

### SG4000 HVAC 101 Reference Guide

***If your looking at your...***

***and it appears.....***

***You may want to check the following.....and add or remove, replace, clean, adjust as needed***

Suction Pressure- RXP1

HIGH

Refrigerant overcharge, Condenser airflow restrcition, Non-Condensables in system, TXV overfeed, Inefficient compressor

LOW

Refrigerant undercharge, Evaporator airflow restriction, liquid line restriction, TXV underfeed

Liquid Pressure- RXP2

HIGH

Refrigerant overcharge, Condenser airflow restrcition, Non-Condensables in system, TXV overfeed

LOW

Refrigerant undercharge, Evaporator airflow restriction, liquid line restriction, TXV underfeed, inefficient compressor

COA

HIGH

Refrigerant overcharge, Condenser airflow restrcition, Non-Condensables in system, TXV overfeed

(RXT1 - RXT3)

LOW

Refrigerant undercharge, Evaporator airflow restriction, liquid line restriction, TXV underfeed, inefficient compressor

Superheat TXV

HIGH

Refrigerant undercharge, liquid line restriction, TXV underfeed, inefficient compressor

LOW

Evaporator Airflow restrcition, TXV overfeed

Superheat Fixed Orifice

HIGH

Refrigerant undercharge, liquid line restriction, inefficient compressor

LOW

Refrigerant overcharge, Condenser airflow restrcition, Evaporator airflow restrcition, Non-Condensables in system

Subcooling TXV

HIGH

Refrigerant overcharge, Evaporator airflow restrcition, liquiid line restriction, TXV underfeed, Inefficient compressor

LOW

Refrigerant undercharge, Condenser airflow restriction, TXV overfeed

Subcooling Fixed Orifice

HIGH

Refrigerant overcharge, Evaporator airflow restrcition, liquid line restriction

LOW

Refrigerant undercharge, Condensor airflow restriction

**Using an industry standard meter**

Compressor Watts/Amps

HIGH

Refrigerant overcharge, Condenser airflow restrcition, Non-Condensables in system, TXV overfeed

LOW

Refrigerant undercharge, Evaporator airflow restriction, liquid line restriction, TXV underfeed, inefficient compressor