TROUBLESHOOTING GUIDE

(for all Gen II units)

This guide contains information for identifying and correcting any issues that may arise.





Product Support/Warranty

If the water heater requires additional service, please use one of the following options for contacting Intellihot Technical Support:

- Call: 309-473-8040 (toll-free 1-877-835-1705), press 1
- Email: support@intellihot.com

When contacting Technical Support, please have the following information ready:

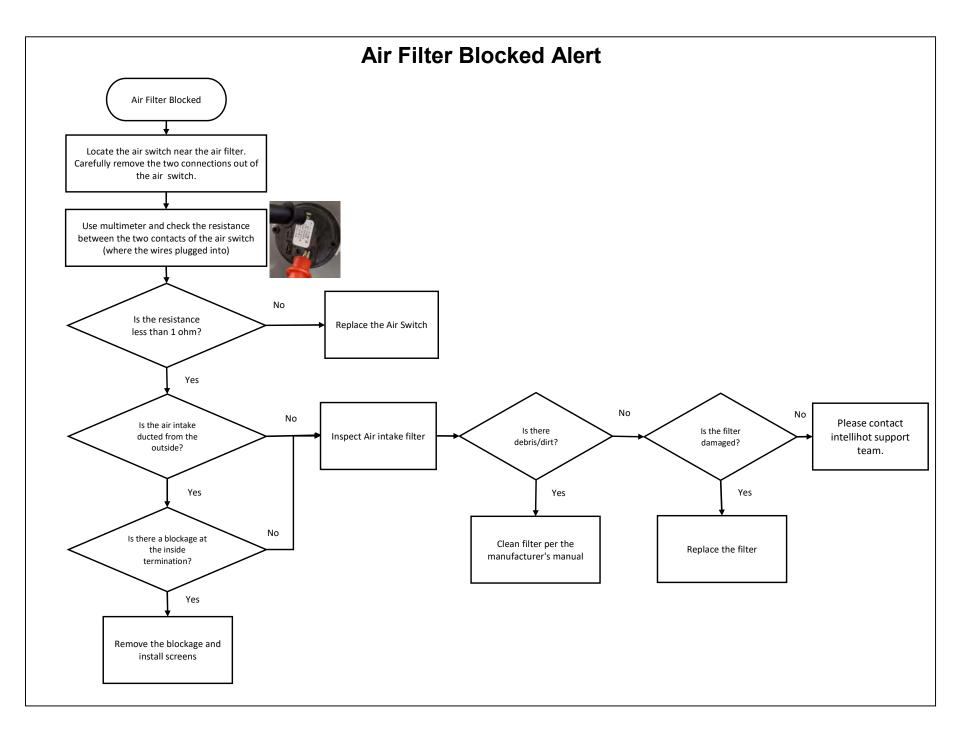
- Model Number
- Serial Number
- Date Purchased/Installed
- Installation location & application

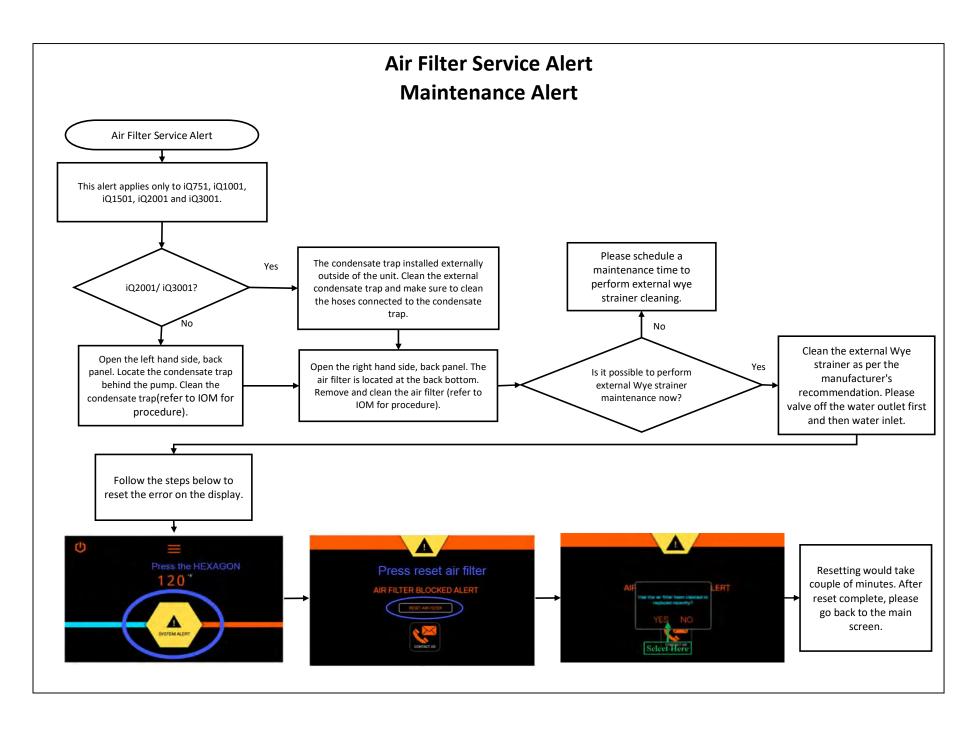
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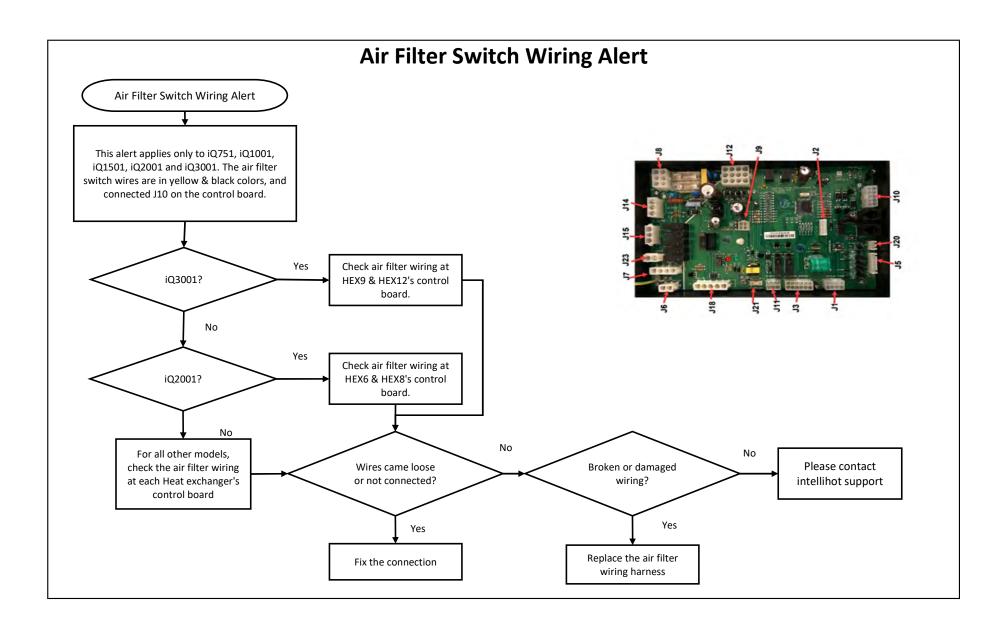
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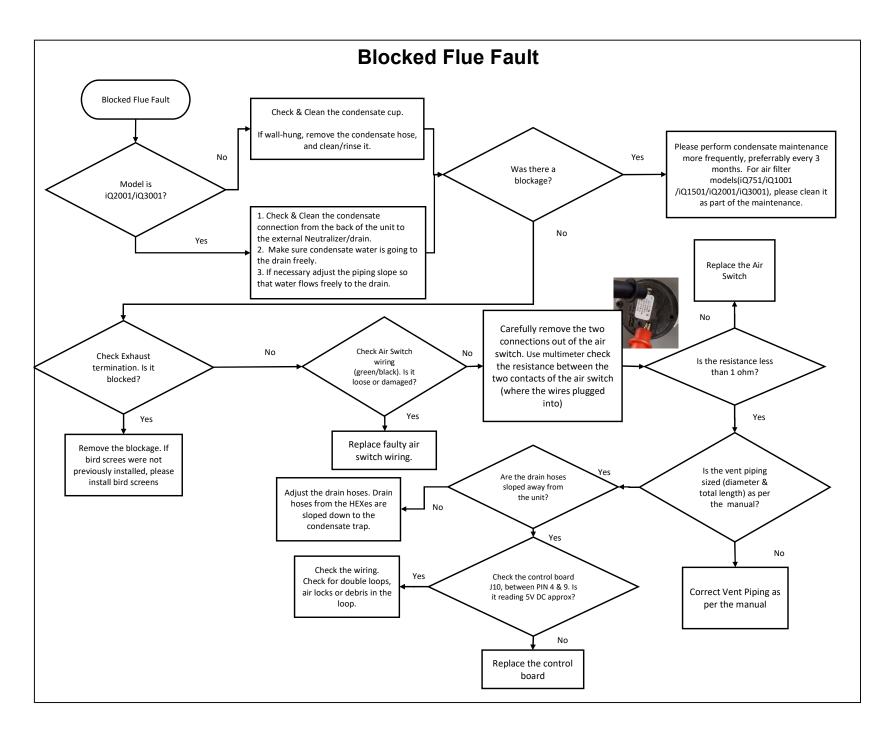
Suggested Tool List

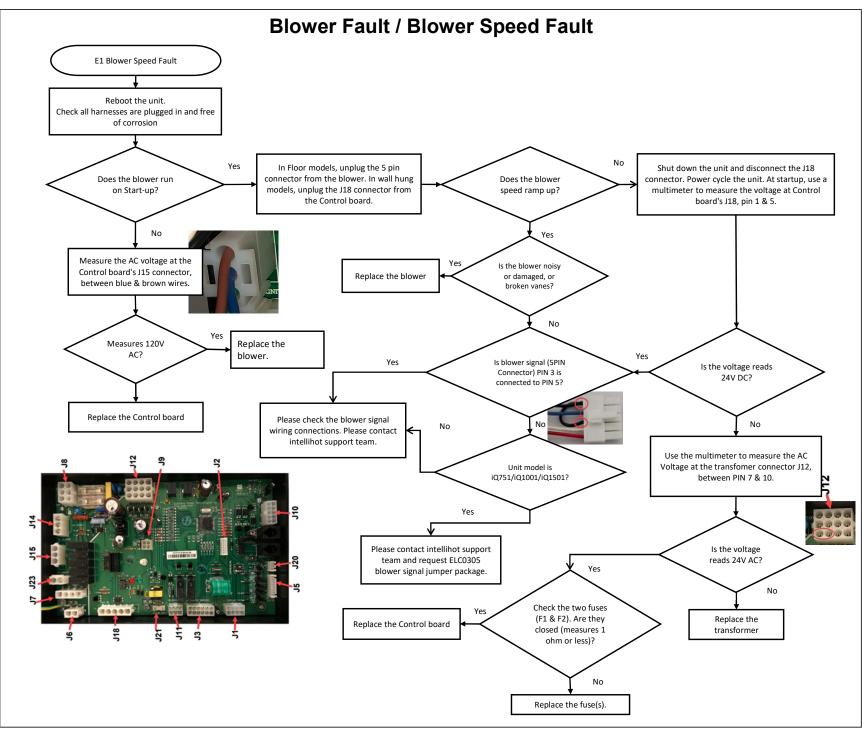
- Digital Manometer
- Electrical Multimeter
- Flue Gas Analyzer (for NOx & CO₂)
- 7mm Socket/Ratchet
- #1 & #2 Phillips Screwdrivers
- Instrument Flat Blade Screwdriver
- Pliers
- Adjustable Wrench

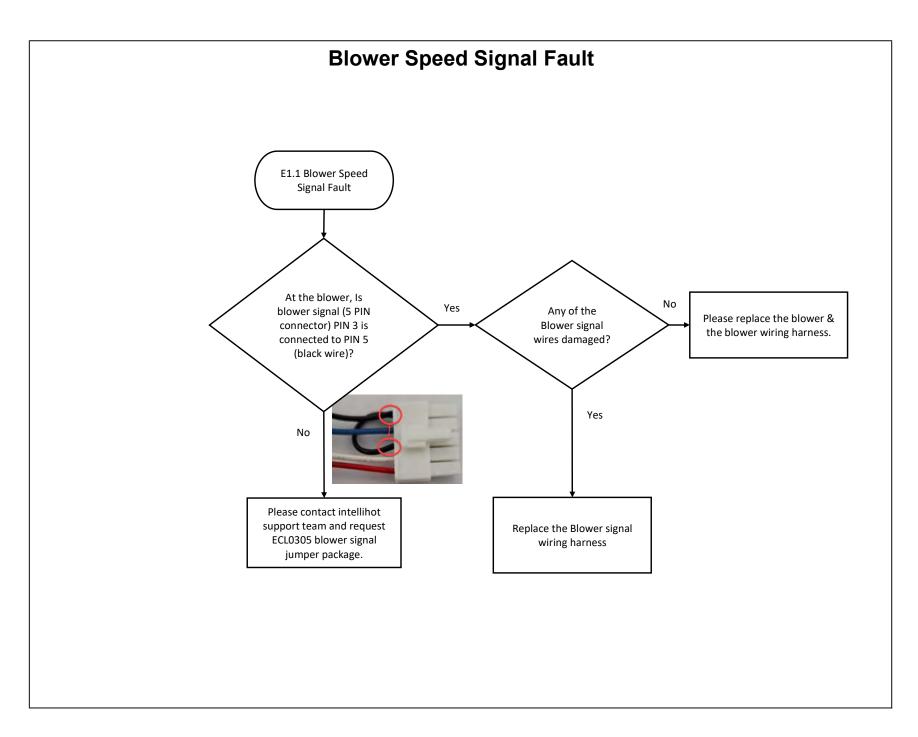


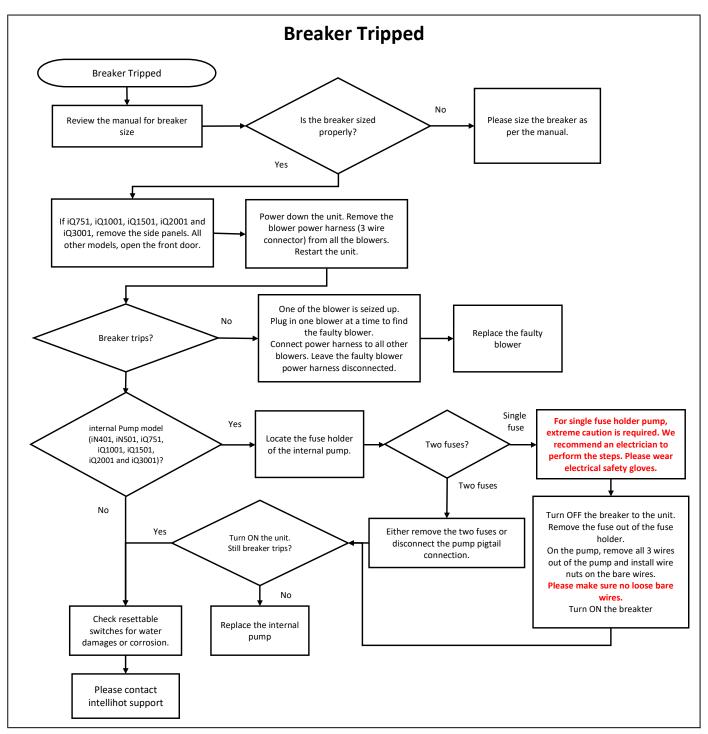


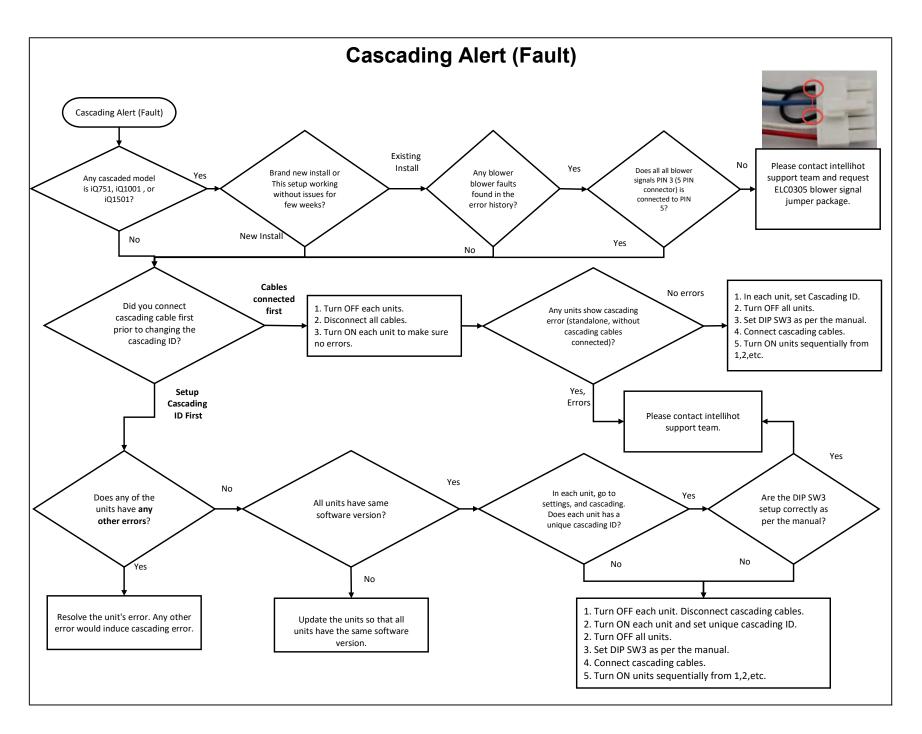


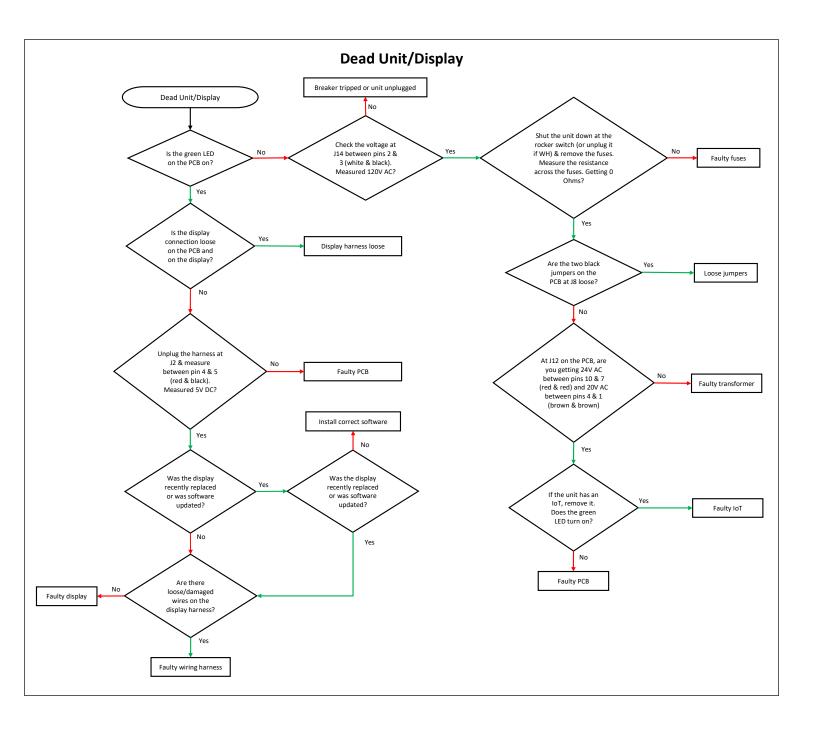


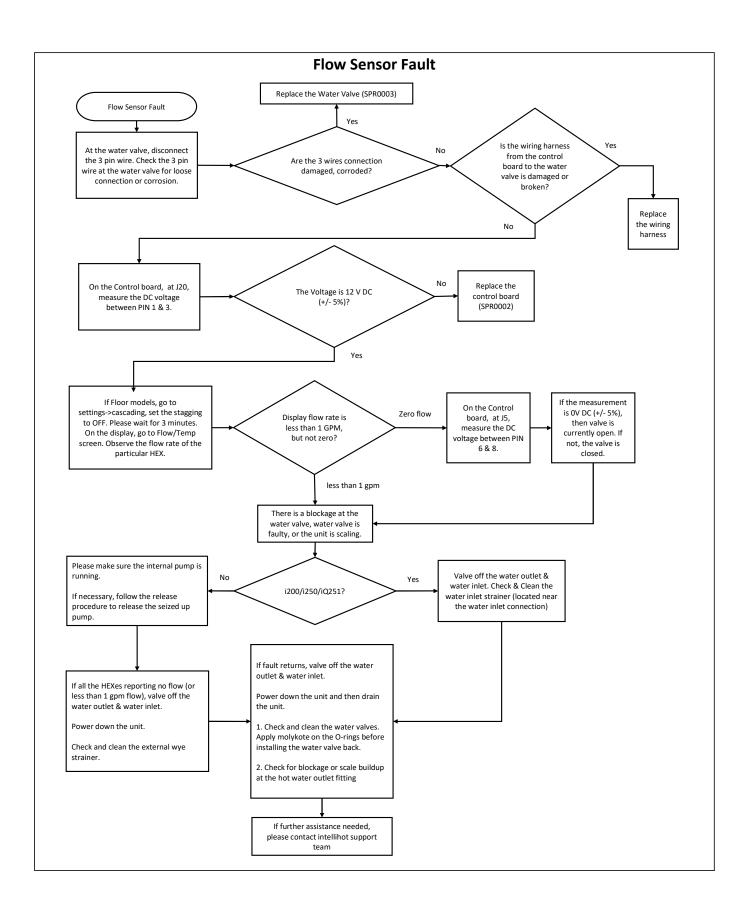


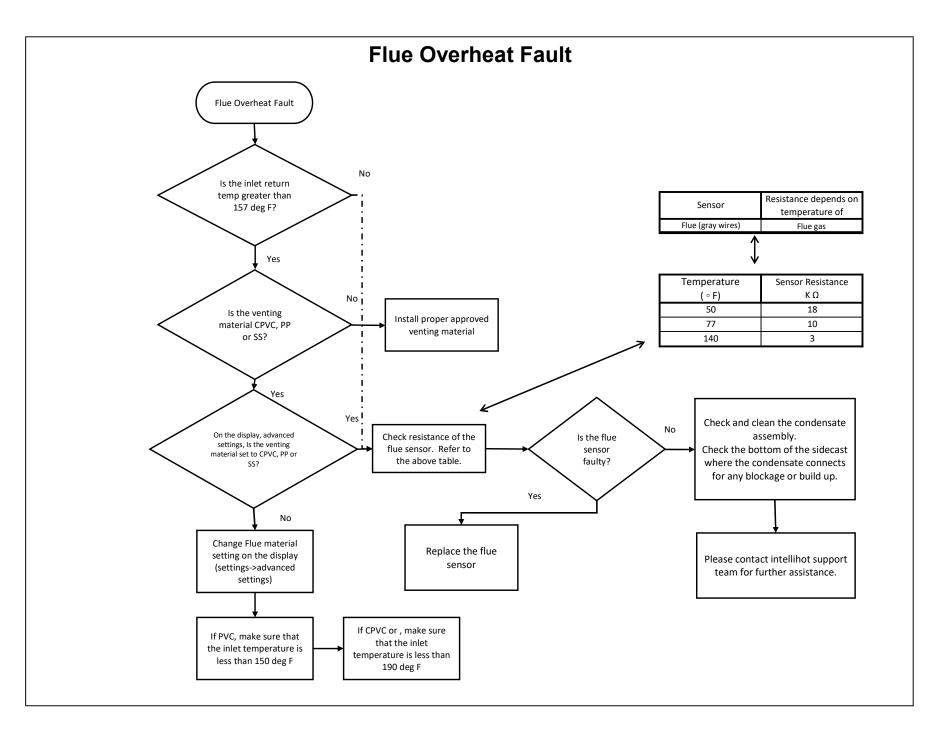


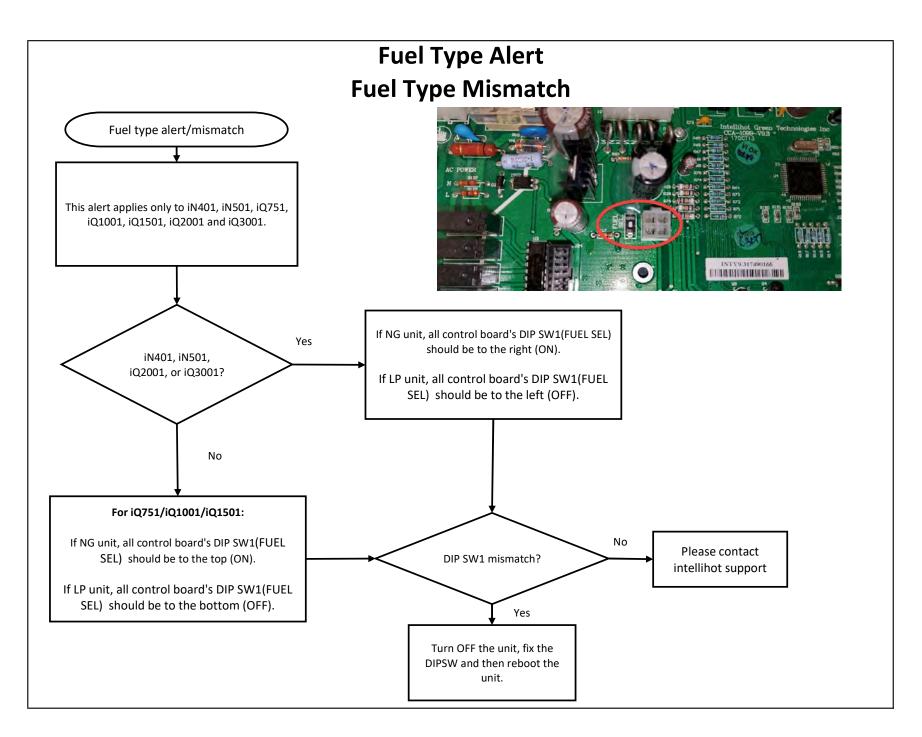


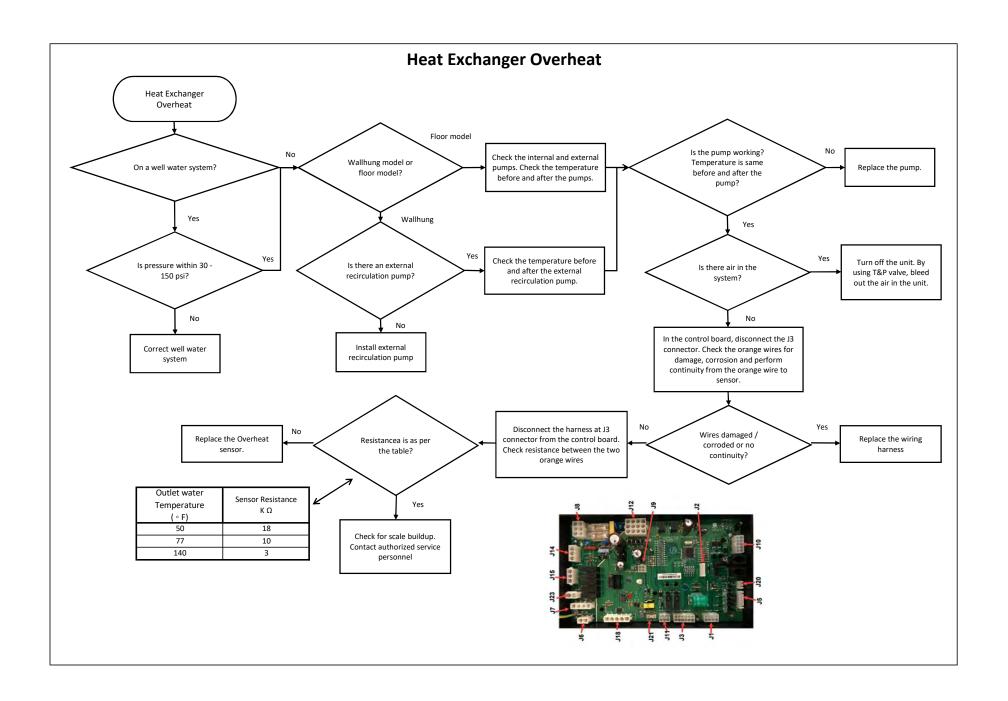


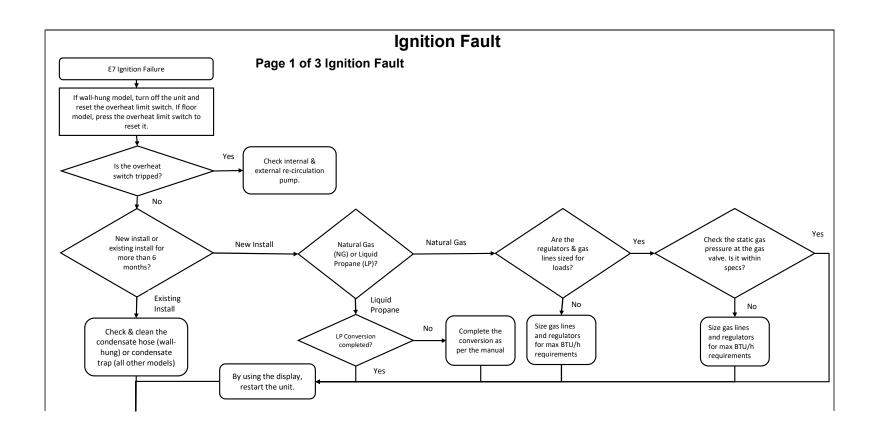


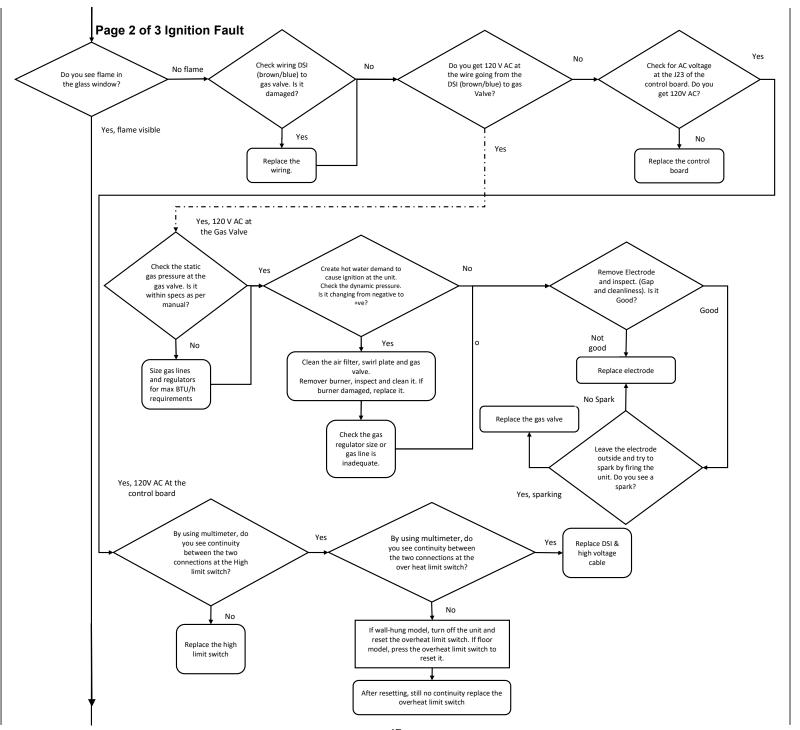


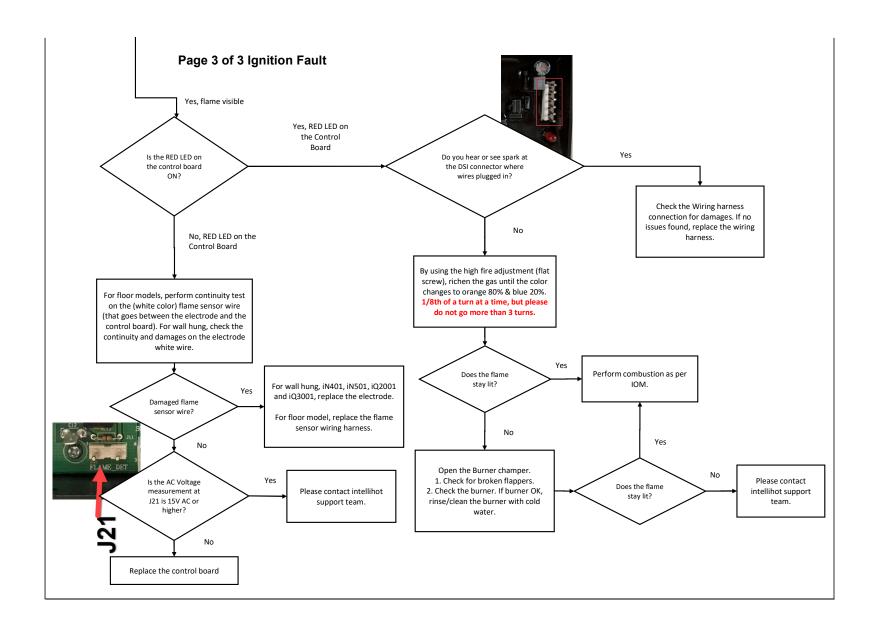


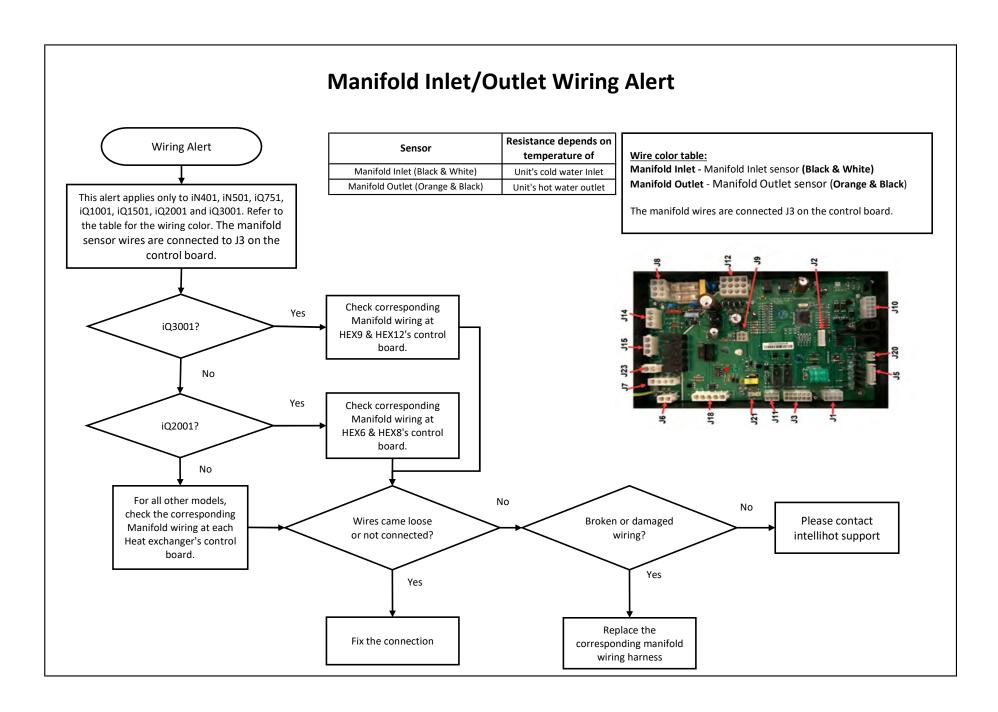


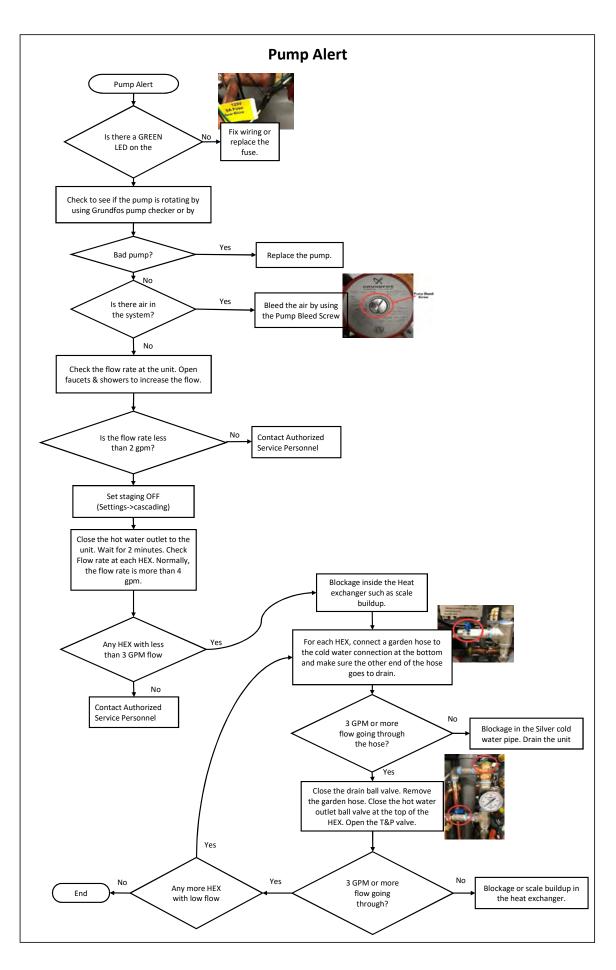


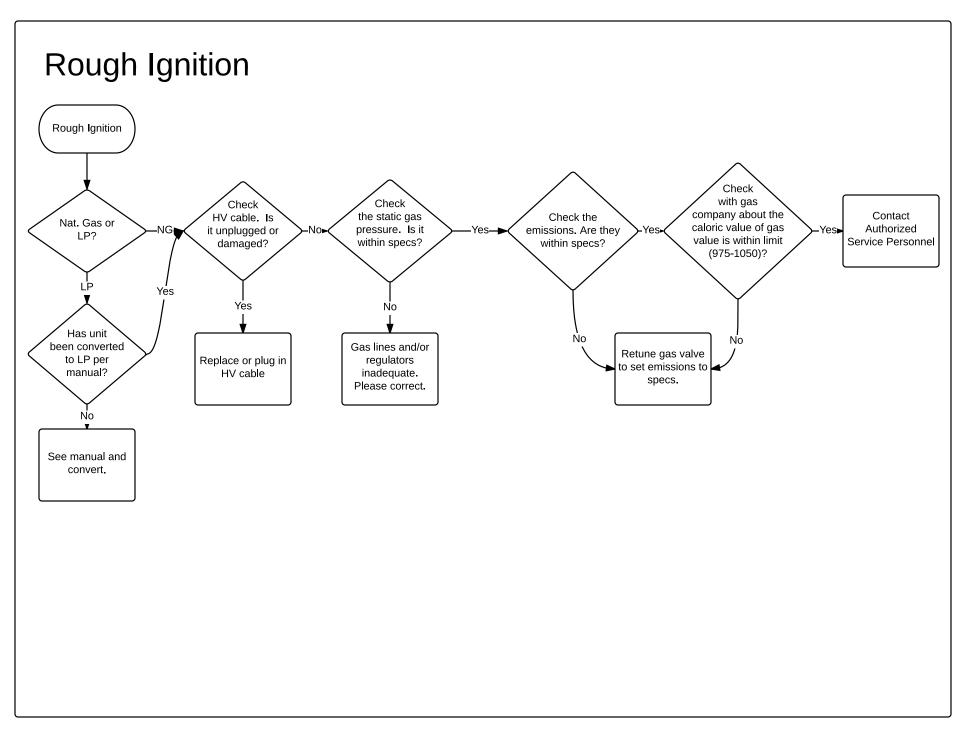




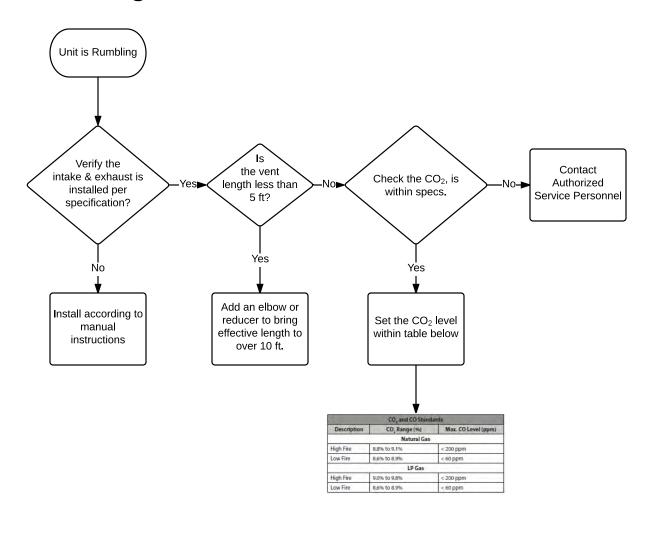


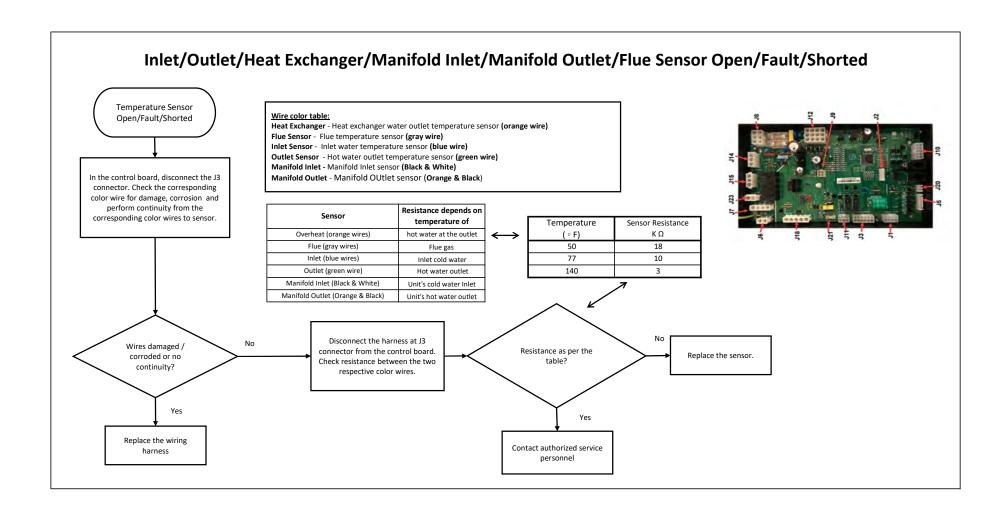


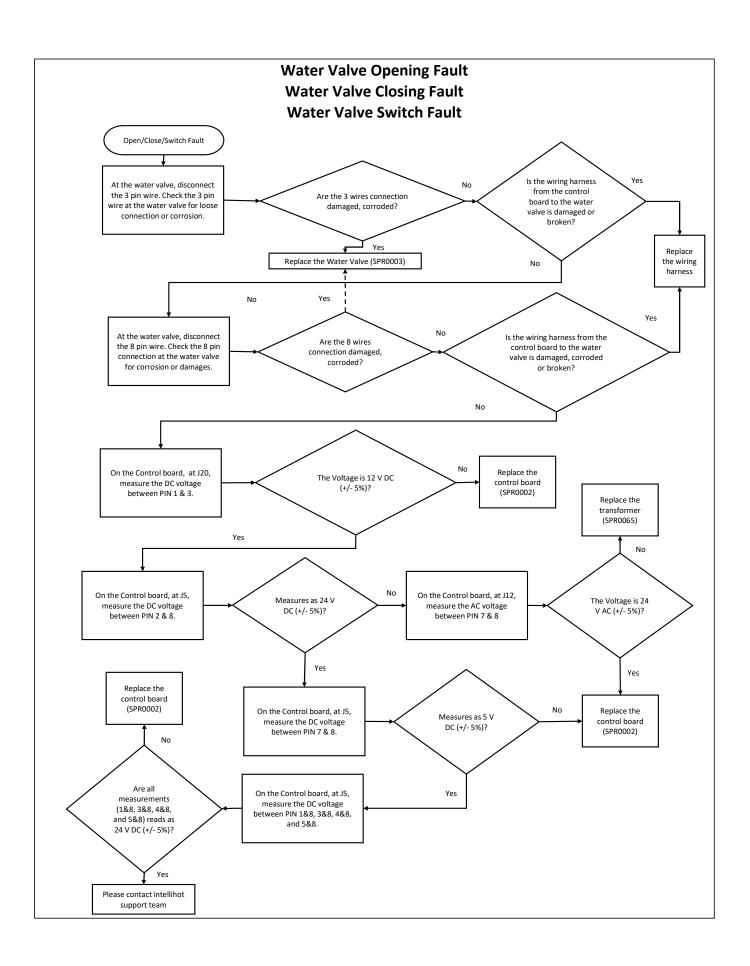


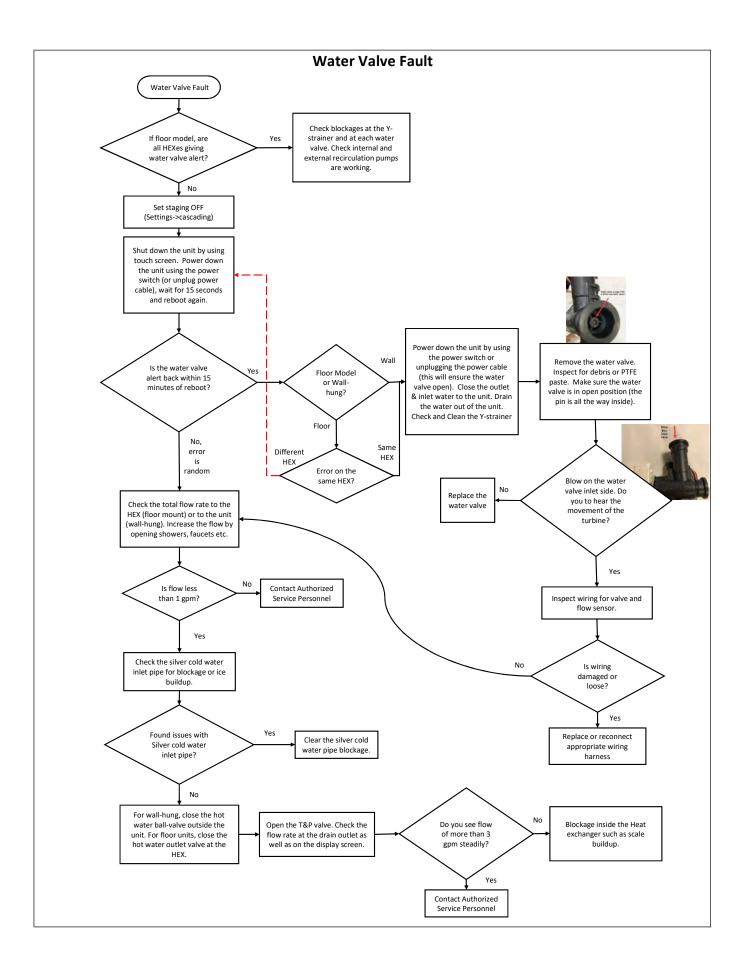


Rumbling









Appendix

BLOWER REPLACEMENT (See Diagram, page 26)

The blower is located on the top of the heat exchanger

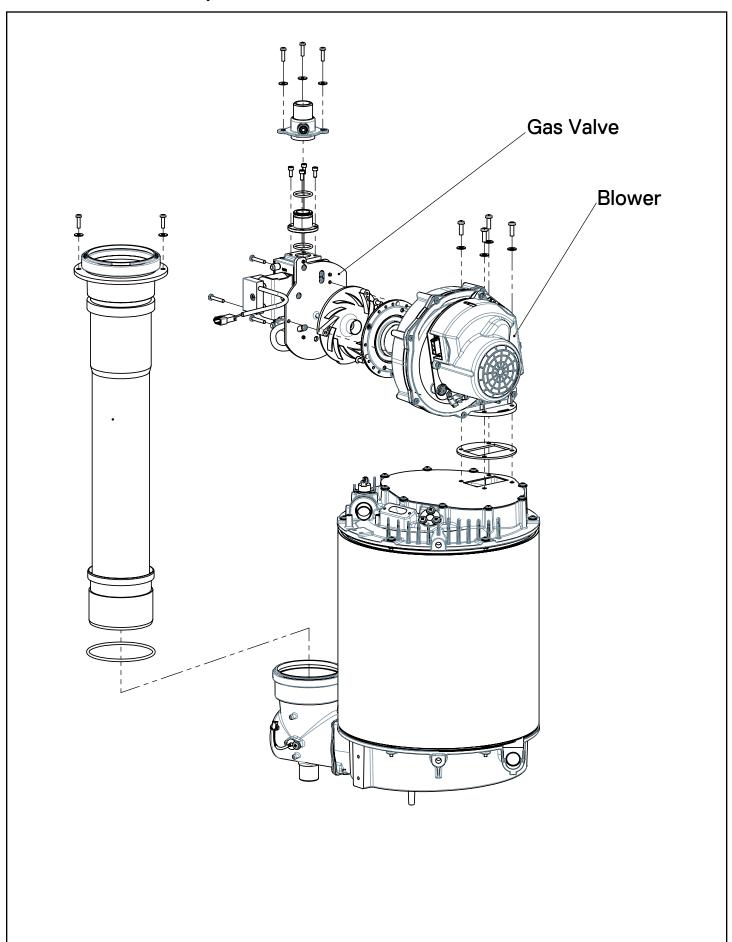
- Shut off the gas to the heater
- Shut off power to the heater by unplugging the unit from the 120 VAC outlet
- remove the front panel (three screws at top and three at bottom)
- Unplug the display cable from the pcb (press plastic tab and pull)
- lift up and remove the front display bracket
- Unplug all the wiring connections from the blower (press the tabs and pull)
- remove the gas valve wiring located behind the blower
- Unplug the HV cable from the DSI
- Remove the gas connection at the top isolating the unit's gas supply from the building
- remove phillips screws to remove the aluminum gas fitting at the top the unit
- remove 4 allen screws to remove the aluminum gas adapter fitting
- remove two plastic taps on top of the cabinet to access the screws securing the blower
- remove 4 screws securing the blower from the top using a long screwdriver
- remove the entire blower gas valve assembly from the unit
- remove the gas valve 3 torx screws
- install the gas valve on the new blower
- reverse process to assemble the blower back to the heater
- ensure the gasket is installed between the blower and the top housing
- Install the blower gas valve using 4 screws and a long screw driver
- Install the aluminum gas adapter on top of the gas valve
- Install the gas fitting and secure it using 4 screws to the cabinet
- Install the building gas supply
- Install the blower wiring, HV cable and gas valve wiring
- turn gas supply back on and check for any gas leaks
- turn water on and plug the heater to the outlet

GAS VALVE REPLACEMENT (See Diagram, page 26)

The blower gas valve assembly is located on the top of the heat exchanger

- Shut off the gas to the heater
- Shut off power to the heater by unplugging the unit from the 120 VAC outlet
- remove the front panel (three screws at top and three at bottom)
- Unplug the display cable from the pcb (press plastic tab and pull)
- lift up and remove the front display bracket
- Unplug all the wiring connections from the blower (press the tabs and pull)
- remove the gas valve wiring located behind the blower
- Unplug the HV cable from the DSI
- Remove the gas connection at the top isolating the unit's gas supply from the building
- remove phillips screws to remove the aluminum gas fitting at the top the unit
- remove 4 allen screws to remove the aluminum gas adapter fitting
- remove two plastic taps on top of the cabinet to access the screws securing the blower
- remove 4 screws securing the blower from the top using a long screwdriver
- remove the entire blower gas valve assembly from the unit
- remove the gas valve 3 torx screws
- install the new gas valve on the blower 3 torx screws
- reverse process to assemble the blower back to the heater
- ensure the gasket is installed between the blower and the top housing
- Install the blower gas valve using 4 screws and a long screw driver
- Install the aluminum gas adapter on top of the gas valve (ensure the o-ring is in place)
- Install the gas fitting and secure it using 4 screws to the cabinet
- Install the building gas supply
- Install the blower wiring, HV cable and gas valve wiring
- turn gas supply back on and check for any gas leaks
- turn water on and plug the heater to the outlet

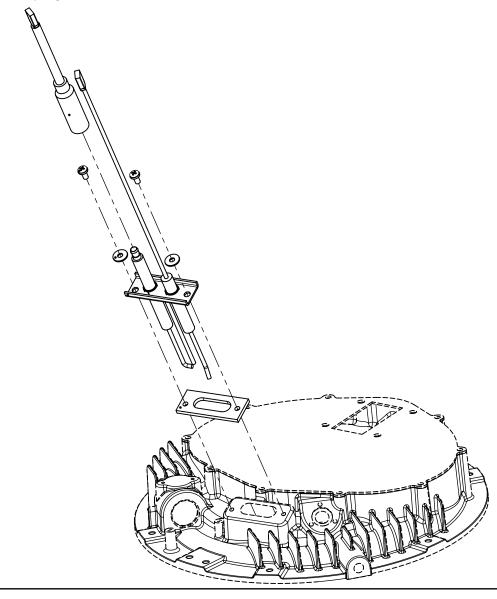
Blower/Gas Valve Exploded View



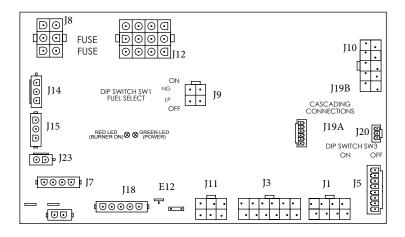
ELECTRODE REPLACEMENT

The electrode is located on the top of the heat exchanger

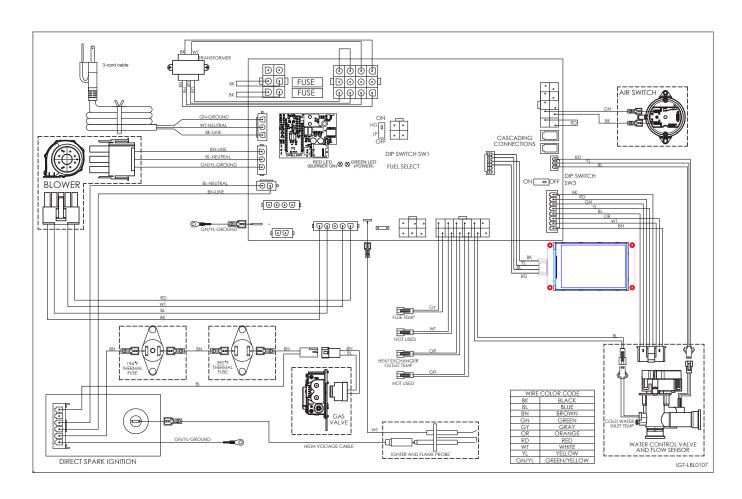
- Shut off the gas to the heater
- Shut off power to the heater by unplugging the unit from the 120 VAC outlet
- remove the front panel (three screws at top and three at bottom)
- Unplug the display cable from the pcb (press plastic tab and pull)
- lift up and remove the front display bracket
- Unplug the HV cable from the electrode
- Unplug the electrode connection from the controller at connection E12
- Remove the 2 screws & washers securing the electrode
- Remove electrode from HEX assembly.
- Insert new electrode into the HEX assembly, careful to use new probe hole seal
- Fasten the electrode with the 2 screws with washers. Verify that the yellow/green wire is attached beneath the right hand screw.
- Connect the electrode to the controller at connection E12
- Connect the HV cable to the electrode
- turn gas supply back on
- turn water on and plug the heater to the outlet



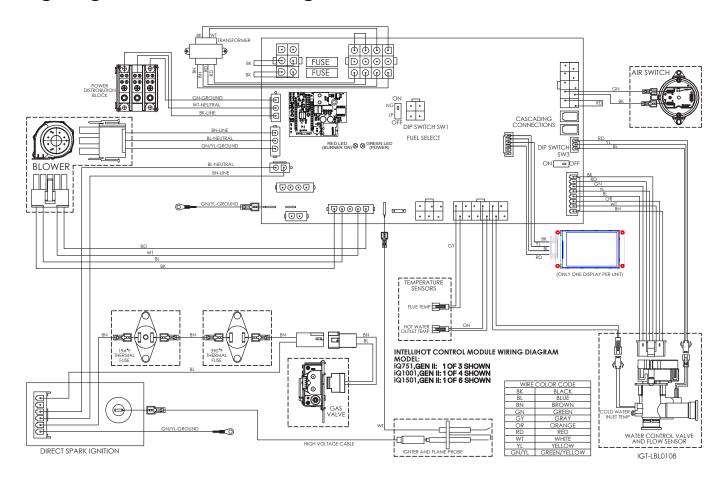
Controller Pin Layout



Wiring Diagram (all wall-hung units)



Wiring Diagram (all floor-standing units)



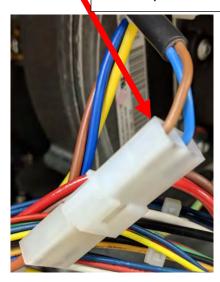
Gas Valve



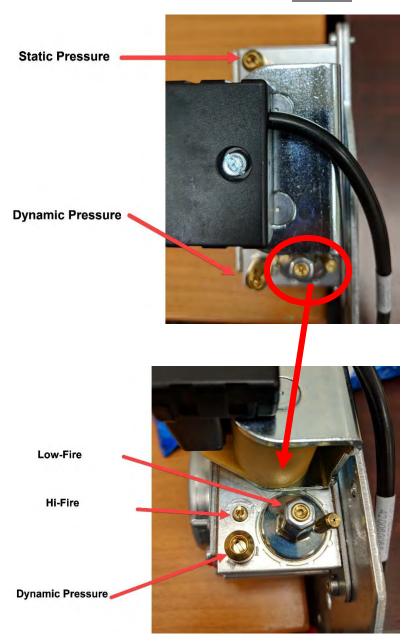
Gas Valve



Blue Gray 120V AC

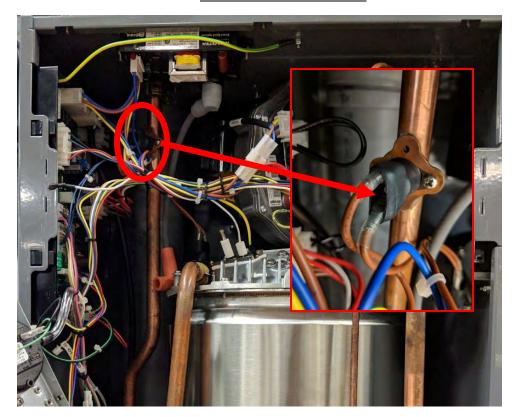


Gas Valve



Hi-Fire uses flat screwdriver. Low-fire uses T20 Torx screwdriver.

Resettable overheat switch

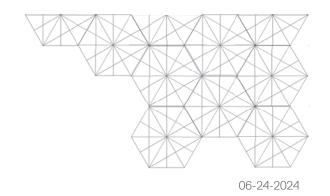




Resettable overheat switch











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