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Diagnostic Chart for Air Conditioning System								
Condition	Low Side Pressure	High Side Pressure	Sight Glass	Suction Line	Receiver Dryer	Liquid Line	Discharge Line	Discharge Air
Lack of Refrigerant	Very low	Very low	Clear	Slightly cool	Slightly warm	Slightly warm	Slightly warm	Warm
Lack of Refrigerant	Low	Low	Bubbles	Cool	Warm to hot	Warm	Warm to hot	Slightly cool
Compressor Failure	High	Low	Clear	Cool	Warm	Warm	Warm	Slightly cool
Condenser Malfunction	High	High	Clear to occasional bubbles	Slightly cool to warm	Hot	Hot	Hot	Warm
Expansion Valve Stuck Open	High	High to Normal	Clear	Cold - sweating or frosting heavily	Warm	Warm	Hot	Slightly cool
Expansion Valve Stuck Closed	Low	Low	Clear	Cold - sweating or frosting heavily at valve inlet	Warm	Warm	Hot	Slightly cool
Restriction between Condenser and Expansion Valve	Low	Low	Clear	Cool	Cool or sweating or frosting	Cool or sweating or frosting	Hot to point of restriction	Slightly cool
Restriction between Compressor and Condenser	High	High, normal or low	Clear	Slightly cool to warm	Warm or hot	Warm or hot	Hot	Warm
Normal	Normal	Normal	Clear	Cool Possible light sweat	Warm	Warm	Hot	Cool

Source: Dan, Brattain Int'l Salem, OR
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