

**Ultra Low NOx Atmospheric Vent and Direct Vent - ICON 2.0**  
Serial Date Code "TA" (Jan 2019) and Later\*



| Error Code                        | Definition  | Service Action  | Possible Parts Needed                                |
|-----------------------------------|---|---|--|
| No LED                            | No pilot light / Heater not in operation  | Follow lighting instructions on the water heater  | 1) None  |
| One flash & four second pause     | Knob in pilot position or thermostat satisfied  | None  | 1) None  |
| One flash every second            | Thermostat calling for heat   | None  | 1) None  |
| Two flashes & three second pause  | Weak pilot signal detected  | Verify pilot is lit<br>Check thermopile voltage output<br>Check wire connections at gas valve                           | 1) Pilot assembly<br>2) Gas valve                    |
| Four flashes & three second pause | High tank temperature   | Check if tank temperature exceeds setpoint<br>Check operation of control<br>Verify no heat migration in plumbing system | 1) Gas valve   |
| Five flashes & three second pause | Gas valve thermostat sensor fault   | Reset gas valve; if problem persists replace gas valve  | 1) Gas valve   |
| Six flashes & three second pause  | Chamber door temp sensor out of specification   | Check door sensor ohms<br>Clean screenlok<br>Clean burner   | 1) Chamber door sensor                               |
| Nine flashes & three second pause | Tank leakage detected by accessory module   | Refer to trouble shooting for the accessory module  | 1) Refer to troubleshooting for the accessory module |
| Ten flashes & three second pause  | Insufficient combustion air detected  | Check gas pressure<br>Clean screenlok vapor screen in chamber<br>Check venting<br>Clean burner                          | 1) Chamber door sensor                               |
| Solid ON                          | Not an error-indicates that the control is shutting down<br>Control knob turned to the off position | None; wait until LED goes out before attempting to relight  | 1) None  |

\*If serial is at or near this date please contact Technical Support to verify control generation. Always check the manufacture date using the For The Pro® Contractor app or at [bradfordwhite.com](http://bradfordwhite.com)

**Ultra Low NOx Atmospheric & Direct Vent - ICON 1.0**  
Serial Date Code "TA" (Jan 2019) and Prior\*



| Error Code  | Definition  | Service Action  | Possible Parts Needed             |
|---|---|---|-----------------------------------|
| No LED  | No pilot light / Heater not in operation  | Follow lighting instructions on the water heater  | 1) None                           |
| One flash & three second pause                      | Knob in pilot position or thermostat satisfied  | None  | 1) None                           |
| LED strobe (two quick flashes) & three second pause | Thermostat calling for heat   | None  | 1) None                           |
| LED on continuously                                 | Control knob turned to the off position   | Wait for LED to go off before relighting  | 1) None                           |
| Two flashes & three second pause                    | Weak pilot signal detected  | Verify pilot is lit<br>Check thermopile voltage output<br>Check wire connections at gas valve                           | 1) Pilot assembly<br>2) Gas valve |
| Three flashes & three second pause                  | Control has not seen temp rise in proper amount of time   | Check gas pressure<br>Verify water is not flowing   | 1) Gas valve                      |
| Four flashes & three second pause                   | High tank temperature   | Check if tank temperature exceeds setpoint<br>Check operation of control<br>Verify no heat migration in plumbing system | 1) Gas valve                      |
| Five flashes & three second pause                   | Gas valve thermostat sensor fault   | Reset gas valve; if problem persists replace gas valve  | 1) Gas valve                      |
| Six flashes & three second pause                    | Chamber door temp sensor out of specification   | Check door sensor ohms<br>Clean screenlok vapor screen in chamber<br>Clean burner                                       | 1) Chamber door sensor            |
| Seven flashes & three second pause                  | Gas valve fault   | Reset gas valve if problem persists replace gas valve   | 1) Gas valve                      |
| Eight flashes & three second pause                  | Pilot remains lit while the control knob is in off position   | Check gas pressure<br>Replace gas valve   | 1) Gas valve                      |
| Ten flashes & three second pause                    | Insufficient combustion air detected  | Check gas pressure<br>Clean screenlok vapor screen in chamber<br>Check venting<br>Clean burner                          | 1) Chamber door sensor            |
| <b>NOTE:</b>  | <b>Check all wire connections</b><br><b>Check gas inlet and manifold gas pressure</b><br><b>Check for grounding connections</b> |   |                                   |

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