

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.

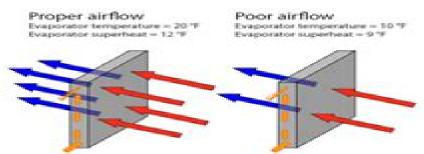


Figure 1

Figure 1 shows two identical evaporators being fied by a TXV with the evaporator on the left gettling 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 refrigetant 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

Walve 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

Liying Dong

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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 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 use from a technician s perspective in language that the technician can understand This book explains the refrigeration cycle of air conditioners and heat pumps refrigerant properties heat transfer the components included in the system the roles of each component airflow requirements and common problems Procedures Included Pump Down Vacuum and Standing Vacuum Test Recovery and Recovery Bottle Use Refrigerant Manifold Gauge Set and Hose Connections Service Valve Positions and Port Access Preparation of the System for Refrigerant Refrigerant Charging and Recovery on an Active System Troubleshooting the Refrigerant Charge and System Operation 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 quide 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 quide 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 2nd Edition Craig Migliaccio, 2025-01-08 The 2nd Edition of the Refrigerant Charging and Service Procedures for Air Conditioning has 450 images on 344 pages It includes over a hundred more pages and double the amount of images to cover A2L Refrigerant Changes R 32 and R 454B R 410A and R 22 More Step by Step Procedures Wireless Probes Gauge Stubs Tees All In One Digital Manifold Set use Compound Manifold Gauge Sets More Images and Procedures Charging and Recovery with Manifolds Charging and Recovery with Tees and Probes Detailed Troubleshooting Scenarios More Methods to Determine Problems More Airflow Testing Procedures This book is dedicated to those who are eager to learn the HVAC trade and refrigerant charging troubleshooting practices This book contains step by step procedures that include preparing air conditioning and heat pump systems for refrigerant measuring system refrigerant charges and troubleshooting systems by measuring refrigerant charge indicators air temperature measurements and airflow Manifold gauge sets digital manifold sets digital gauge stubs and wireless probes are discussed and utilized in examples This book differs from others in that it provides key insights into each procedure along with tool usage from a technician s perspective in language that is easy to understand Concepts are examined such as refrigerant properties the refrigeration cycle of an air conditioner and heat pump energy transfer airflow requirements components within systems and common problems **Hvac: Comprehensive** Insights on Residential & Commercial Systems (Installation and Troubleshooting With a Practical Step-by-step Training Manual to Master Heating) Mark Anderson, 101-01-01 Are you tired of paying expensive technician fees for problems you could fix yourself Do you feel lost when it comes to understanding heating cooling and ventilation systems in your home or workplace You re not alone most beginners find hvac systems confusing overwhelming and intimidating But here s the truth with the right guidance anyone can learn to handle the basics of installation troubleshooting and maintenance with confidence That's exactly why this guide was created Complete hyac beginner's user guide is your step by step manual to understanding managing and mastering hvac systems without feeling stuck or second guessing yourself Inside you ll discover Complete hyac fundamentals learn the principles behind heating ventilation and air conditioning systems to build a strong foundation for both div tasks and professional growth Detailed component analysis dive into the structure and functions of hvac components with real world visuals to help you grasp each part's purpose Installation maintenance and troubleshooting step by step guidance to confidently manage installation projects and troubleshoot issues

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Refrigeration and 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 Understanding Your AC Split System: An Illustrated Guide to Home Cooling Charles Nehme, In our pursuit of comfort especially during sweltering summers or unexpectedly warm days the air conditioner has become an indispensable part of modern living Among the various types of cooling systems available the AC split system stands out for its efficiency quiet operation and widespread use in homes and offices around the globe It s a marvel of engineering designed to quietly transform uncomfortably warm air into a cool refreshing breeze While we often take our air conditioners for granted simply turning them on with the press of a button the intricate dance of components working within those sleek indoor and rugged outdoor units is fascinating Have you ever wondered what exactly happens when you lower the temperature on your thermostat What allows heat to be magically pulled from your living room and expelled into the outside air This book Understanding Your AC Split System aims to demystify this essential appliance Using an exploded view as our guiding map we will embark on a journey to explore each individual part of a typical AC split system We ll uncover its function understand its importance to the overall cooling process and see how these diverse components collaborate in a complex yet harmonious system By the end of this guide you won t just be operating your air conditioner you ll be understanding it This knowledge will not only satisfy your curiosity but also empower you to appreciate the technology identify potential issues and perhaps even perform basic maintenance that can extend the life and efficiency of your unit Get ready to peel back the layers and discover the fascinating world inside your AC split system your personal gateway to home Heating, Ventilating, and Air-conditioning cooling Air Conditioning Heating & Refrigeration News ,1988 Fundamentals Raymond A. Havrella, 1981 Heating, Cooling, and Ventilating , 1987 Automotive Heating, Ventilation, and Air Conditioning Systems, 1991-02 **Troubleshooting and Servicing Heat Pumps** Richard Jazwin, 2002 This unique field guide discusses in detail the various aspects of heat pump selection installation and service This book covers basic heat pump operation including a review of the refrigeration cycle heat pump configurations four way valves electrical schematics defrost systems controls and accessories the scroll compressor and service and troubleshooting

Your Personal Hvac Troubleshoot Guide johnnie thomas,2024-08-01 Whether you re a DIY enthusiast a curious homeowner or just someone tired of paying exorbitant repair bills this book offers a refreshing take on home maintenance It s packed with smooth easy to follow instructions that feel more like a conversation with an old friend than a technical lecture You ll uncover impractical yet charming tidbits about HVAC systems that will make you the star of your next dinner party

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