

ISSUE	POSSIBLE CAUSE	SUGGESTED REMEDY
UNIT WILL NOT START	<ol style="list-style-type: none"> 1. Main circuit breaker tripped 2. Main disconnect—blown fuse 3. Power lines loose at terminal or broken wire 	<ol style="list-style-type: none"> 1. Reset breaker 2. Check and replace fuse 3. Replace or repair wiring
COMPRESSOR WILL NOT START	<ol style="list-style-type: none"> 1. Compressor fuses blown 2. Faulty wiring 3. Control not set in accordance with chart 4. On-Off switch defective 5. Defective temperature control 6. Defective suction-discharge control 7. Defective freeze-up protection control 8. Defective oil pressure control 9. Compressor external overload protector defective 10. Defective internal overload protector or sensor 11. Defective control module on compressor (solid state protection model compressors only) 12. (Optional) High temperature lock-out control tripped 13. Grounded compressor 	<ol style="list-style-type: none"> 1. Replace fuses 2. Check for loose connection or broken wire 3. See charts on pages 26 4. Replace 5. Replace control 6. Replace control 7. Replace control 8. Replace control 9. Replace overload 10. Replace compressor 11. Replace module 12. Reset control 13. Replace compressor
	SINGLE PHASE COMPRESSORS	
	<ol style="list-style-type: none"> 14. Defective capacitor relay 15. Defective start or run capacitor 	<ol style="list-style-type: none"> 14. Replace relay 15. Replace capacitor
SYSTEM OR BY-PASS PUMP WILL NOT START	<ol style="list-style-type: none"> 1. Faulty wiring 2. Defective contactor 3. Pump fuses blown 4. Defective On-Off switch 5. Defective motor internal overload 6. Mechanical shaft seizure 	<ol style="list-style-type: none"> 1. Check for loose or broken wires 2. Replace contactor 3. Replace fuses 4. Replace switch 5. Replace motor 6. Replace pump assembly
	SINGLE PHASE MOTORS	
	<ol style="list-style-type: none"> 7. Defective motor capacitor 	<ol style="list-style-type: none"> 7. Replace capacitor
FAN WILL NOT START	<ol style="list-style-type: none"> 1. Faulty wiring 2. Defective contactor 3. Fan fuse blown 4. Defective motor internal overload 5. Mechanical shaft or bearing seizure 6. Loose or broken fan belt 	<ol style="list-style-type: none"> 1. Check for loose or broken wires 2. Replace contactor 3. Replace fuses 4. Replace motor 5. Replace or repair shaft or bearings 6. Tighten or replace belt
	HEAD PRESSURE CONTROL MODELS	
	<ol style="list-style-type: none"> 7. Defective pressure staging switch 	<ol style="list-style-type: none"> 7. Replace switch

ISSUE	POSSIBLE CAUSE	SUGGESTED REMEDY
COMPRESSOR GOES OFF ON HIGH PRESSURE DURING NORMAL EQUIPMENT OPERATION	AIR COOLED	
	1. Dirty condenser	1. Clean
	2. Fan motor fuses blow	2. Replaces fuse
	3. Fan motor fails	3. Replace motor
	4. Fan motor belt failure	4. Replace belt
	5. Fan shaft or bearing seizure	5. Replace or repair shaft or bearing
	6. Exhaust duct clogged	6. Remove and clean
	7. Filter dryer clogged	7. Replace dryer
	8. Restriction in refrigerant lines	8. Find restriction and correct
	9. Air intake to condenser restricted	9. Remove restriction
	10. Control setting too low	10. Set in accordance with chart on page 26
	WATER COOLED	
11. Shortage of coolant to condenser	11. Increase feed	
12. Defective water regulating valve	12. Replace valve	
COMPRESSOR GOES OFF ON LOW SUCTION CONTROL	1. Control settings incorrect	1. Set in accordance with charts on page 26
	2. Pump failure	2. See "Pump Will Not Start" section
	3. Low on refrigerant	3. Check for leaks, repair and recharge
	4. Low on coolant solution	4. Add additional solution
	5. Coolant filter screens on equipment being cooled clogged	5. Remove, clean, and reinstall screens
	6. Restriction in refrigerant lines	6. Find restriction and correct
COMPRESSOR GOES OFF ON OIL PRESSURE	1. Low on oil	1. Check level and add oil
	2. Oil restrainer clogged	2. Remove, clean and reinstall
	3. Oil pump defective	3. Replace oil pump
	4. Defective oil pressure control	4. Replace oil pressure control
	5. Faulty wiring to resistors in oil pressure control	5. Trace wiring in accordance with electrical schematic
	6. Erratic expansion valve	6. Check for dirt on seat of valve, clean and reinstall, replace if defective
COMPRESSOR GOES OFF ON FREEZE-UP PROTECTION	1. Control setting wrong	1. Set in accordance with charts on page 26
	2. Pump failure	2. See "Pump Will Not Start" section
	3. Low on refrigerant	3. Check for leak, repair, and recharge
	4. Low on coolant solution	4. Add additional solution
	5. Coolant filter screens on equipment being cooled clogged	5. Remove, clean and reinstall
	6. Restriction on refrigerant lines	6. Find restriction and correct
	7. Faulty wiring to resistors on oil pressure control	7. Trace wiring in accordance with electrical schematic
COMPRESSOR RUNS CONTINUOUSLY REGARDLESS OF LOADING CONDITIONS	1. Low on refrigerant charge	1. Check for leaks, repair and recharge
	2. Defective low pressure control	2. Replace control
	3. Defective solenoid valve (Will not pump down)	3. Replace valve
	4. Leaky compressor valves	4. Replace valve plates

ISSUE	POSSIBLE CAUSE	SUGGESTED REMEDY
COMPRESSOR SHORT CYCLES	<ol style="list-style-type: none"> 1. Low on refrigerant 2. Liquid line solenoid valve not holding (Model CC-20 Ton and up) 3. Discharge valve leaking on compressor 4. Compressor has ruptured internal safety relief valve 5. Cut-in and cut-out on suction pressure control set too close 	<ol style="list-style-type: none"> 1. Check for leaks, repair and recharge 2. Remove, inspect for particles on seat, clean and reinstall, replace if defective 3. Replace valve plates 4. Replace valve 5. Set in accordance with charts on page 26