4.2 GENERAL TROUBLE SHOOTING

GENERAL TROUBLESHOOTING CHART FOR 2-STAGE SERIES EQUIPPED WITH MICRO 60U24 CONTROL		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Thermostat closed. - NO LED FLASH CODE	1. Blown fuse. 2. Faulty thermostat. 3. Disconnected wire. 4. No 24 volt signal.	1. Replace. 2. Replace. 3. Repair. 4. Interrupt 120 volt supply, LED will flash once if 24 volt is present.
Thermostat closed. - LED CODE STEADY ON	1. Internal fault in circuit control module.	1. Replace.
Thermostat closed. - LED CODE 1 FLASH	1. Faulty glo-bar. 2. Faulty flame sensor. 3. Gas valve not opening. 4. Gas orifice plugged. 5. Restriction in main burner.	1. Replace. 2. Replace. 3. Replace. 4. Remove, clean and reinstall. 5. Remove, clean and reinstall.
Thermostat closed. - LED CODE 2 FLASHES	1. Burner pressure switch fault. 2. Burner switch bypassed.	1. Replace. 2. Remove jumper wires.
Thermostat closed. - LED CODE 4 FLASHES	1. Wire disconnected on valve. 2. Gas valve fault. 3. Flame rod fault.	1. Reconnect. 2. Replace. 3. Replace.
Heater Operating - TUBE BOWING	1. Insufficient combustion air. 2. Overfired. 3. Ensure exchangers have room to expand. 4. Heater not supported properly. 5. Reflectors not positioned properly.	1. Check intake duct for blockage and sizing. 2. Check gas pressure. 3. Re-install vent connection. 4. Re-position hangers or chains. 5. Re-position.
Heater Operating - VENT CONDENSING	1. Stack length too long. 2. Light gauge flue pipe used. 3. Uninsulated vent pipe running through cold space. 4. Negative pressure in building. 5. Common vented heaters installed with individual thermostats.	1. Shorten stack. 2. Minimum 26 Ga. Required. 3. Insulate vent. 4. Install combustion air intake. 5. Install one thermostat.
Odor or fumes in space.	1. Vaporized solvents decomposing when contacting radiant tubes. 2. Lift trucks. 3. Loose tube connections.	1. Install exhaust fan at ceiling. 2. Install exhaust fan and repair. 3. Tighten to 50-60 lb.-ft.