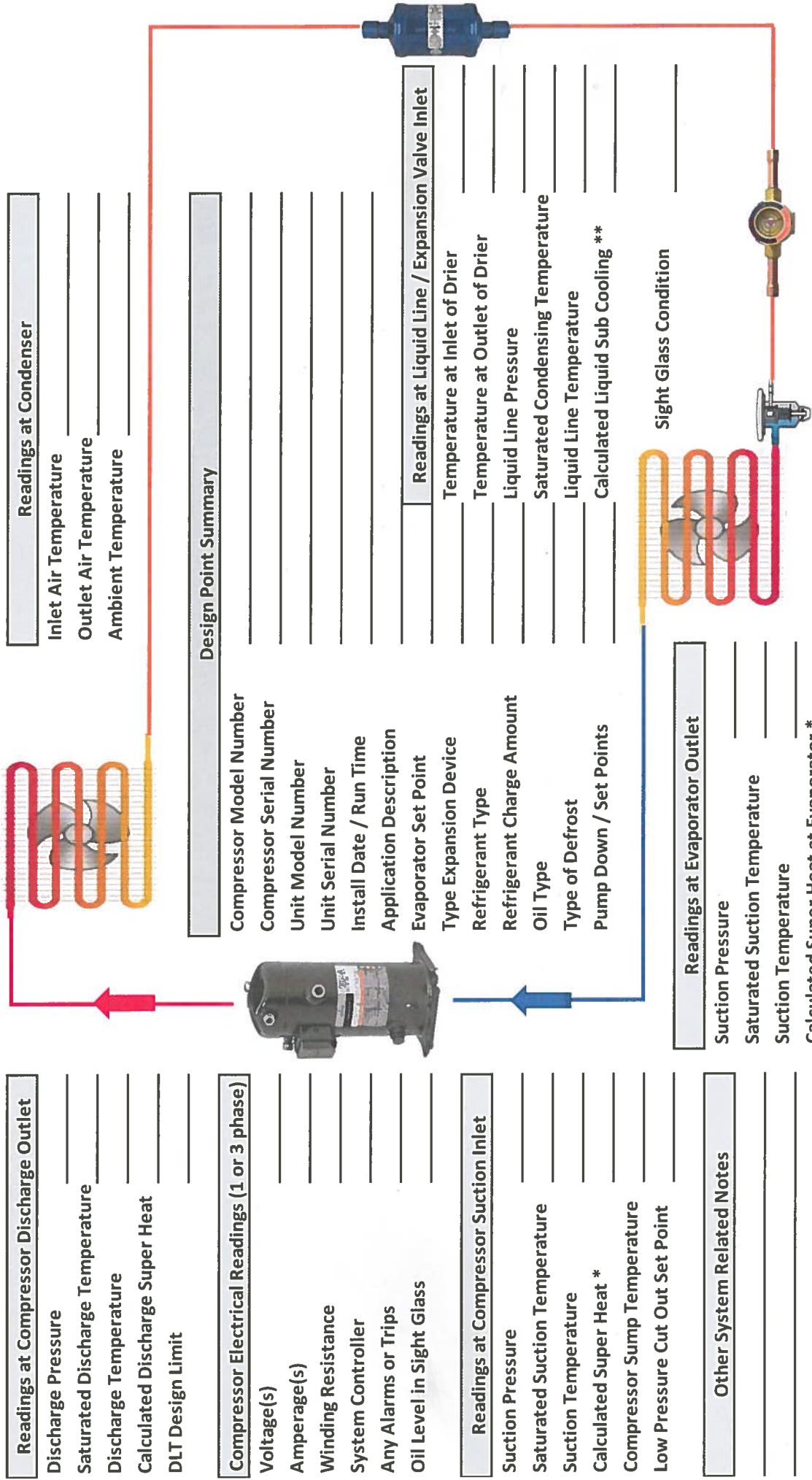


Trouble Shooting System Checklist

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 _____

Readings at Condenser

Inlet Air Temperature _____
 Outlet Air Temperature _____
 Ambient Temperature _____

Compressor Electrical Readings (1 or 3 phase)

Voltage(s) _____
 Amperage(s) _____
 Winding Resistance _____
 System Controller _____
 Any Alarms or Trips _____
 Oil Level in Sight Glass _____

Design Point Summary

Compressor Model Number _____
 Compressor Serial Number _____
 Unit Model Number _____
 Unit Serial Number _____
 Install Date / Run Time _____
 Application Description _____
 Evaporator Set Point _____

Readings at Compressor Suction Inlet

Suction Pressure _____
 Saturated Suction Temperature _____
 Suction Temperature _____
 Calculated Super Heat * _____
 Compressor Sump Temperature _____
 Low Pressure Cut Out Set Point _____

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 _____

Other System Related Notes

* 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	↓	↓	↑	↑	↓