

# Atmospheric and Direct Vent Water Heaters - 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 temp probe ohms<br>Check if tank temperature exceeds setpoint<br>Verify no heat migration in plumbing system | 1) Gas valve cover w/ temp probe<br>2) Gas valve     |
| Five flashes & three second pause  | Thermostat sensor fault   | Check temp probe ohms/ensure tight connection<br>Replace gas valve   | 1) Gas valve cover w/ temp probe<br>2) Gas valve     |
| Six flashes & three second pause   | Tank leakage detected by accessory module   | Refer to troubleshooting for the accessory module  | 1) Refer to troubleshooting for the accessory module |
| 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  |
| <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> |   |  |  |

\*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)

# Atmospheric and Direct Vent Water Heaters - 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  | Gas valve has not seen temp rise in proper amount of time   | Check temp probe ohms  | 1) Gas valve cover w/ temp probe                     |
| Four flashes & three second pause   | High tank temperature                                       | Check temp probe ohms<br>Check if tank temperature exceeds setpoint<br>Verify no heat migration in plumbing system | 1) Gas valve cover w/ temp probe<br>2) Gas valve     |
| Five flashes & three second pause   | Thermostat sensor fault                                     | Check temp probe ohms/ensure tight connection<br>Replace gas valve   | 1) Gas valve cover w/ temp probe                     |
| Six flashes & three second pause  | Water leak detected by the accessory module (if installed)  | Refer to trouble shooting for the accessory module   | 1) Refer to troubleshooting for the accessory module |
| 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   |
| <b>NOTE:</b> Check all wire connections<br>Check gas inlet and manifold gas pressure<br>Check for grounding connections |   |  |  |

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