

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