

HVAC Air / Refrigerant Diagnostic Quick Sheet



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| Fixed Metering | Suction Pressure | Head Pressure | Super Heat | Subcool | Comp. Amps | ΔT |
|---------------------------------|------------------|---------------|------------|---------|------------|------|
| Low Charge | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ |
| Over Charge | ↑ | ↑ | ↓ | ↑ | ↑ | ↓ |
| Low Indoor Airflow/Low R/R Temp | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ |
| Dirty Condenser | ↑ | ↑ | ↓ | ↓ | ↑ | ↓ |
| Liquid Line Restriction* | ↓ | ↓ | ↑ | ↑ | ↓ | ↓ |
| Oversized Piston | ↑ | ↓ | ↓ | ↓ | ↓ | None |
| High R/R Temp | ↑ | ↑ | ↑ | ↓ | ↑ | ↓ |

| TXV System | Suction Pressure | Head Pressure | Super Heat | Subcool | Comp. Amps | ΔT |
|--------------------------------------|------------------|---------------|------------|---------|------------|------|
| Liquid Line Restriction* | ↓ | ↓ | ↑ | ↑ | ↓ | ↓ |
| Overfeed / Loose Bulb Bulb Insulated | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Low Charge - Slightly | None | ↓ | None | ↓ | ↓ | None |
| Over Charge - Slightly | None | ↑ | None | ↑ | ↑ | None |
| Low Indoor Airflow/Low R/R Temp | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ |

*Restrictor effect on head pressure varies with the wet bulb of the condenser. Lower wetbulb generally increases the amount of restriction to charge a system. Restrictions may also high head and subcooling, or in systems with dry condenser or air restricted head may overcharge a system in this manner. In general, restrictions are in the liquid line and affect in the head and subcooling of the line.

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| WB | Enthalpy |
|----|----------|
| 40 | 15.20 |
| 41 | 15.25 |
| 42 | 15.31 |
| 43 | 15.38 |
| 44 | 15.45 |
| 45 | 15.52 |
| 46 | 15.60 |
| 47 | 15.68 |
| 48 | 15.77 |
| 49 | 15.86 |
| 50 | 15.96 |
| 51 | 16.06 |
| 52 | 16.17 |
| 53 | 16.28 |
| 54 | 16.40 |
| 55 | 16.52 |
| 56 | 16.65 |
| 57 | 16.78 |
| 58 | 16.92 |
| 59 | 17.06 |
| 60 | 17.21 |
| 61 | 17.36 |
| 62 | 17.52 |
| 63 | 17.68 |
| 64 | 17.85 |
| 65 | 18.02 |
| 66 | 18.20 |
| 67 | 18.38 |
| 68 | 18.57 |
| 69 | 18.76 |
| 70 | 18.96 |
| 71 | 19.16 |
| 72 | 19.37 |
| 73 | 19.58 |
| 74 | 19.80 |
| 75 | 20.02 |
| 76 | 20.25 |
| 77 | 20.48 |
| 78 | 20.72 |
| 79 | 20.96 |
| 80 | 21.21 |

Electric Heat

$$CFM = \frac{\text{Volts} \times \text{Amps} \times 3.412}{\Delta T \times 1.08}$$

OR

Furnace

$$CFM = \frac{BTU/\text{hour} \times \text{Measured} \Delta T}{\Delta T \times 1.08}$$

- 400 CFM per ton of cooling (Nominal)
- 12,000 BTU per ton of cooling
- BTU sensible Output = CFM x TD x 1.08
- 1 Watt = 3.412 BTU/h
- 1 Kilowatt = 3,412 BTU/h
- 746 Watts = 1 Horsepower

Checking a Gas Meter

$$\text{Input} = \frac{3600 \times \text{Smallest dial size}}{\text{Ccu Ft.} \times \# \text{ of seconds for one revolution}}$$

Testing Capacitors Under Load

$$\frac{200 \mu \text{F} \times (\text{steps of the meter winding})}{1} \text{ (Volts across the capacitor)}$$

- Total Heat = (R1 - R2) x 4.5 x CFM
- R1 = Return air wet bulb (converted to enthalpy)
- R2 = Supply air wet bulb (converted to enthalpy)

Estimated Evaporator TD

- AC at 400 CFM/Ton = 20°
- Refrigeration Walk in 10°
- Refrigeration Reach in 20°

Gas Appliance Draft Pressure

Natural Gas 5.5" w.c. / LP = 0.75" w.c.

CTDA

- Estimated Condensing Temp Over Ambient
- 6-9 SEER = 30°
- 10-12 SEER = 20°
- 13-15 SEER = 20°
- 16+ SEER = 10°

Hvac Troubleshooting Chart

Robert C. Rosaler



Hvac Troubleshooting Chart:

HVAC Troubleshooting Guide Rex Miller,2009-02-10 A Practical On the Job HVAC Guide Applicable to residential commercial and industrial jobs this essential handbook puts a wealth of real world information at your fingertips HVAC Troubleshooting Guide shows you how to read interpret and prepare schedules mechanical plans and electrical schematics This handy resource will aid you in your everyday tasks and keep you up to date with the latest facts figures and devices The book includes numerous illustrations tables and charts troubleshooting tips safety precautions resource directories and a glossary of terms HVAC Troubleshooting Guide helps you Identify and safely use tools and equipment both new and old Use heat pumps and hot air furnaces Calculate ventilation requirements Work with refrigeration equipment and the new refrigerants Utilize control devices including solenoids and relays Operate select and repair electric motors Work with condensers compressors and evaporators Monitor the flow of refrigerant with valves tubing and filters Comply with the Section 608 refrigerant recycling rule Program thermostats Insulate with batts sheet tubing covers and foam Work with solid state controls Understand electrical and electronic symbols used in schematics **Audel HVAC Fundamentals, Volume 1** James E. Brumbaugh,2012-07-02 A reference you ll warm up to From the background and basics of heating systems to the newest chip based technology this first volume of Audel s HVAC Library gives you comprehensive information you need on the job Whether you re installing servicing repairing or troubleshooting an old or new heating system you ll find what you re looking for from wood and coal furnace maintenance to new calculations and the latest environmental technologies and regulations Review the basics of installation wiring and troubleshooting for different HVAC systems Choose the correct system for the space climate and needs Compare the economy and efficiency of various fuel types Install maintain and troubleshoot conversion units Find formula cross references data tables with conversions and listings of trade organizations and equipment manufacturers *Air conditioning and Refrigeration Repair Made Easy* Hooman Gohari,2009-10-19 This comprehensive book has been developed to quickly train an average person for the vast commercial and residential refrigeration and air conditioning market within a short period of time It provides all the technical knowledge needed to start a successful refrigeration and air conditioning business anywhere in the world **HVAC Licensing Study Guide, Third Edition** Rex Miller,Mark R. Miller,2018-01-24 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Ace the Major HVAC Licensing Exams Featuring more than 800 accurate practice questions and answers HVAC Licensing Study Guide Third Edition provides everything you need to prepare for and pass the major HVAC licensing exams This highly effective career building study resource is filled with essential calculations troubleshooting tips for the job site hundreds of detailed illustrations and information on the latest codes and standards You will get brand new coverage of troubleshooting for small motors and electrical equipment for HVAC This thoroughly revised study guide helps you Master the material most

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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 Fundamentals of Automotive Technology

Vangelder,2017-02-24 Revised edition of *Fundamentals of automotive maintenance and light repair* Kirk T VanGelder 2015

HVAC Licensing Study Guide, Second Edition Rex Miller,Mark R. Miller,2012-10-04 This fully updated study guide helps readers pass the HVAC licensing exam and serves as an on the job reference after the exam **HVAC Instant Answers**

Peter Curtiss,Newton Breth,2002 The book will be published in a flexible 5 x 8 format filled with schematic system layouts and graphics showing how commonly measured data can be used to identify operating problems with the HVAC equipment It is expected that about one quarter to one third of the book will be line drawing system schematics graphics showing expected data in fault and no fault states and a few photographs of systems used only when such a figure is required for clarifying points made in the text Fundamentals of Automotive Technology Kirk VanGelder,Kirk T. VanGelder,2022-02-23

Fundamentals of Automotive Technology Principles and Practice Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks *Network Maintenance and Troubleshooting Guide* Neal Allen,1997

Air Conditioning and Refrigeration Troubleshooting Handbook Billy C.

Langley,1980 A complete practical overview of the servicing and troubleshooting of cooling equipment Provides detailed explanations of the purpose of each cooling system component Covers the common problems encountered during troubleshooting Troubleshooting charts provide readers with practical information and are a handy reference Numerous writing diagrams illustrate the book Suggested procedures for repairs are listed **Electricity for HVAC and R** ESCO

Institute Staff,Richard Jazwin,2000 **National Plumbing & HVAC Estimator** ,2000 **HVAC Maintenance and Operations Handbook** Robert C. Rosaler,1998 Part I Introduction Glossary of HVAC Terms The HVAC Design Factor Building Design and Equipment Location Part II Commissioning Introduction to Commissioning The Commissioning Process The Commissioning Specification Commissioning Check Lists Commissioning Computer Based Control Systems Part III Management of Maintenance and Repair Strategic Planning Preventive Predictive Proactive Maintenance Maintenance In House versus Outsourcing Computerized Maintenance Reliability Centered Maintenance Stores and Parts Management Part

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IV Maintenance and Repair Technology Piping and Ductwork Air Moving Equipment Pumps and Valves Heating Equipment Cooling Equipment Air Distribution System Control Equipment Condensate Control **Contractor's Guide to Quickbooks Pro 2002** Karen Mitchell, Craig Savage, Jim Erwin, 2002 According to a recent national survey more construction contractors use QuickBooks Pro and QuickBooks than all other accounting programs combined And for good reason QuickBooks Pro excels at all the routine paperwork in a construction office writing checks keeping track of your bank balance sending out invoices and statements creating up to the minute profit and loss statements for the month year or by job writing payroll checks paying suppliers and subcontractors tracking job costs comparing estimated and actual costs for each job and much more But there s a lot to learn in QuickBooks Pro And converting to a new accounting system can be a complex and confusing task even if you have a strong background in accounting and plenty of time to install the new system That s why this book was written because most construction pros aren t accounting experts and have more important work to do at the job site HVAC Quick Diagnostic Guide Anthony Soriano, 2025-09-15 The HVAC Quick Diagnostic Guide is a practical handbook designed to help technicians students and homeowners quickly identify and solve common heating ventilation and air conditioning problems Written in clear and simple language it provides step by step methods troubleshooting charts and real world examples to guide readers through the diagnostic process This book emphasizes the most critical diagnostic tools in the field Voltage checks to ensure proper power supply transformer function and safe electrical operation Pressure readings to evaluate refrigerant charge compressor health and overall system balance Delta T temperature difference measurements to quickly confirm whether a system is delivering proper cooling or heating performance From understanding system pressures and airflow to recognizing electrical issues and refrigerant problems this guide covers the essential knowledge needed to evaluate HVAC systems efficiently It also explains the roles of key components such as compressors condensers evaporators transformers thermostats and expansion devices ensuring a complete understanding of the refrigeration cycle and system operation Compact and easy to reference in the field this book serves as both a learning tool for beginners and a quick refresher for experienced professionals Whether you are preparing for a career in HVAC or already working in the trade this guide will help you save time increase accuracy and boost confidence when diagnosing HVAC systems Troubleshooting and Servicing Air Conditioning Equipment S. Don Swenson, 1985 Residential Electrical Design John E. Traister, 1994 Here you ll find everything you need to know about blueprints what the NEC requires how to size electric service calculate and size loads and conductors install ground fault circuit interrupters ground service entrances and recommended wiring methods It covers branch circuit layout how to analyze existing lighting layouts and install outdoor lighting methods for remote control switching residential HVAC systems and controls and more

The book delves into Hvac Troubleshooting Chart. Hvac Troubleshooting Chart is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hvac Troubleshooting Chart, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Hvac Troubleshooting Chart
 - Chapter 3: Hvac Troubleshooting Chart in Everyday Life
 - Chapter 4: Hvac Troubleshooting Chart in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Hvac Troubleshooting Chart. The first chapter will explore what Hvac Troubleshooting Chart is, why Hvac Troubleshooting Chart is vital, and how to effectively learn about Hvac Troubleshooting Chart.
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4. In chapter 3, this book will examine the practical applications of Hvac Troubleshooting Chart in daily life. This chapter will showcase real-world examples of how Hvac Troubleshooting Chart can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Hvac Troubleshooting Chart in specific contexts. The fourth chapter will explore how Hvac Troubleshooting Chart is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Hvac Troubleshooting Chart. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Hvac Troubleshooting Chart.

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Hvac Troubleshooting Chart Introduction

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