

Service Manual Supplement-Quick Service Guide for D-Series and RG*D-Series Products

ICON — Damper Equipped Water Heaters

| ERROR CODE | DEFINITION | SERVICE ACTION | POSSIBLE PARTS NEEDED |
|--|---|--|---|
| No LED | No power to the unit or switch is off | Turn heater on Verify 120 volts present at outlet | None |
| One short flash every four seconds | Standby mode / unit up to temp. | None | None |
| Bright / dim alternating LED | Thermostat calling for heat | None | None |
| Short flash once every second | Weak pilot signal on last call for heat | Inspect and clean pilot assembly Check continuity on flame sensor / spark wire | 1) Pilot assembly 2) Gas valve |
| Two flashes and three second pause | Damper not in proper position or malfunctioning: Damper stuck in open position | Check damper / vent for blockage Verify voltage to damper | 1) Damper 2) Gas valve |
| Three flashes and three second pause | Damper not in proper position or malfunctioning: Damper stuck closed / not reaching full open position | Check damper / vent for blockage Verify voltage to damper Bypass damper for testing | 1) Damper 2) Gas valve |
| Four flashes and three second pause | High tank temperature | Check temp probe ohms - compare with sensor temp chart | 1) Thermowell 2) Gas valve |
| Five flashes and three second pause | False pilot flame sensed / pilot valve stuck open | Check for flame sensor short to ground Gas valve stuck open - replace valve | 1) Pilot assembly 2) Gas valve |
| Six flashes - one flash and three second pause | Pilot failed to light | Inspect and clean pilot, check connection at gas valve Verify gas flow | Pilot assembly Gas valve |
| Six Flashes - two flashes and three second pause | Damper moved from full open position during run cycle (System auto resets after (5) minutes) | Check damper / vent for blockage Verify voltage to damper Bypass damper for testing | 1) Damper 2) Gas valve |
| Six Flashes - three flashes, three second pause | Pilot flame extinguished | Inspect and clean pilot, check connection at gas valve | 1) Pilot assembly 2) Gas valve |
| Six Flashes - four flashes, three second pause | False pilot flame sensed / pilot valve stuck open | Check for flame sensor short to ground Verify gas valve stuck open - replace valve | 1) Pilot assembly 2) Gas valve |
| Seven flashes | Flammable vapor sensor out of specification Resettable thermal limit in open position | Verify vapor sensor resistance is between 3.0 - 48 KOhms Check continuity on temp limit / clean intake screen Verify no flammable vapors present Check sensor and limit harness | Flammable vapor sensor Resettable thermal limit Harness |
| Eight flashes - one flash, three second pause | Flammable vapor sensor out of spec, possible short | Verify vapor sensor resistance is between 3.0 - 48 KOhms Verify no flammable vapors present Check sensor and limit harness | Flammable vapor sensor Resettable thermal limit Harness |
| Eight flashes - three flashes, three second pause | Thermowell sensor damaged or unplugged Gas valve electronics fault | Check temp probe ohms - compare with sensor temp chart Reset gas valve. If problem persists, replace gas valve | 1) Thermowell and gas valve |
| Eight flashes - four flashes, three second pause | Gas valve fault detected | Reset gas valve. If problem persists, replace gas valve | 1) Gas valve |

NOTE:

Check all wire connections Check gas inlet and manifold gas pressure Check for grounding connections

Technical Support 800-334-3393