is present Is gas valve powered by 24V? Inspect pilot for grounding	1) Gas valve 2) Control board 3) Pilot assembly
31	Upper temp sensor-incorrect reading	Measure resistance of upper sensor	1) Upper temp sensor 2) Control board
32	Lower temp sensor-incorrect reading	Measure resistance of lower sensor	1) Lower temp sensor 2) Control board
55	Damper stuck closed	Verify operation, should open / close under its own power	1) Damper
56	Damper stuck open	Verify operation, should open / close under its own power	1) Damper
57	Flame sensor shorted to ground	Inspect flame sensor wire Inspect pilot assembly Inspect pilot shield	1) Pilot assembly 2) Pilot shield 3) Control board
58	Power supply problem (line voltage)	Verify proper supply voltage, grounding/polarity	None
59	Line voltage too low or high	Verify dedicated circuit is being used	None
61	DC voltage unstable	Verify transformer output is 22-27 Vac	1) Control board 2) Transformer
62	Ignition failure	Verify gas pressure Inspect pilot assembly Test for 24V from control to pilot valve	1) Pilot assembly 2) Control board 3) Gas valve
63	Ignition failure	Verify gas pressure Inspect pilot assembly Test for 24V from control to pilot valve	1) Pilot assembly 2) Control board 3) Gas valve
64	Electronics failure	Verify all electrical connections Check wire connections/ground	1) Control board 2) Display 3) Pilot assembly
65	High water temperature (over 200F)	Measure resistance of upper sensor Measure resistance of lower sensor	1) Upper temp sensor 2) Lower temp sensor 3) Control board

NOTE: No display check primary/secondary voltage
Check all wire connections
Check vent restrictions

Check inlet and manifold gas pressure
Check for grounding connections