

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 Check thermopile voltage output Check wire connections at gas valve	1) Pilot assembly 2) Gas valve
Four flashes & three second pause	High tank temperature	Check if tank temperature exceeds setpoint Check operation of control 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 Clean screenlok 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 Clean screenlok vapor screen in chamber Check venting Clean burner	1) Chamber door sensor
Solid ON	Not an error-indicates that the control is shutting down 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

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 Check thermopile voltage output Check wire connections at gas valve	1) Pilot assembly 2) Gas valve
Three flashes & three second pause	Control has not seen temp rise in proper amount of time	Check gas pressure Verify water is not flowing	1) Gas valve
Four flashes & three second pause	High tank temperature	Check if tank temperature exceeds setpoint Check operation of control 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 Clean screenlok vapor screen in chamber 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 Replace gas valve	1) Gas valve
Ten flashes & three second pause	Insufficient combustion air detected	Check gas pressure Clean screenlok vapor screen in chamber Check venting Clean burner	1) Chamber door sensor
NOTE: Check all wire connections Check gas inlet and manifold gas pressure Check for grounding connections			

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