







Note: If the Blower runs continuously, unplug F1/F2 connector from the Ignition Control, if the Blower goes off replace the Ignition Control. Of the Blower stays on, check for shorted wires between the Ignition Control and PDB or from the PDB and the Blower.			
Service Codes	DISPLAY FUALT	CAUSE	REMEDY
	Fault- Pump	1. Pump is not running	 This is a normal display when the control is in Maintain Temp mode. NO SERVICE REQUIRED.
Flow Rates (gpm) BTUs MIN MAX 200 30 120 260 30 120 330 30 120	NO FLOW	 Pump is not running Low pump pressure. Pressure switch fault 	 Check breakers and power source, recheck wiring , set time clock and current time. Clean filter, clear blockages, check position of all valves in plumbing system Adjust or replace pressure switch. Refer to qualified service personnel.
	FAULT – HIGH LIMIT	 Water Temperature in heater exceeds the Internal limit. Limit switch fault. 	 Verify function of high limit switches. Perform temperature rise test. Identify and correct cause of overheating. Identify loose connections or replace switches. Refer to qualified Service Personnel.
400 30 120	FAULT- FUSELINK/FIEL	1. Vent Limit fault.	 Identify loose connections or replace Vent Limit. Refer to qualified Service Personnel.
GAS PRESSURE Inches of Water Column Natural LP Max Inlet 10.5 14 Min Inlet 4 4	FAULT- CHECK IGN CONTROL	 Broken, split, pinched or disconnected fan/switch tubing. Fan not operating. Fan running slow or premature fan failure. Air flow restricted at intake or discharge. Oscillating pump pressure. Low gas supply pressure. No flame at burners. 	 Check tubing and replace if necessary. Correct fault or replace fan. Refer to qualified service personnel. Verify proper wiring for 120 or 240 VAC. Refer to qualified service personnel. Check for proper clearances around heater and for adequate room ventilation if enclosed. Inspect for blockages or restriction at discharge of flue. Refer to qualified service personnel. Clean filter or identify and repair cause of pump oscillation. Identify and correct loose wiring connections, or problems with igniter, flame sensor, gas valve, or ignition control. Refer to qualified service personnel.
Gas Offset -0.2 -0.2	Fault- Shorted H2O Sensor Or Open Water Sensor	 1.aulty wiring or connection. 2. Failed sensor. 	 Inspect sensor wiring. Ensure sensor is connected into Power Interface Board. Replace temperature sensor. Refer to qualified service personnel.