

**SERVICE MANUAL SUPPLEMENT – QUICK SERVICE GUIDE FOR  
 U-SERIES AND URG-SERIES PRODUCTS**

**ULTRA LOW NOX ATMOSPHERIC VENT - ICON**

<b>Error Code</b>	<b>Definition</b>	<b>Service Action</b>	<b>Possible Parts Needed</b>
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 (no faults)	None	1) None
LED strobe (two quick flashes) & three second pause	Thermostat calling for heat (no faults)	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 temp probe ohms Check gas pressure Verify water is not flowing	1) Gas valve
Four flashes & three second pause	High tank temperature	Check temp probe ohms Check gas valve	1) Thermowell 2) Gas valve
Five flashes & three second pause	Thermostat sensor fault	Check temp probe ohms Check gas valve cover	1) Thermowell 2) 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
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 Check venting Clean burner	1) Chamber door sensor

**NOTE:** Check all wire connections  
 Check gas inlet and manifold gas pressure  
 Check for grounding connections