Meier Supply

Troubleshooting Information Sheet

Customer Name: _____ Job Name:_____

Application: A/C - Medium Temp - Low Temp Refrigerant Type: _____

Compressor Model #_____ Evaporator Model #_____

Metering Device: Are the Coils Clean? Yes / No

TXV_____ Fixed Orifice_____ Is the TEV Bulb Securely attached and insulated?

TEV #_____ Are there other components in the system?

Diagnosis:

Measurements	Actual Reading	Expected Value	High or Low
Compressor			
Suction PSI			
Discharge PSI			
Suction Line Temp			
Compressor Superheat			
Discharge Line Temp			
Compressor Superheat		*	
Voltage			
Compressor Amperage			
Oil Level			
Net Oil PSI			
Condenser			
Saturation Temperature		*	
Liquid Line Temp			
Inlet Air Temp			
Sub-Cooling		*	
Evaporator			
Saturation Temperature		*	
Inlet Air Temp			
Outlet Air Temp			
Liquid line Temp			
Suction line Temp			
Sub-Cooling		*	
Super Heat		*	

To determine the approximate / expected operating values use the following rules of thumbs

Remember to always refer to manufactures data to obtain the most accurate expected values

Evaporator Saturation Temp.= Evap. Inlet air temp (box Temp) – TD

TD's: A/C 35, Low Temperature 10 Degrees, Medium Temp. Refrigeration 10 – 15 Degrees

Condenser Saturation Temp.= Condenser inlet air temp + 20 or 30 Degrees (remote condensers 10)

Evaporator Superheats: Low Temp. 4-6 degrees, Medium Temp. 6 – 10 degrees, A/C 10 – 15 degrees

Sub-Cooling at TEV 10 to 15 degrees depending on condenser inlet air temperature and load

High Side and Low Side Pressure: Converted from expected saturation temps