

HVAC Air / Refrigerant Diagnostic Quick Sheet



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Fixed Metering	Suction Pressure	Head Pressure	Super Heat	Subcool	Comp. Amps	ΔT
Low Charge	↓	↓	↑	↓	↓	↓
Over Charge	↑	↑	↓	↑	↑	↓
Low Indoor Airflow/Low R/R Temp	↓	↓	↓	↓	↓	↑
Dirty Condenser	↑	↑	↓	↓	↑	↓
Liquid Line Restriction*	↓	↓	↑	↑	↓	↓
Oversized Piston	↑	↓	↓	↓	↓	None
High R/R Temp	↑	↑	↑	↓	↑	↓

TXV System	Suction Pressure	Head Pressure	Super Heat	Subcool	Comp. Amps	ΔT
Liquid Line Restriction*	↓	↓	↑	↑	↓	↓
Overfeed / Loose Bulb Bulb Insulated	↑	↓	↓	↓	↓	↓
Low Charge - Slightly	None	↓	None	↓	↓	None
Over Charge - Slightly	None	↑	None	↑	↑	None
Low Indoor Airflow/Low R/R Temp	↓	↓	↓	↓	↓	↑

*Restrictor effect on head pressure varies with the wet bulb of the condenser. Lower wetbulb generally increases the amount of subcool to charge a system. Restrictions may also high head and subcooling, or in systems with dry condenser or air restricted flow may overcharge a system in this manner. In general, restrictions are in the liquid line and affect in the head and subcool of the line.

WB	Enthalpy
40	15.20
41	15.25
42	15.31
43	15.38
44	15.45
45	15.52
46	15.60
47	15.68
48	15.77
49	15.86
50	15.96
51	16.06
52	16.17
53	16.28
54	16.40
55	16.52
56	16.65
57	16.78
58	16.92
59	17.06
60	17.21
61	17.36
62	17.52
63	17.68
64	17.85
65	18.02
66	18.20
67	18.38
68	18.57
69	18.76
70	18.96
71	19.16
72	19.37
73	19.58
74	19.80
75	20.02
76	20.25
77	20.48
78	20.72
79	20.96
80	21.21

Electric Heat

$$CFM = \frac{\text{Volts} \times \text{Amps} \times 3.412}{\Delta T \times 1.08}$$

OR Furnace

$$CFM = \frac{BTU/\text{hour} \times \text{Measured} \Delta T}{\Delta T \times 1.08}$$

- 400 CFM per ton of cooling (Nominal)
- 12,000 BTU per ton of cooling
- BTU sensible Output = CFM x TD x 1.08
- 1 Watt = 3.412 BTU/h
- 1 Kilowatt = 3,412 BTU/h
- 746 Watts = 1 Horsepower

Checking a Gas Meter

$$\text{Input} = \frac{3600 \times \text{Smallest dial size}}{\text{Ccu Ft} \times \# \text{ of seconds for one revolution}}$$

Testing Capacitors Under Load

$$\frac{2652 \times (\text{steps of the meter winding})}{1} \text{ (Volts across the capacitor)}$$

- Total Heat = (R1 - R2) x 4.5 x CFM
- R1 = Return air wet bulb (converted to enthalpy)
- R2 = Supply air wet bulb (converted to enthalpy)

Estimated Evaporator TD

- AC at 400 CFM/Ton = 20°
- Refrigeration Walk in 10°
- Refrigeration Reach in 20°

Gas Appliance Draft Pressure

Natural Gas 0.5" w.c. / LP = 0.75"

CTDA

- Estimated Condensing Temp Over Ambient
- 6-9 SEER = 30°
- 10-12 SEER = 20°
- 13-15 SEER = 20°
- 16+ SEER = 10°

Hvac Troubleshooting Chart Field Guide

Padhraic Smyth



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