

HVAC Air / Refrigerant Diagnostic Quick Sheet

Fixed Metering	Suction Pressure	Head Pressure	Super Heat	Subcool	Comp. Amps	Δt
Low Charge	↓	↓	↑	↓	↓	↓
Over Charge	↑	↑	↓	↑	↑	↔
Low Inlet Airflow/Low S/H Temp	↓	↔	↓	↓	↔	↑
Dirty Condenser	↑	↑	↔	↔	↑	↓
Liquid Line Restriction*	↓	↔	↑	↔	↓	↓
Overhead Piping	↔	↔	↓	↓	↓	Yellow
High R/H Temp	↑	↑	↑	↔	↑	↔

TTV System	Suction Pressure	Head Pressure	Super Heat	Subcool	Comp. Amps	Δt
Liquid Line Restriction*	↓	↔	↑	↔	↓	↓
Overhead / Lower Bulk Pipe Insulated	↑	↓	↓	↓	↓	↓
Low Charge - Slightly	None	↓	None	↓	↓	Yellow
Over Charge - Slightly	None	↑	None	↑	↑	Yellow
Low Inlet Airflow/Low S/H Temp	↓	↔	↓	↔	↔	↑

*Nominal effect on head pressure varies with the actual location of the restriction. Actual refrigerant results may differ from a nominal approximation. Head pressure is current. Head pressure may show high head with low suction. In an system with very low subcool it is recommended to have two line charges in addition to the expansion. In general, restrictions are in the suction line and all result in too much subcool (which is bad).

Electric Heat

$$C_{H2O} = \text{Heat Input} \times 3.412 \\ \Delta t \times 0.08$$

(BTU)

Furnace

$$Q_{H2O} = \dot{V} \text{ (lb/m³)} \times \text{Measured BTU} \\ \Delta t \times 1.08$$

600 CFM portion of cooling (Nominal)

12,000 BTU per ton of cooling

$$\text{BTU Sensible Output} = \dot{V} \text{ (lb) } \times \Delta t \times 1.08$$

$$1\text{lb/sec} = 3.412 \text{ BTUs}$$

$$1\text{kg/sec} = 3,412 \text{ BTUs}$$

$$360 \text{ Watts} = 1 \text{ Horsepower}$$

Choosing a Gas Meter

$$\text{Input} = \frac{\text{Flow} \times \text{Specific Gravity}}{\text{Sec. Fc}} \times \text{# of seconds for one revolution}$$

Estimated Refrigerant ID

$$\text{AC at 400 CFM/sec} \times 10^3 \\ \text{Refrigerant Mass in lb} \\ \text{Refrigerant Reach in ft}$$

Gas Properties/Unit Factors

Natural Gas: 1.17 lb/lb = 0.000166 lb

Cooling

Estimated Cooling Using Over Ambient

$$4.19 \text{ BTU} = 1^\circ\text{F}$$

$$10-12 \text{ SEER} = 20^\circ\text{F}$$

$$13-15 \text{ SEER} = 25^\circ\text{F}$$

$$16-18 \text{ SEER} = 30^\circ\text{F}$$



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Refrigeration Air Conditioning Troubleshooting Guide

Rex Miller

Refrigeration Air Conditioning Troubleshooting Guide:

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.

Air Conditioning Maintenance and Troubleshooting: A Comprehensive Guide to Efficient and Safe HVAC Care Charles Nehme, The importance of air conditioning in our daily lives cannot be overstated. From the comfort of our homes to the productivity of our workplaces air conditioning systems play a critical role in maintaining an optimal environment. However like all mechanical systems air conditioners require regular maintenance and occasional troubleshooting to function efficiently and prolong their lifespan. This book Air Conditioning Maintenance and Troubleshooting Guide aims to serve as a comprehensive resource for homeowners technicians and HVAC professionals alike. Whether you are a novice looking to understand the basics of your home air conditioning system or a seasoned technician seeking advanced troubleshooting tips this guide is designed to meet your needs.

Why This Guide Air conditioning systems are complex and involve various components including compressors evaporators condensers and various electrical parts. Proper maintenance can prevent many common issues and save on costly repairs. This guide covers the essential aspects of air conditioning maintenance providing step by step instructions and detailed explanations to ensure your system runs smoothly.

Key Features

- Comprehensive Maintenance Tips Learn about the routine tasks necessary to keep your air conditioning system in top condition from cleaning filters to checking refrigerant levels.
- Troubleshooting Techniques** Diagnose and resolve common problems with clear practical solutions. This section includes troubleshooting flowcharts and checklists to simplify the process.
- Safety Precautions** Understand the safety measures you need to take while working with air conditioning systems to prevent accidents and injuries.
- Technical Insights** Gain deeper knowledge of the components and workings of different types of air conditioning systems including central air conditioners split systems and window units.
- Environmental Considerations** Learn about the environmental impact of air conditioning systems and how to adopt practices that are both efficient and eco friendly.
- Who Should Read This Book** Homeowners Equip yourself with the knowledge to maintain your home air conditioning system identify problems early and possibly avoid expensive service calls.
- HVAC Students Use this guide as a supplementary resource to enhance your understanding of air conditioning systems and prepare for a career in HVAC maintenance and repair.
- Professional Technicians Update your skills with the latest maintenance and troubleshooting techniques and use this book as a quick reference on the job.
- Acknowledgments** This book would not have been possible without the valuable input and feedback from HVAC professionals and industry experts who have generously shared their knowledge and experience.
- I am also grateful to the publishers and technical reviewers whose efforts have ensured the accuracy and clarity of this guide.

Conclusion Maintaining and troubleshooting air conditioning systems can seem

daunting but with the right knowledge and tools it becomes manageable and rewarding This guide is intended to empower you with the confidence and skills necessary to keep your air conditioning system running efficiently and reliably Thank you for choosing this guide I hope it serves as a valuable resource and enhances your understanding and enjoyment of air conditioning maintenance and troubleshooting

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Spine title Chilton auto tune up and troubleshooting On t p Major systems of import cars domestic cars and light trucks test equipment and hook ups

Chilton's Auto Troubleshooting Guide Chilton Automotive Books,Chilton Automotive Editorial Staff,1982-10

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

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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

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The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on

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