

Sequence of operation

- 1. 120 vac from main panel to on/off switch. On/off switch closes.
- 2. 120 vac goes to contacts on 12 vdc relay.
- With water present in out put side of water heater pipes, a ground is supplied to the coil of the 12 vdc relay and the relay closes.
- 120 vac then goes through the contacts of the
 12 vdc relay contacts to the ECO (electrical cut off)
- 5. From the ECO to the thermostat.
- 6. From thermostat to the coil of the 120 vac heater coil.

120 vac

- From the main breaker panel, 120 vac travels to on/off switch with red light.
- 2. 120 vac connects to contacts on 12 vdc relay.
- 3. From contacts on 12 vdc relay to ECO.
- 4. From ECO to thermostat.
- 5. From thermostat to coil of 120 vac heater.

12 vdc

- 1. +12 vdc (black wire) to one side of 12 vdc relay coil.
- 2. Ground (red wire) from 12 vdc relay coil to sensor in elbow of water heater out put pipe.