

4.5 DBS Series General Troubleshooting Chart

SYMPTON	POSSIBLE CAUSE	CORRECTIVE ACTION
Thermostat closed. - NO FAN	<ol style="list-style-type: none"> 1. Blown fuse. 2. Defective thermostat. 3. Disconnected wire. 4. Defective fan. 	<ol style="list-style-type: none"> 1. Replace. 2. Replace. 3. Repair. 4. Replace.
Fan Operates - NO INDICATOR LIGHTS - NO HEATER OPERATION	<ol style="list-style-type: none"> 1. Blocked air intake. 2. Burner switch wire disconnected. 3. Burner switch defective. 4. Burner switch sensing tubes plugged. 5. Thermal fuse blown. 6. Control box lid loose or leaking. 	<ol style="list-style-type: none"> 1. Remove all foreign matter in intake air stream. 2. Repair. 3. Replace. 4. Remove, clean and install 5. Replace and check pressure switch operation. 6. Secure or reseal.
Fan Operates Burner Switch Light Operates - NO EXHAUST SWITCH LIGHT - NO HEATER OPERATION	<ol style="list-style-type: none"> 1. Exhaust vent blocked. 2. Exhaust switch wire disconnected. 3. Exhaust switch defective. 4. Excessive wind pressure on vent cap. 5. Baffle location wrong. 	<ol style="list-style-type: none"> 1. Remove all foreign matter in vent. 2. Repair. 3. Replace. 4. Verify cap, extend or relocate (see Flue Venting) 5. Consult DBS Manual.
Fan Operates Indicator Lights Operate - NO GLOBAR	<ol style="list-style-type: none"> 1. Glo-bar broken. 2. Circuit board defective. 3. Wiring harness disconnected. 	<ol style="list-style-type: none"> 1. Replace. 2. Replace. 3. Reconnect or replace.
Indicator Lights Operate Glo-Bar Operates - NO GAS VALVE	<ol style="list-style-type: none"> 1. Circuit board defective. 2. Gas valve defective. 3. Wire disconnected. 	<ol style="list-style-type: none"> 1. Replace. 2. Replace. 3. Reconnect.
Glo-Bar Operates Gas Valve Operates - NO IGNITION	<ol style="list-style-type: none"> 1. Blocked gas orifice. 2. Low gas pressure. 3. Low glo-bar surface temperature. 	<ol style="list-style-type: none"> 1. Remove and clean. 2. Provide required gas pressure. 3. Replace - ensure a clean air supply.
Gas Valve Operates Ignition Occurs - HEATER CYCLES OFF - GOES INTO LOCKOUT	<ol style="list-style-type: none"> 1. Globar not sensing flame. 2. Heater not grounded. 3. Electrical supply service panel not grounded. 4. Gas valve defective. 5. Circuit board defective. 	<ol style="list-style-type: none"> 1. Replace. 2. Locate and repair. 3. Locate and repair. 4. Replace. 5. Replace.
Tube Bowing	<ol style="list-style-type: none"> 1. Insufficient combustion air. 2. Overfired. 3. Ensure exchangers have room to expand. 4. Heater not supported properly. 5. Reflectors not positioned properly. 	<ol style="list-style-type: none"> 1. Check intake duct sizing and clean. 2. Check gas pressure and orifice size. 3. Re-install vent connections. 4. Re-position hangers or chains. 5. Re-position.
Vent Condensation	<ol style="list-style-type: none"> 1. Stack length too long. 2. Light gauge flue pipe used. 3. Uninsulated vent pipe running through cold space. 4. Negative in building. 5. Common vented heaters intalled with individual thermostats. 	<ol style="list-style-type: none"> 1. Shorten stack. 2. Minimum 26 Ga. required. 3. Insulate vent. 4. Install combustion air intake. 5. Operate both common vented heaters on one thermostat.
Odour or Fumes in the Space	<ol style="list-style-type: none"> 1. Vaporized solvents decomposing when contacting radiant tubes. 2. Tow motors. 3. Loose tube connections 	<ol style="list-style-type: none"> 1. Install exhaust fan at ceiling. 2. Install exhaust fan and repair. 3. Tighten to 50-60 lb.-ft..