

**PRESSURE PAK INSTALLATION  
AUTO 480 VOLT**

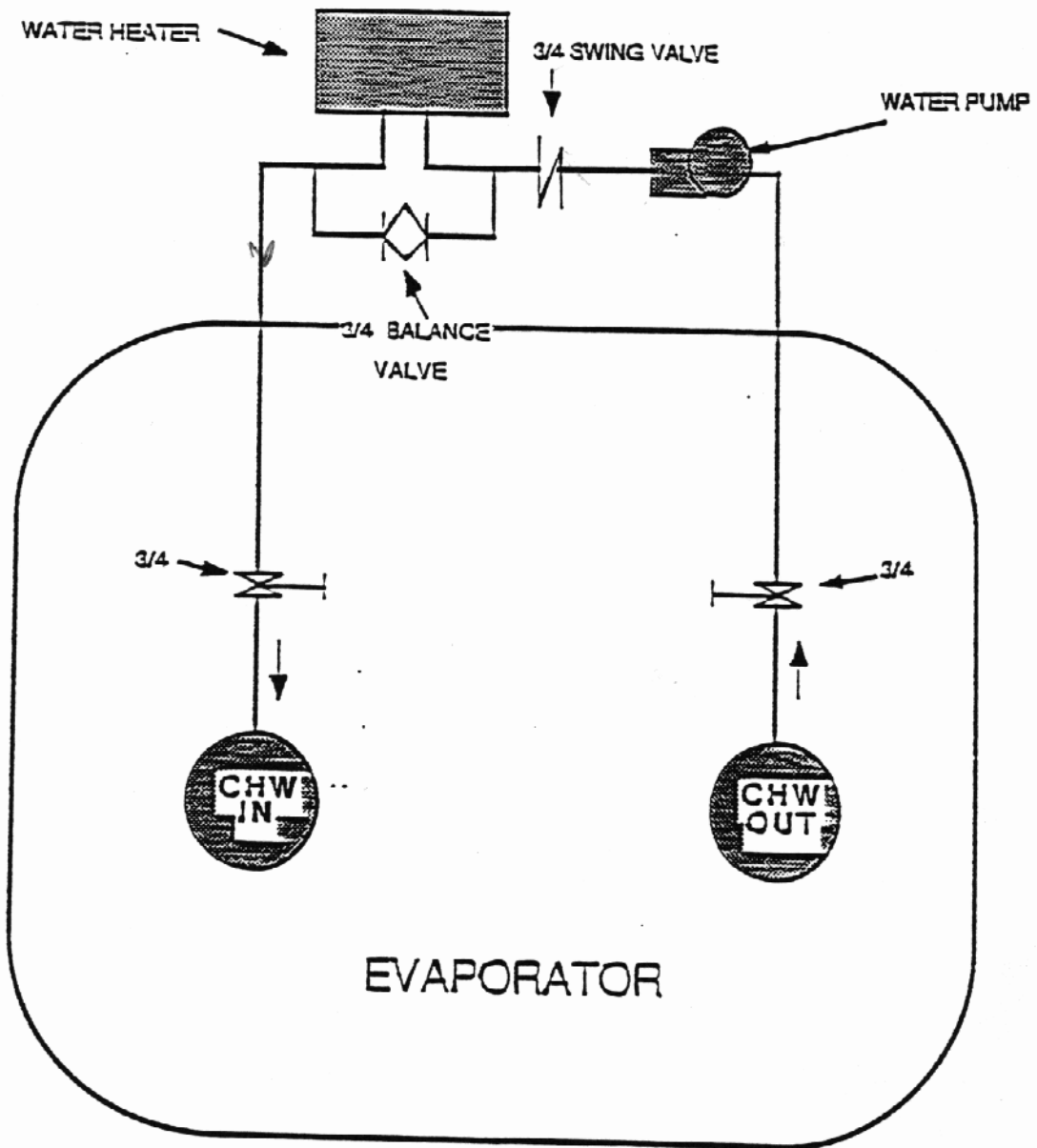
- 1) Install 3/4" gate valves in water box. See flow diagram for proper location.
- 2) Mount pump on end sheet using beam clamp and tie down clamp - See attached picture.
- 3) Make up by-pass tree using:
  - 2 - 90° street ells. 1/2 (5/8)
  - 2 - 90° street ells. 3/4 (7/8)
  - SEE ATTACHED PICTURE 2 - Tee's. 3/4 x 1/2 x 3/4 (7/8 x 5/8 x 7/8)
  - 2 - 2 x 1/2 cu. pipe.
  - 1 - 3/4" Balance valve.
  - 1 - 3/4" Male ADT.
  - 3 - 3/4" Cu. pipe nipples.
  - 1 - 3/4" check valve.
- 4) Make all runs necessary to complete piping.
- 5) Install hot water heater. Note installation instructions of hot water heater.
- 6) Fill loop by opening pump inlet valve first with compression fitting loose on heater and then the return valve - with inlet valve closed. Bleed all air out of loop.
- 7) Have power wiring installed for pump and heater.
- 8) Apply power to pump and heater.
- 9) Set control system in pressure position. Pump should come on.
- 10) With pump on:
  - a) 240 and 277 volt heaters adjust Balance Valve so that Heater Indicator Light comes on.
  - b) 480 volt heaters adjust Balance Valve to a position of 1:00 o'clock [30° from closed].
- 11) Turn control switch to off; pump should stop and heater should turn off.
- 12) Correct pressure connection of Pressure-Pak to condenser.
- 13) System is now ready for operation.
- 14) If unit has "AUTO" position - check operation per attached calibration check.

F. E. Ziffer - 36BE  
MANAGER SERVICE OPERATIONS

## YORK PRESSURE-PAK CALIBRATION

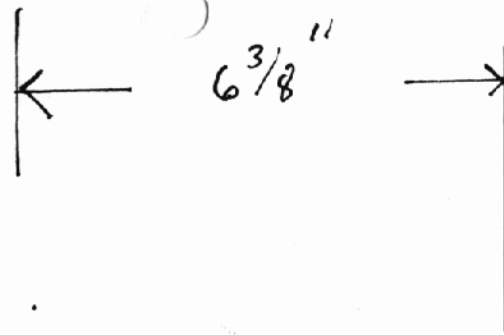
1. Wiring must be connected as follows:
  - L1 - 120VAC hot side of line.
  - L2 - 120VAC neutral side of line.
  - P1 - Switched 120VAC to hot side of pump.
  - P2 - (Neutral side of pump is common with L2)
  
2. Begin this procedure by removing the pressure line from the flare fitting at the top of the control. Power must be applied to the controller, and the front panel switch must be in the "AUTO" position. If the pump is not running at this time, adjust the 15 turn potentiometer, R6, clockwise until the pump is running. Allow the unit to run for five minutes to assure stabilization of voltages.
  
3. Calibration requires a digital meter capable of resolving 0.001 volt D.C. (Beckman 310), Fluke 3020, or any equivalent). Set-up meter to read 2.000 volts D.C. full scale, and connect the negative (-) lead to the Black test point (TP3) on the circuit board.
  
4. With 120VAC power still applied to the controller, connect the positive (+) lead to the White test point (TP1) on the circuit board. With nothing connected to the pressure port (flare connection) at the top of the controller, record the reading on the voltmeter. A typical reading would be 1.005VDC. This is the zero-pressure signal voltage, and will remain constant with no pressure applied - regardless of changes in atmospheric pressure.
  
5. Move the positive (+) lead to the Yellow test point (TP2) on the circuit board. With a pocket screwdriver, adjust the 15 turn pot, R6, so that the meter displays 18 millivolts (0.018V.) higher than the voltage recorded in Step 3. Typically this might be  $1.005 + .018 = 1.023\text{VDC}$ .
  
6. The controller is now calibrated. Remove your test leads and connect the copper tubing from the condenser shell to the flare connection on the top of the controller.

SYSTEM AND COMPONENT DIAGRAM

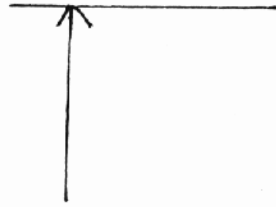


TWO AND FOUR PASS CHILLERS

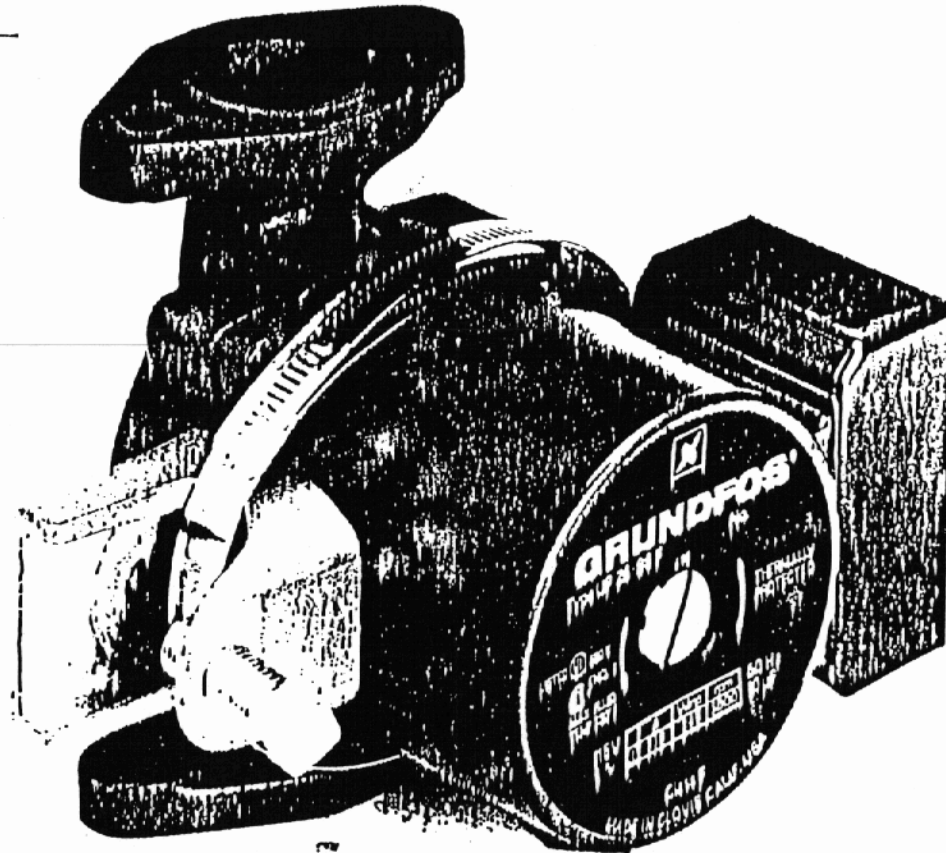
WT = 11lbs

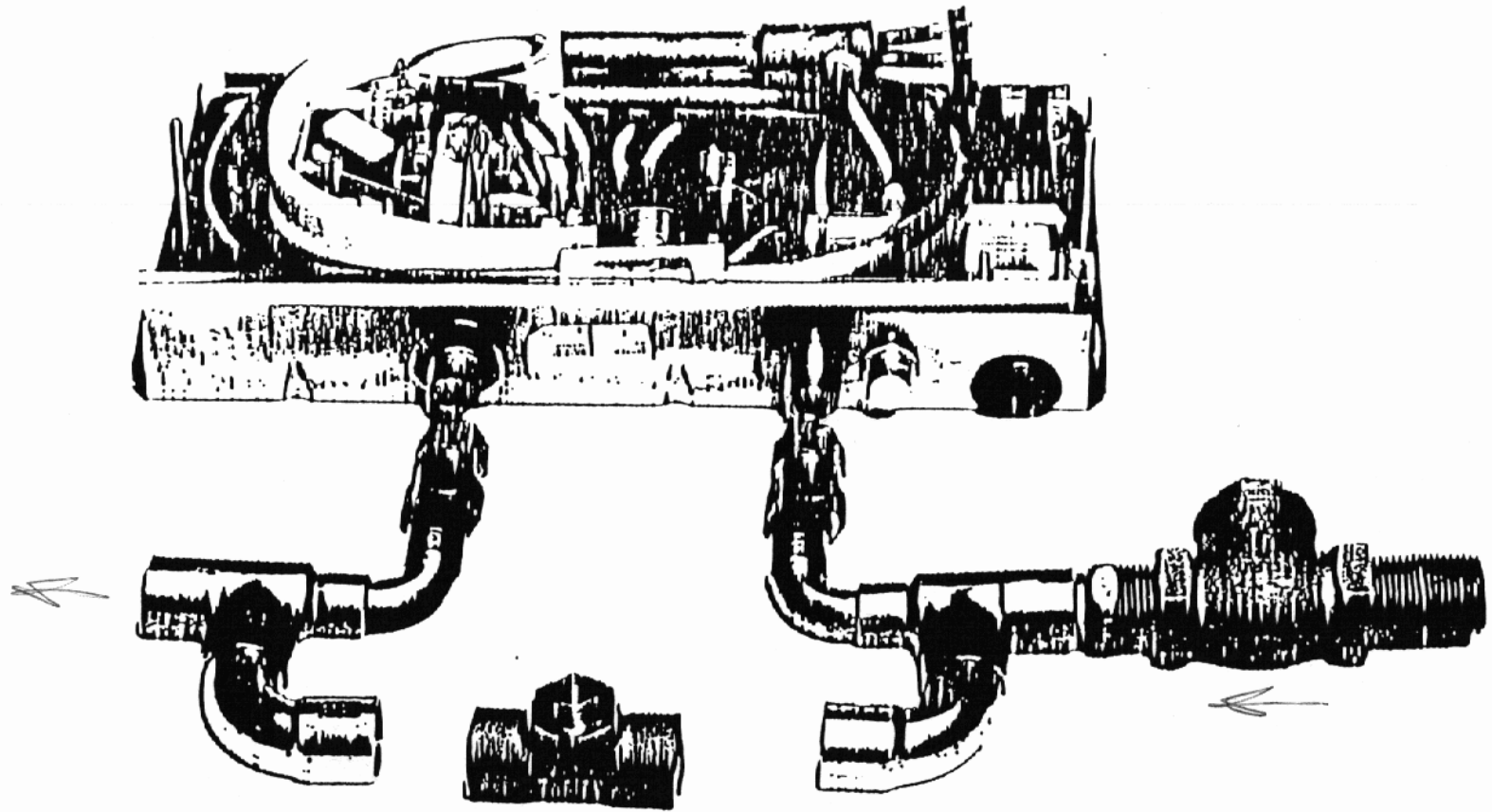


6 3/8"



6 1/2"





## HEATER INSTALLATION

### WIRING:

ELECTRIC CABLE CAN BE FED THROUGH THE  
BACK OR BOTTOM OF HEATER UNIT.

### BREAKER SIZE:

40 AMP. = 240 VOLT

25 AMP. = 277 VOLT

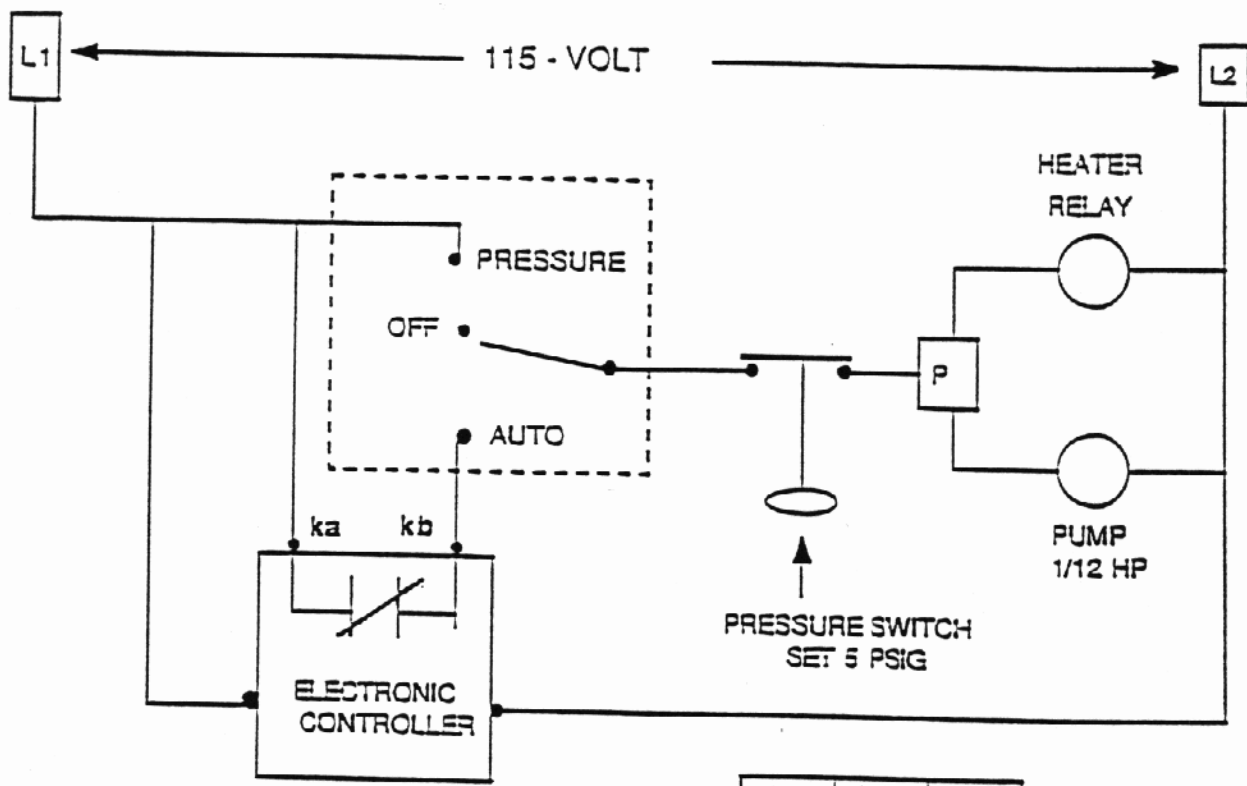
25 AMP. = 480 VOLT

### PLUMBING:

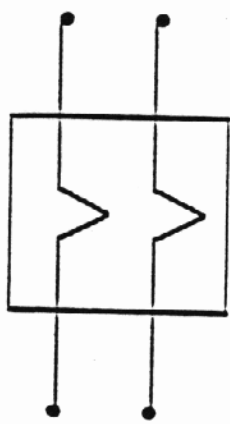
USE TEFLON TAPE TO MAKE CONNECTIONS TO  
HEATER. DO NOT USE PIPE DOPE.

USE ATTACHED PIPING DRAWING.

# THE YORK PRESSURE PAK WIRING DIAGRAM 480 VOLT HEATER

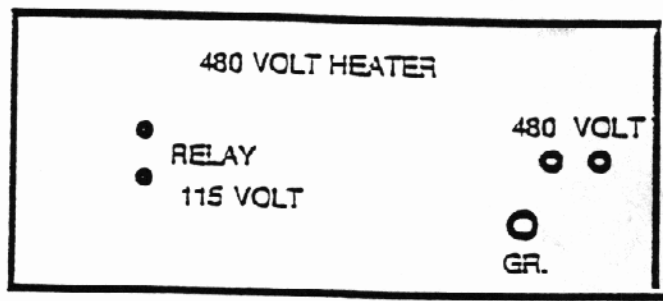
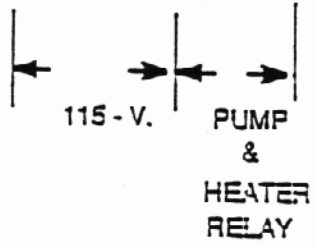
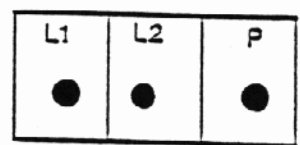


480 VOLT, 25 AMP



25 AMP BREAKER  
OR FUSE

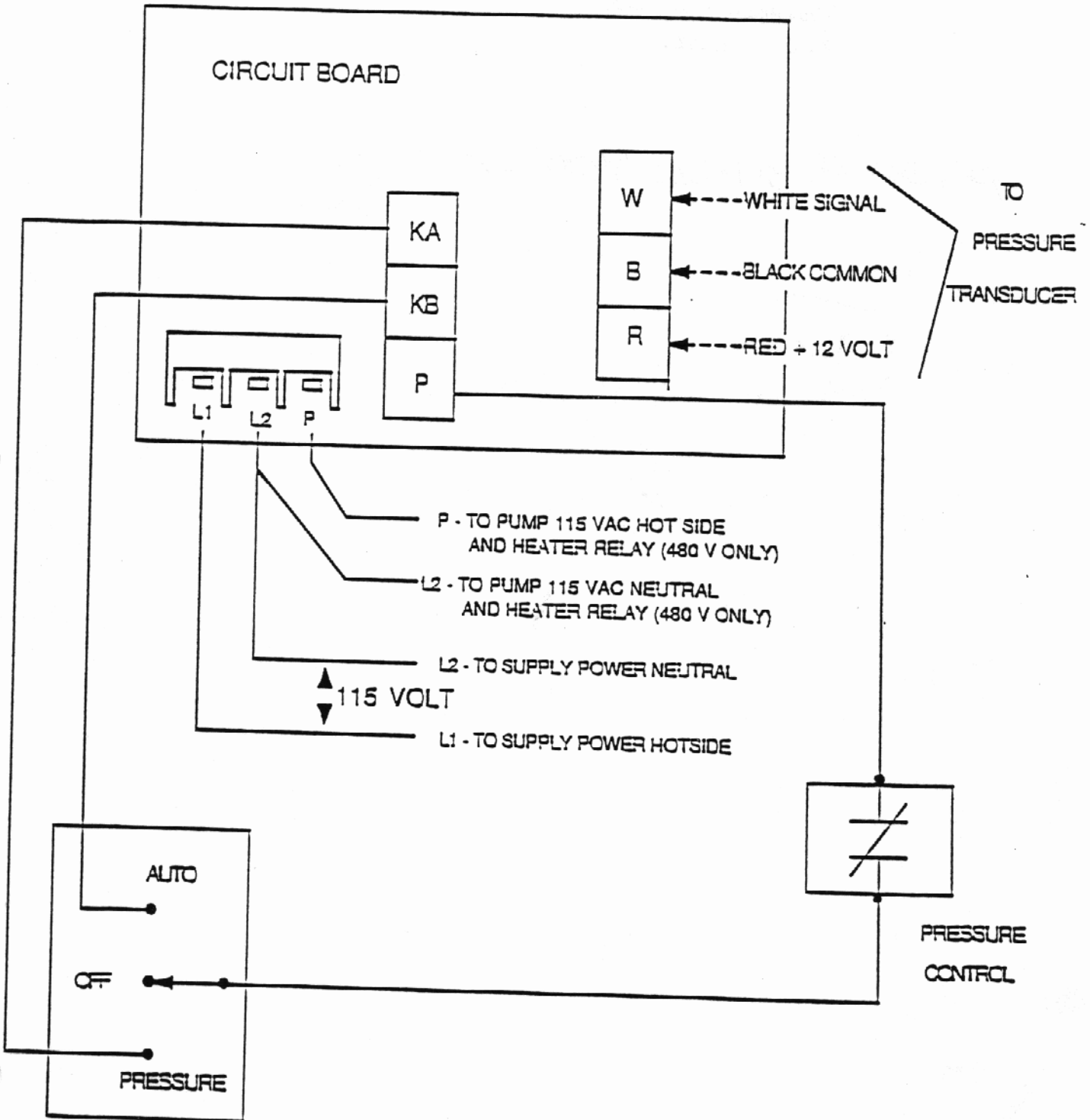
HEATER



# THE YORK PRESSURE PAK

## CONTROL

115 VOLT / 240 & 277 & 480 VOLT HEATER



CHARLOTTE 704-598-0000 BEN BLEECKER

L.P. TRANSUCER 954-00006-128

CONTROL BOARD 954-00000-127

LINE FILTER 1N83 CORCOM

TRANSFORMER & BLUE CAP.  
BASE DISCONNECT.

YORK INDY OFF. 317-622-9000 EXT 18 (14)  
BRANDON

