

Technical Article | Thermostatic Expansion Valves

Thermostatic Expansion Valve Troubleshooting

Tips and tricks for TXVs in air conditioning systems.

Thermostatic expansion valves (TXVs) are often misdiagnosed as the root problem in poorly performing air conditioning and heat pump systems. The truth is that two-thirds of TXVs returned to Danfoss show no signs of failure. For this reason, Danfoss recommends taking a system-wide approach when troubleshooting. Eliminate all other components as a source of the system's performance issues before investigating the TXV as the culprit.

Low airflow

Low airflow is one sign that the cooling system is not functioning properly that has nothing to do with the TXV.

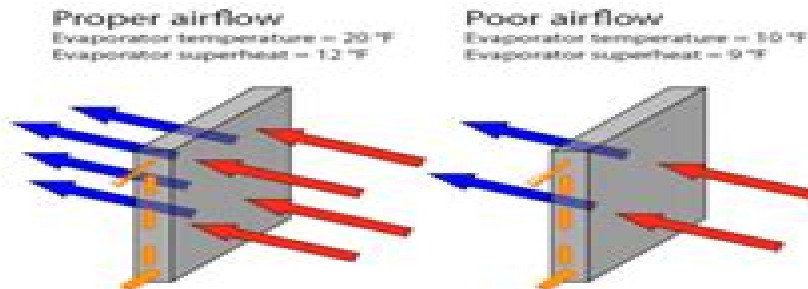


Figure 1

Figure 1 shows two identical evaporators being fed by a TXV with the evaporator on the left getting adequate airflow while the one on the right has inadequate airflow (note the superheat values and evaporator temperatures). Low airflow can be caused by a dirty or clogged air filter or a malfunctioning fan or blower motor, so be sure to investigate those components as the source of insufficient airflow. Low refrigerant charge

Low refrigerant charge

Proper charge	Poor charge
Evaporator temperature = 20 °F	Evaporator temperature = 5 °F
Evaporator superheat = 12 °F	Evaporator superheat = 28 °F
Condenser subcooling = 12 °F	Condenser subcooling = 2 °F

Figure 2

As seen in the table in Figure 2, a low refrigerant charge will result in a higher superheat and a lower subcooling and lower evaporator pressure. The biggest difference between low airflow and low charge is the level of superheat and subcooling. In a poor refrigerant charge scenario, the load is still there, but there is not enough refrigerant to absorb the heat. If signs point to the refrigerant charge being low, charge the system while following proper field procedures or original equipment manufacturer's (OEM's) recommendation.

Upstream obstructions

An obstruction in the liquid line, such as a clogged filter drier or smashed or crimped liquid line tubing, can produce flash gas (see Figure 3), even though there is a proper refrigerant charge. Make sure to check upstream for blockages if there is flash gas at the TXV inlet. Check subcooling at both the condenser outlet and the TXV inlet prior to adding any refrigerant. A dirty or clogged filter drier is a potential culprit, especially since they are most often installed upstream from TXVs.

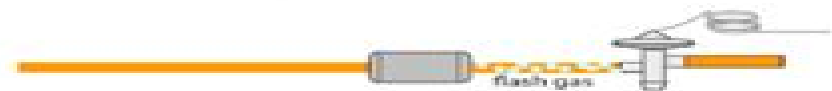


Figure 3

Valve installation

Ensure that the valve has been correctly installed: inadequately brazed fittings or mounted bulbs will all negatively affect the TXV's ability to operate. Inspect the valve, looking for physical signs of damage, such as dents in the power element, kinks in the tubing, or signs of overheating like discoloration.

Txv Troubleshooting Guide

Craig Migliaccio



Txx Troubleshooting Guide:

Air Conditioning Service Guide 2nd Edition Michael Prokup, 2021-09-01 Now in its Second Edition this training manual was written by industry renowned presenter and author Michael Prokup This e book is a comprehensive reference for servicing R 22 R 410A residential split air conditioning systems and is a must have for every student and service technician Step by step service procedures and quick reference diagrams will help guide technicians through troubleshooting and service 168 pages and fully illustrated Copyright 2022 Topics covered include Mechanical Refrigeration Cycle Basics Refrigerants and Oils Superheat Subcooling and Condensers Refrigerant Piping Charging Diagnosing Refrigeration Circuit Problems High Voltage Circuit Compressors ECM Blower Motors PSC Motors Air Volume [The Complete Guide to HVAC Troubleshooting: A Homeowners Manual](#) Tim David, 2023-12-29 The Complete Guide to HVAC Troubleshooting is a definitive resource for homeowners and aspiring technicians alike offering in depth insights and practical advice on diagnosing and resolving a wide range of heating ventilation and air conditioning issues This book serves as an indispensable tool for anyone looking to understand maintain and repair their HVAC systems efficiently and effectively Structured to cater to both beginners and those with more technical experience the guide begins by introducing the fundamentals of HVAC systems It outlines the core components how they operate and the common types of HVAC systems found in homes and buildings This foundational knowledge sets the stage for more complex topics ensuring all readers are up to speed Central to the book is a comprehensive troubleshooting section detailing step by step methods to diagnose common and not so common problems From strange noises and inconsistent temperatures to complete system failures the guide provides clear concise instructions to identify issues and implement solutions It covers a range of scenarios including quick fixes that can be handled without professional help and more complex problems requiring expert intervention The guide goes beyond simple fixes delving into the nitty gritty of HVAC maintenance performance optimization and longevity It discusses preventive measures routine maintenance schedules and the signs that indicate a need for repair or replacement Additionally the book offers valuable tips on selecting the right tools safety precautions and understanding when to call in a professional With The Complete Guide to HVAC Troubleshooting readers will gain the confidence to tackle various HVAC issues head on ensuring their systems run smoothly and efficiently all year round This book is more than just a troubleshooting manual it s a comprehensive reference for anyone committed to understanding and caring for their HVAC system Get ready to turn the page and take control of your home s comfort and air quality *Refrigerant Charging and Service Procedures for Air Conditioning* Craig Migliaccio, 2019-04-24 This Ebook is dedicated to those who are eager to learn the HVACR Trade and Refrigerant Charging Troubleshooting Practices In this book you will find Step by Step Procedures for preparing an air conditioning and heat pump system for refrigerant reading the manifold gauge set measuring the refrigerants charge level and troubleshooting problems with the system s refrigerant flow This book differs from others as it gives key insights into each procedure along with tool

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Charging Procedures covers refrigerant pressures states and conditions how they apply to the refrigeration system vapor pressures subcooling superheat saturation latent heat sensible heat and the refrigeration cycle Basic system components their functions and applications are included Detailed explanations of each point in the refrigeration cycle will clarify questions the reader may have

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Air Conditioning Heating & Refrigeration News ,1988

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