

	High head pressure	Low head pressure	No head pressure	High suction pressure	Low suction pressure	No suction pressure	Unit operating in a vacuum	Bubbles in sight glass	Suction line frosting back	Unable to pump down system	Unable to pull vacuum in compressor	Unable to hold vacuum in compressor	Noisy compressor	Unit not refrigerating	unit not defrosting	
X													X			Overcharge of refrigerant
	X			X			X	X						X	X	Shortage of refrigerant
	X						X							X	X	No refrigerant
X																Air through condenser too hot
X																Air flow through condenser restricted
	X			X				X								Air flow through condenser too cold
X													X	X		Air in system
X																Condenser fan blades bent or broken
				X												Air through evaporator restricted
				X			X		X					X		Evaporator needs defrosting
	X									X	X					Compressor discharge valves leaking
			X						X							Compressor suction valves leaking
														X		Too much compressor oil in system
													X			Faulty oil pump in compressor
													X			Loose compressor pulley
													X			Compressor bearing loose or burned out
	X								X	X	X	X	X			Broken outlet valve in compressor
				X										X		Expansion valve bulb lost its' charge
			X					X								Expansion valve bulb improperly mounted
			X					X						X		Expansion valve bulb making poor contact
			X					X								Expansion valve open too much
			X											X		Expansion valve closed too much
			X													Expansion valve needle eroded or leaking
			X	X										X		Expansion valve partially closed by Ice or dirt
			X					X					X			Liquid refrigerant entering compressor
			X		X			X								Restricted line on low side
X						X										Restricted line on high side
				X										X		Restricted dehydrator
				X											X	Evaporator shutter open
			X		X									X		Evaporator shutter stuck closed
		X														Discharge service valve back-seated
				X												Suction Service valve back-seated
	X		X						X		X					Defrost solenoid stuck open
														X		Defrost solenoid stuck closed
														X		Loose or broken electrical connections
X	X	X	X	X	X	X	X	X	X					X		Thermostat, thermometer or gauge out of calibration
								X	X	X						Leaky receiver tank outlet valve

Troubleshooting Chart