

A/C & Refrigeration troubleshooting record.

Location _____ **Technician** _____

1	Unit/Circuit #				
2	Refrigerant Type				
3	Date/Time				
4	Ambient Temp. WB/DB	°F	°F	°F	°F
5	Metering device type (TXV, Piston, Cap tube)				
6	Compressor Suction Pressure		Psi		Psi
7	Calc. Saturation/Dew point of suction pressure		°F		°F
8	Compressor Suction Line Temperature		°F		°F
9	Calculated Compressor Superheat #8-#7		°F		°F
10	Evaporator Suction Pressure (or suct. filter inlet)		Psi		Psi
11	Calc. Saturation/Dew point on evap. Pressure		°F		°F
12	Evaporator Suction Line Temperature		°F		°F
13	Calculated Evaporator superheat #12-#11		°F		°F
14	Liquid Line Pressure (before drier)		Psi		Psi
15	Calc. Saturation/Bubble point of Liquid line pres		°F		°F
16	Liquid Line Temperature (before drier)		°F		°F
17	Calculated Sub-cooling #15-#16		°F		°F
18	Liquid Line Pressure (after drier)		Psi		Psi
19	Liquid Line Temperature (after drier)		°F		°F
20	Compressor Discharge Pressure		Psi		Psi
21	Compressor Discharge Temperature		°F		°F
22					
23	Condenser air/water inlet temp.		°F		°F
24	Condenser air/water outlet temp.		°F		°F
25	Condenser approach #15-#24		°F		°F
26	Condenser Spread #24-#23		°F		°F
27	Return air temp. WB/DB	°F	°F	°F	°F
28	Supply Air Temp WB/DB	°F	°F	°F	°F
29	Evap. Temp Drop #27-#28		°F		°F
30					
31	Unit Voltage rating				
32	Actual voltage (A/B,A/C,B/C)				
33	Compressor Amp Draw Actual				
34	Compressor Amp on Data Plate				
35	Compressor voltage running (A/B,A/C,B/C)				
36	Condenser Fan Amp Draw Actual				
37	Condenser Fan Amp on data plate				
38	Condenser Fan running volts (A/B,A/C,B/C)				
39	Evaporator Fan Amp Draw Actual				
40	Evaporator Fan Amp on data plate				
41	Evaporator Fan volts running (A/B,A/C,B/C)				
42					

Shaded areas used only when readings available

All other areas must be completed for diagnosis

NOTES: include info. on any other devices fitted (i.e. head pressure control, hot gas bypass, liquid injection, pressure regulators)