



## Electric Boiler and Modulating Plenum Heater SSR Relay Troubleshooting

**Call for heat, circuit board lights come on but no heat or insufficient heat. Try the following:**

1. Check amp draw at circuit breakers. If amp draw is less than rating on label, continue to step 2. If amp draw is correct on boiler check pump operation, confirm system design, heat loss, boiler sizing, system water level, etc. On plenum heater check air flow, confirm system design, heat loss, etc.
2. Set volt meter to DC, check for control voltage from circuit board to solid state relays. Make sure + probe on meter to + terminal (A1) on SSR and – probe on meter to – terminal (A2) on SSR. If no DC voltage to solid state relays, check wiring harness connection to circuit board. If 24 volts DC at solid state relay, check line voltage at solid state relays. Set meter to volts AC and put one probe on L1 and one probe on T1. If meter reads zero voltage, continue to step 3. If meter reads 240 VAC, SSR is not closing. If SSR is 25 amp marked RS1A48D25S48, change all solid state relays in boiler.
3. Turn OFF circuit breakers. Check for continuity at boiler or plenum heater elements. If no continuity, change element.

