ALL MODELS
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TRAULSEN TECHNICAL BULLETIN

PRODUCT SERVICE DEPARTMENT **FORT WORTH, TX 76137**

TXV TROUBLESHOOTING

Introduction:

This technical bulletin is to inform the field of possible symptoms of TXV failure. This technical bulletin may not cover all situations that may arise in the field and final diagnosis of field based equipment is the sole responsibility of the technician contracted to perform any work required.

Standard Operating Parameters:

- Superheat = 7F
- Subcooling = 4F-12F

Troubleshooting:

⚠ WARNING This procedure requires the use of refrigerants. Be certain the work area is well ventilated. Safety goggles and gloves shall be worn since refrigerants may cause burns to the skin

⚠ WARNING Do not pressurize system above 150 PSIG prior to evacuation or durring leak test procedures.

Traulsen recommends troubleshooting the refrigeration system with temperature sensors per TTB009 REFRIGERATION TS WITH TEMPS. To obtain a copy of this bulletin please contact Traulsen at 800-825-8220 or service@traulsen.com

Troubleshooting Reference Table (not meant to be all encompassing)

Measured Value		
Superheat	**Subcooling**	**Diagnosis**
Above 7F	Below 4F	Refrigerant Charge is Low
Below 5F	Above 12F	System Overcharged
Above 7F	Above 12F	Restriction in High Side or Metering Device

Moisture Contamination:

Moisture contamination in a refrigeration system can freeze in the orifice of the TXV. This can appear as high superheat and cause a restriction at the TXV. To determine if moisture is the cause of the restriction simply heat the valve body for no more than 5 minutes (do not use a torch) to thaw any moisture that may have frozen at the TXV orifice. Once this moisture has thawed the TXV will begin feeding again until the moisture cycles back through to freeze at the TXV orifice again.

Contact Traulsen Technical Service:

If further assistance is needed feel free to contact Traulsen Technical Service at 800-825-8220 between the hours of 7:30am – 11:30am CST & 12:30pm – 4:30pm CST.