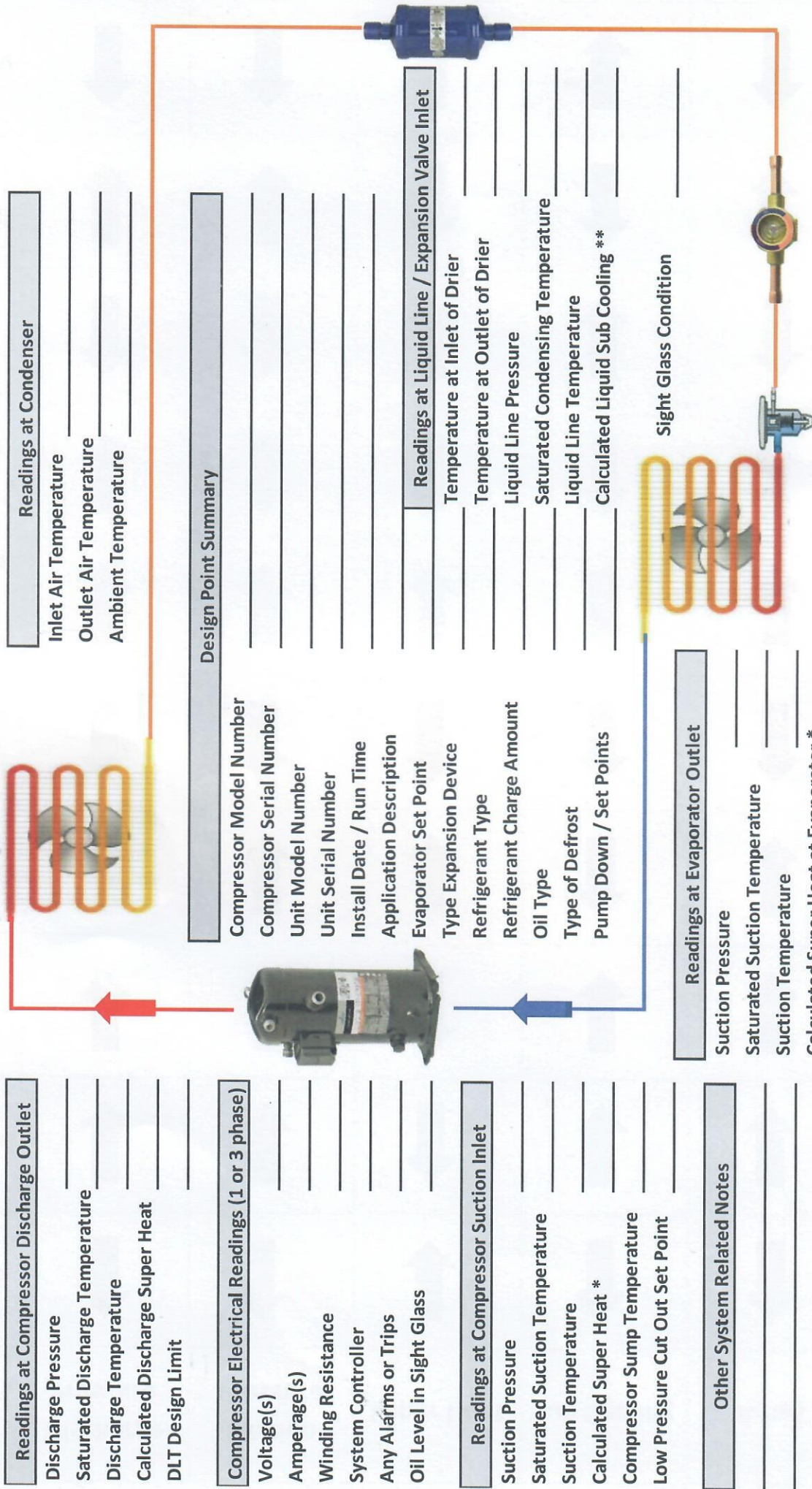


Trouble Shooting System Checklist

This form is to be used to submit system information to help develop solutions to system issues.

Company Name: _____ Phone or E-mail Contact info: _____
 Contact Name: _____ Date: _____



Readings at Compressor Discharge Outlet

Discharge Pressure _____

Saturated Discharge Temperature _____

Discharge Temperature _____

Calculated Discharge Super Heat _____

DLT Design Limit _____

Compressor Electrical Readings (1 or 3 phase)

Voltage(s) _____

Amperage(s) _____

Winding Resistance _____

System Controller _____

Any Alarms or Trips _____

Oil Level in Sight Glass _____

Readings at Compressor Suction Inlet

Suction Pressure _____

Saturated Suction Temperature _____

Suction Temperature _____

Calculated Super Heat * _____

Compressor Sump Temperature _____

Low Pressure Cut Out Set Point _____

Other System Related Notes

Readings at Condenser

Inlet Air Temperature _____

Outlet Air Temperature _____

Ambient Temperature _____

Design Point Summary

Compressor Model Number _____

Compressor Serial Number _____

Unit Model Number _____

Unit Serial Number _____

Install Date / Run Time _____

Application Description _____

Evaporator Set Point _____

Type Expansion Device _____

Refrigerant Type _____

Refrigerant Charge Amount _____

Oil Type _____

Type of Defrost _____

Pump Down / Set Points _____

Readings at Liquid Line / Expansion Valve Inlet

Temperature at Inlet of Drier _____

Temperature at Outlet of Drier _____

Liquid Line Pressure _____

Saturated Condensing Temperature _____

Liquid Line Temperature _____

Calculated Liquid Sub Cooling ** _____

Readings at Evaporator Outlet

Suction Pressure _____

Saturated Suction Temperature _____

Suction Temperature _____

Calculated Super Heat at Evaporator * _____

Current Box Temperature _____

* Suction pressure converted to temperature minus suction temperature
 ** Liquid pressure converted to temperature minus liquid line temperature

System Problem	Discharge Pressure	Suction Pressure	Super Heat	Sub Cooling	Amps
Overcharged	↓	↓	↑	↓	↓
Undercharged	↑	↑	↓	↑	↑
Liquid Restriction (Drier)	↑	↑	↓	↑	↑
Low Evaporator Airflow	↑	↑	↑	↓	↑
Dirty Condenser	↓	↓	↓	↓	↓
Low Outside Ambient Temperature	↑	↑	↑	↓	↑
Inefficient Compressor	↑	↓	↓	↓	↑
TXV Bulb Loose	↓	↓	↑	↑	↓
TXV Bulb Lost Charge	↑	↑	↓	↓	↑
Poorly Insulated TXV Bulb	↓	↓	↑	↑	↓