

Charging

Charge Symptoms

System Symptom / Problem	Head Pressure	Discharge Temp.	Suction Pressure	TEV Superheat	Condenser Subcooling	Compressor Amps.
1. Refrigerant Overcharge	↑	↓	↑	↓	↑	↑
2. Refrigerant Undercharge	↓	↑	↓	↑	↓	↓
3. Restriction (liquid drier)	↓	↑	↓	↑	↑	↓
4. Low Evaporator Air Flow	↓	↓	↓	↓	↑	↓
5. Fouled / Dirty Condenser	↑	↑	↑	↓	↓	↑
6. Tight Compressor (drag / seizing)	↓	↑	↑	↑	↑	↑
7. Inefficient Compressor	↓	↓	↑	↑	↑	↓
8. TEV Bulb Charge Lost	↓	↓	↓	↑	↑	↓
9. Loose TEV Bulb	↑	↑	↑	↓	↓	↑
10. High Evaporator Air Flow	↑	↑	↑	↑	↓	↑
12. Cross Oil Contamination	↓	↓	↑	↓	↑	↓
13. Non Condensables	↑	↑	↑	↑	↓	↑
16. Low Condensing Ambient	↓	↓	↓	↑	↑	↓
17. Electrical Phase Unbalance (3ph)	↓	↑	↑	↑	↑	↑