



Major Refrigeration System Components:

1. Suction Service Valve
2. Discharge Service Valve
3. Discharge Pressure Regulator
4. Air Cooled Condenser
5. Evaporator
6. Thermostatic Expansion Valve (TXV)
7. TXV External Equalizing Line

8. Thermostatic Expansion Valve Bulb
9. Heat Exchanger
10. Fusible Plug (on reverse side of receiver)
11. Sight Glass
12. Condenser Pressure Transducer (CPT) (on reverse side of receiver)
13. Sight Glass/Moisture Indicator
14. Receiver
15. Liquid Line Service Valve
16. Filter Drier
17. Quench Expansion Valve (QXV)
18. Suction Modulation Valve

Measurement Locations:

- A.** Condenser Air inlet
- B.** Condenser Air Outlet, After Fan Motors
- C.** Compressor Discharge Temperature
- D.** Refrigerant Vapor Entering Condenser
- E.** Refrigerant Liquid Entering Receiver
- F.** Refrigerant Liquid Leaving Receiver
- G.** Refrigerant Liquid Entering TXV
- H.** Refrigerant Entering Evaporator
- I.** Refrigerant Leaving the Evaporator
- J.** Refrigerant Leaving the QXV
- K.** Compressor Suction
- L.** Liquid Line Filter Inlet
- M.** Liquid Line Filter Outlet
- N.** Evaporator Inlet Air, Before Fan Motors
- O.** Evaporator Inlet Air, After Fan Motors
- P.** Evaporator Outlet Air
- Q.** Suction Pressure
- R.** Evaporator Pressure at Evaporator Exit
- S.** Compressor Discharge Pressure
- T.** Liquid Line Pressure at Receiver
- U.** Refrigerant Liquid Pressure at TXV Inlet
- V.** Refrigerant Pressure at TXV Outlet