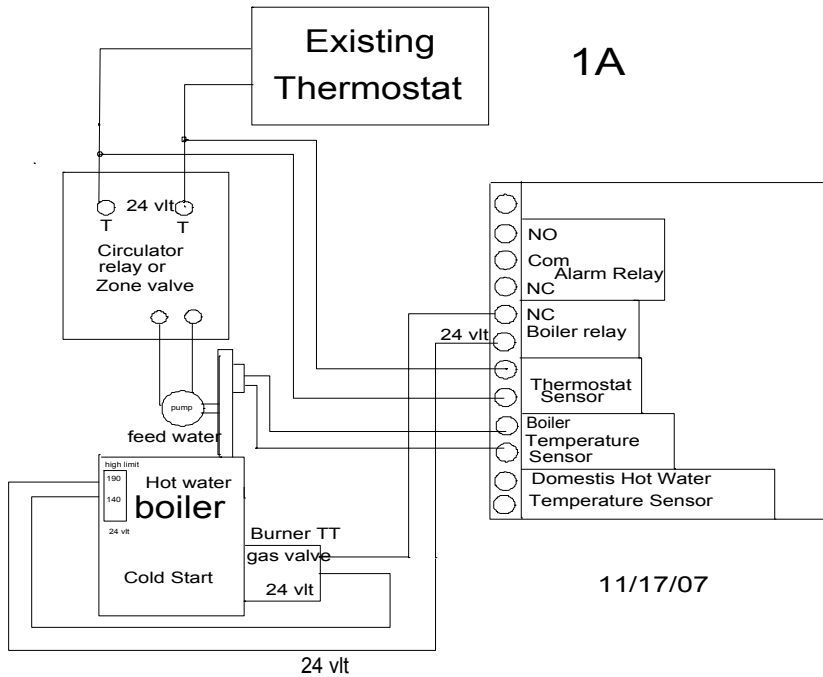


Hot water boiler



1. All connections are 24 volt AC. Verify all planned connections at TT, zone valves, thermostat connections, before turning off power.
2. Turn off all power to the boiler and circulation pumps at the circuit breaker. This will avoid accidental injury, or short circuits.
3. Locate and attach Exquisite Heat control box in a safe dry elevated location. Consider the wiring runs from the boiler, the location of 24 volt power to the control source, and the convenience of service and adjustment with lap top computer. The lighted signals from the control box should be visible to any one entering the boiler room. This way you can do telephonic diagnostics for scheduling service.
4. Install thermostatic 8 wire cable from the boiler to the control box. Leave plenty of extra wire for final wiring to the boiler and the control.
5. Attach the boiler temperature sensor on the hot water feed out pipe as close to the top of the boiler as comfortable. Insulate sensor and secure with wire ties. Attach to the brown and yellow wires in the 8 thermostat cable.
6. Feed a two wire thermostat cable to the TT jumper on the Oil burner assembly or in series with the 24 volt power to the gas valve. Secure to the existing cable to the burner control module.

Be sure to leave enough slack in order to facilitate burner service and maintenance. Keep wires secure away from high heat during burner operation. Remove the oil burner TT jumper wire and attach two wire cable to TT on the burner control. For gas models attach wires in series with 24 volt gas valve actuator circuit. Connect this wire to the blue and white wires in the thermostat 8 cable.

7. Attach two wire thermostat cable to the TT low voltage connection on the circulator relay of choice or zone valve for analysis of thermostat demand. Secure this cable back to the 8 wire thermostat cable and attach to red and green wires. Use appropriate wire nuts or pressure fasteners to secure all connections at this point. The remaining wires are available for domestic Hot water application if needed.
8. For Domestic Hot water applications in the event that a tankless coil or separate storage tank is used attach a second thermistor and secure to the hot supply side near the boiler going to the storage tank. In the case of a tankless coil, place the sensor on the tankless out pipe to the house, near the tankless coil exit (hot side). Dress this wire back to the thermostat cable to the control box to the remaining wires.
9. Neatly dress the wires, to avoid heat which could damage wire insulation, any flue pipes, over any piping that could be serviced at a later point, away from high voltage lines that could create interference with control signals, and secure to avoid fouling with other systems in the area.
10. Check and recheck all wires, connections, and colors of connections. Make sure all sensors are secure with wire ties, and insulation. Tape the wire harness after the full installation is completed and working properly. Triple check all wiring and connections to avoid a call back. If you use a standard ized installation procedure, you will reduce trouble calls and the need to revisit the site.
11. Place the wires to the controller through the box openings provided for convenient wiring within the box. Estimate the wire lengths needed for the control and prepare your wire stripping for final control wiring. Attach your wiring:
 - A. Attach the boiler thermistor sensor wires (brown & yellow) to the Variable Resistor “VR 1” terminals .
 - B. Attach the TT wires from the circulator relay (red & green) to the Thermostat current Opt coupler connections at “OPTO” terminals.
 - C. Attach the Boiler Cut Off wires from TT on the burner (Blue & White) to the “CUT OFF” terminals.
 - D. If used attach the Domestic Hot water thermistor wires to the “VR 2” terminals.
 - E. Attach 24 volt AXC source wires to “24VAC” .
 - F. If required attach “NO or NC” connections to the “ALARM” terminals. The center terminal is common. This relay can be used with a local light, alarm system, or local bell. External power must be provided to operate alarm circuit. This relay is simply a No or NC Relay when the boiler temperature sensor goes above the High safety set in Menu or below the low temp safety set in menu. The use of the alarm relay is optional.

- G. Some models come with a 9 Volt DC transformer and input which is available on some earlier models.
 - H. An isolation relay is provided on the 24 volt powered version, in order to facilitate Isolation for four wire electronic thermostats. When used 24 volt AC is available by adding the power wires to the thermostat to the "24VAC" terminals. The thermostat wires with 24 volts are attached at the relay "THERMOSTAT" terminal. The red and green wires would be attached to the "TTBOILER" terminals. Data for the Opto coupler would be transmitted within the board from these terminals. The red and green need only be attached to one of the terminal sets.
 - I. Connect and install the turn off switch in series with your power supply. This is provided to disconnect the control from the heating system in case of system failure or loss of heat. When disconnected the switch removes the control from the heating system and returns the heating system to previous mechanical control. If the heating system is not operating after the switch is off, call the heating service for the boiler. Be sure to locate the switch where the system operator and service personnel can turn off the Exquisite Heat control. Be sure to properly label the switch. The switch and label are provided.
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- 12. For custom programming, attach the RS 232 cable to the cable connection on the Board. Attach the other end of the RS 232 cable to the Lap top cable out.
 - 13. Recheck all wiring.
 - 14. Power up Exquisite Heat.
 - 15. Power up the Boiler at the Circuit breaker.
 - 16. Turn on the Boiler service switch.
 - 17. Activate Exqheat Terminal program on the lap top.
 - 18. Type "menu" Enter. You now have the ability to edit all parameters which you received at the factory training session. All limits can be adjusted. Refer to your programming manual for proper adjustment.
 - 19 For further guidance call your area supervisor or the factory at 914-588-4791. You can e-mail service at Exqheat@prodigy.net with your inquiries.
 - 20. When finished, remove the terminal cable from the control box and fix the controller onto the standoff lugs provided.

Limited Five-Year Warranty

The seller warrants its product against defects in material or workmanship for a period of 5 years from the date of manufacture. The liability of the seller is limited, at its option, to repair, replace or issue a non-case credit for the purchase prices of the goods which are provided to be defective. The warranty and remedies set forth herein do not apply to any goods or parts thereof which have been subjected to misuse including any use or application in violation of the Seller's instructions, neglect, tampering, improper storage, incorrect installation or servicing not performed by the Seller. In order to permit the Seller to properly administer the warranty, the Buyer shall: 1) Notify the Seller promptly of any claim, submitting date code information or any other pertinent data as requested by the Seller. 2) Permit the Seller to inspect and test the product claimed to be defective. Items claimed to be defective and are determined to by the Seller to be non-defective are subject to a 60.00 per hour inspection fee. This warranty constitutes the Seller's sole liability hereunder and is in lieu of any other warranty expressed, implied or statutory. Unless otherwise stated in writing, Seller makes no warranty that the goods depicted or described herein are fit for any particular purpose.

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