

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	↓	↓	↓	↓	↓	↑

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WB	Enthalpy
40	13.20
41	13.70
42	14.17
43	14.60
44	15.00
45	15.35
46	15.65
47	15.90
48	16.10
49	16.25
50	16.35
51	16.40
52	16.40
53	16.35
54	16.25
55	16.10
56	15.90
57	15.65
58	15.35
59	15.00
60	14.60
61	14.17
62	13.70
63	13.20
64	12.65
65	12.05
66	11.40
67	10.70
68	10.00
69	9.25
70	8.50
71	7.70
72	6.90
73	6.10
74	5.30
75	4.50
76	3.70
77	2.90
78	2.10
79	1.30
80	0.50

*Restrictor placed in head pressure side will be used instead of the restriction. Lower digital display observed if correct restriction to charge is correct. Restrictions may also high head side, and/or coils with only small condenser or air restricted head side. Percentage of restriction in this restriction. In general, restrictions are in the liquid line and air restrict in the head side, upstream of TXV.

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 = 3.413 BTU/h
1 Kilowatt = 3,413 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

$$\frac{2000 \times (\text{slope of the meter winding})}{1} \text{ (Volts across the capacitor)}$$

Total Heat = (H1 - H2) x 4.5 x CFM
H1 = Return air wet bulb (converted to enthalpy)
H2 = 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" w.c.

CTDA

Estimated Condensing Temp Over Ambient

6-9 SEER = 30°
10-12 SEER = 20°
13-15 SEER = 20°
16+ SEER = 10°

Hvac Troubleshooting Guide

ESCO Institute Staff, Richard Jazwin

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