

Installation:

Warning: Due to risk of electric shock, a licensed electrician should install this unit in strict compliance with the National Electric Code and any state or local code which may apply. All plumbing connections shall be 1 ½" schedule 40 PVC minimum.

1. Assemble and install heater/pump system (AT-55 or CZ-11 only) according to the instructions included with each system, but do not connect the pump to its power source. Instead, connect the power source (120V, 15 Amp, GFCI circuit) to the terminal block inside the control box (gray) of the Control-O-Matic. The terminals will be physically marked according to the attached wiring diagram. The control box should be mounted in a location near the circulation pump.
2. Locate the remote thermostat assembly in an accessible location near the pump and control box. Connect the load side of the thermostat assembly to the pump motor according to the diagram included with the heater/pump system. (This thermostat assembly now becomes the power source for the pump.) Then plug the line side of the thermostat assembly into the receptacle on the side of the control box.
3. Install the PVC "tee" with thermowell into the suction line, near the pump, and insert the capillary bulb from the thermostat into the thermowell in "tee. *Note: When routing capillary tube and bulb from thermostat to "tee", take special care not to kink the tube.* If the tube is kinked the thermostat will not operate properly. The pump will now be controlled by the water temperature through the operation of the remote thermostat assembly.
4. Install drain and overflow fittings and plumb through the electric drain valve provided, with the centerline of the overflow fitting 4" from the top of the baptistry. Connect electric drain valve to control box by routing numbered low-voltage wires into the control box and connecting them to the corresponding terminals of the terminal block. *Note: The switch on the valve should be in the #1 position for proper operation.*
5. Install the 1" electric fill valve in the water supply line to the small wall fitting provided. ***Note: local codes may require that a back-flow preventer be installed with any system in which the inlet is below the rim.*** Connect the electric fill valve to the control box by routing the low-voltage wires into the control box and connecting to the corresponding terminals of the terminal block.
6. Install the pressure switch assembly through the tank wall with the center of port opening 10" below the top of the baptistry, as shown. *If pressure switch is not at least 4" below the bottom of the overflow fitting, the system will not operate properly.* Connect the pressure switch to the control box by routing low-voltage wires into the control box and connecting to the corresponding terminals of the terminal block.
7. When water reaches the proper level, the pressure switch will turn off the fill valve and activate the pump.
8. Install the remote control switch in a convenient location with the green light at the top. Connect the switch to the control box by routing the low-voltage wires into the control box and connecting to the corresponding terminals of the terminal block.



CONTROL-O-MATIC

AUTOMATIC BAPTISTRY CONTROL SYSTEM

Installation and Operating Instructions

Operation:

This system is designed to operate in conjunction with Fiberglass Specialties Baptistry heating systems, Model AT-55 or CZ-11. Attempts to install or operate the Control-O-Matic system with other models could result in damage to the one or both systems. Please read these instructions carefully before you begin.

Before You Begin:

Since the remote thermostat will control the operation of the pump (and thus the entire system), the thermostat on the heater itself should be left in the "High" position (or at least at a level higher than that of the remote thermostat). Use the remote thermostat to adjust the water temperature to the desired level.

Toggle Switch "ON" in up position (toward green light).

Turn the remote toggle switch on, toward the green light. The green light will come on, the fill valve will open, and the drain valve will close. The baptistry will fill until the water reaches about 4" above the pressure switch port. Then the fill valve shuts off, and the pump turns on, if the remote thermostat is calling for heat. The unit will then heat the water to desired temperature and cycle on and off maintaining the temperature set by the remote thermostat.

Toggle Switch "OFF" (center position)

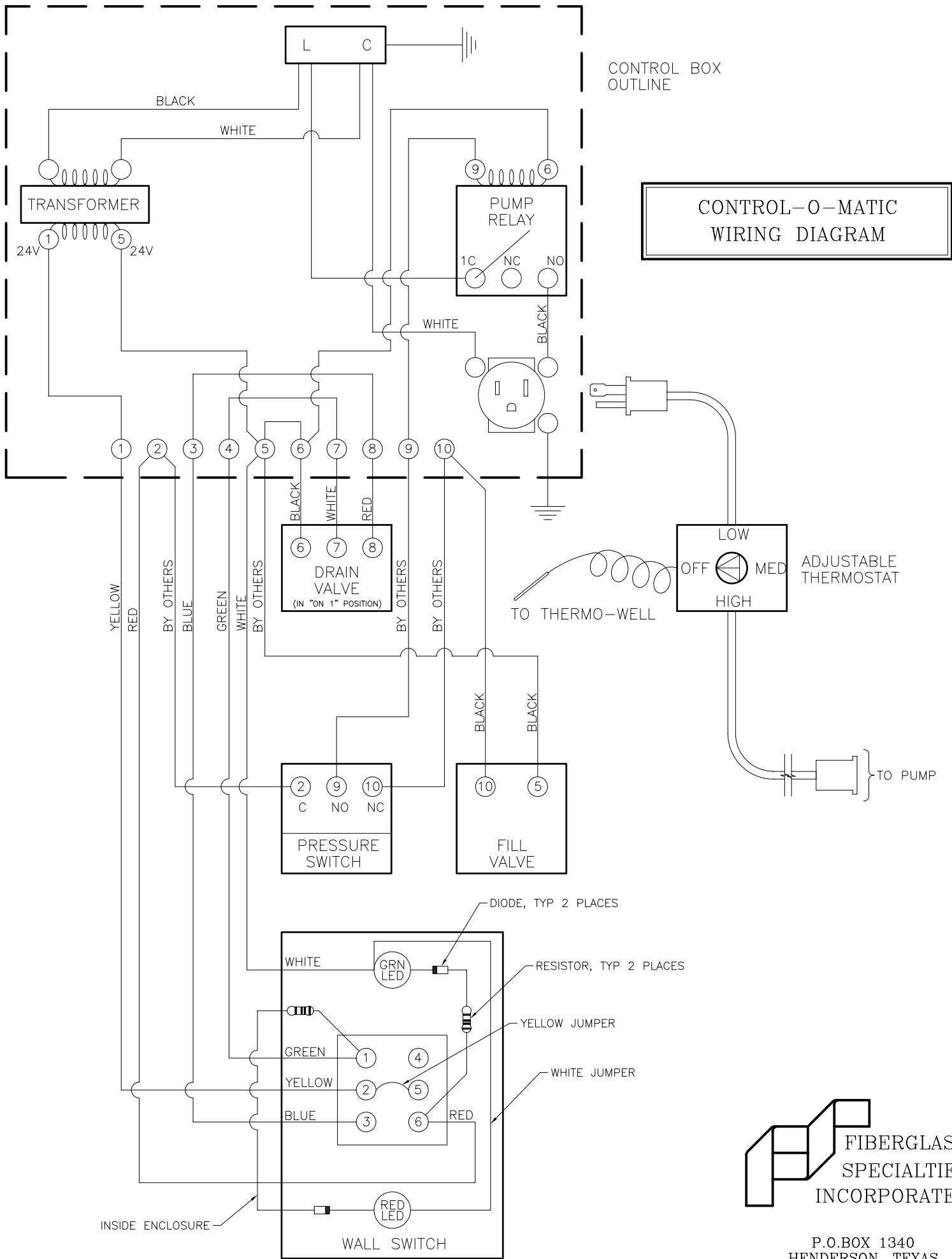
When the switch is in the off position the unit is inoperative, and the system is idle. The drain valve will remain in its last position.

Toggle Switch "ON" in down position (towards red light)

The unit's drain valve will open, to empty baptistry, and all other functions will be shut down.

Note: At certain times the red and green light will both be on when the switch is on, towards the green light. The red light comes on anytime the drain valve is in operation.

Warning: All electric circuits to the heater, pump and control box are live, even with the remote switch in the "OFF" position. Never attempt to service the control box, pump, or heater without first disconnecting all sources of power.



CONTROL BOX
OUTLINE

CONTROL-O-MATIC
WIRING DIAGRAM

ADJUSTABLE
THERMOSTAT

TO THERMO-WELL

TO PUMP

DIODE, TYP 2 PLACES

RESISTOR, TYP 2 PLACES

YELLOW JUMPER

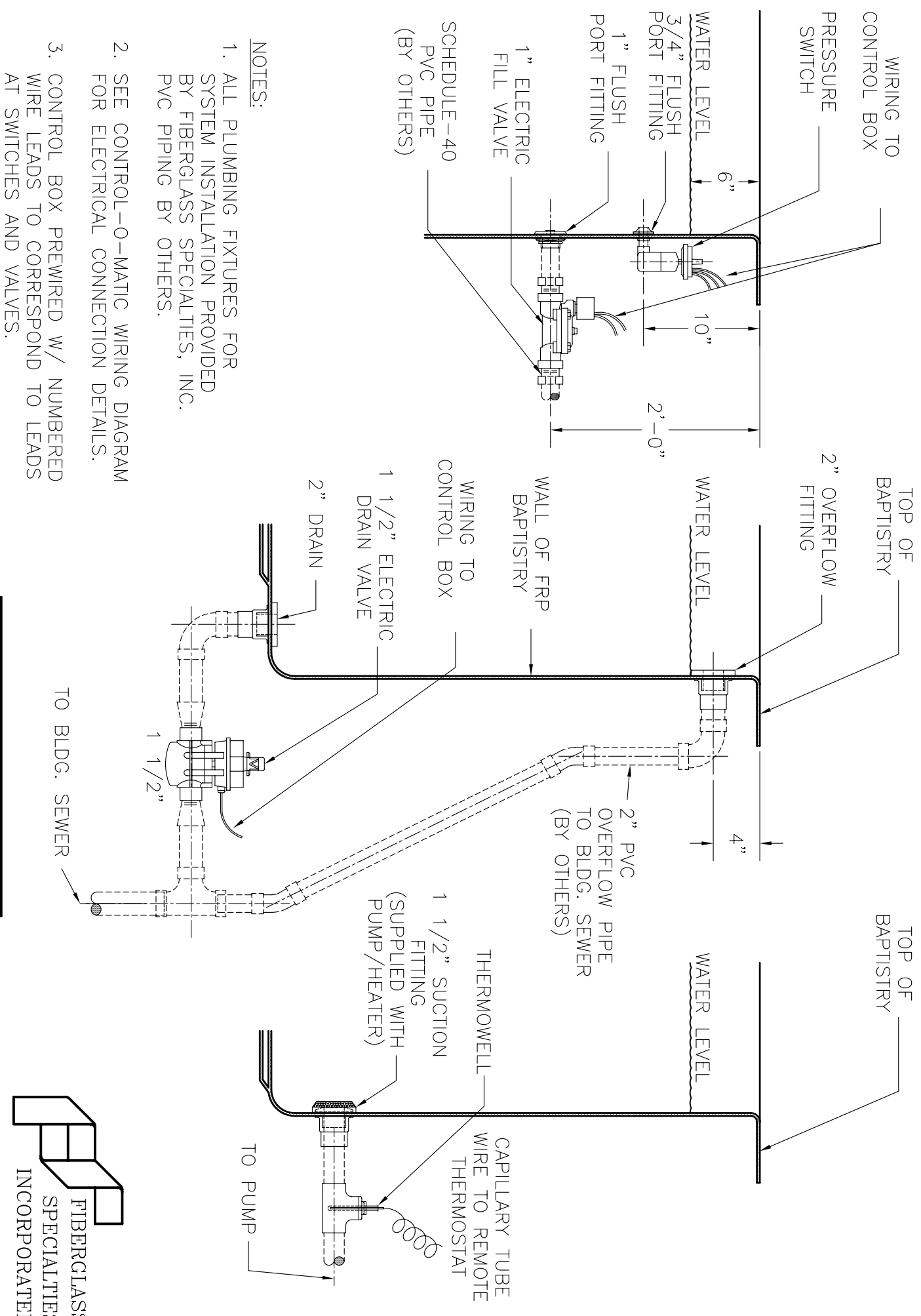
WHITE JUMPER

INSIDE ENCLOSURE



FIBERGLASS
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- NOTES:**
1. ALL PLUMBING FIXTURES FOR SYSTEM INSTALLATION PROVIDED BY FIBERGLASS SPECIALTIES, INC. PVC PIPING BY OTHERS.
 2. SEE CONTROL-O-MATIC WIRING DIAGRAM FOR ELECTRICAL CONNECTION DETAILS.
 3. CONTROL BOX PREWIRED W/ NUMBERED WIRE LEADS TO CORRESPOND TO LEADS AT SWITCHES AND VALVES.

CONTROL-O-MATIC
BAPTISTRY DRAIN SYSTEM

