

Holey unit

Liquid line hot

Liquid line frosted

Compressor will not start; no hum

Compressor starts, but start winding stays in circuit

Compressor starts and runs but cycles on overload

Compressor starts but immediately cuts out on overload

Compressor will not start, hums, but cycles on overload protector

Compressor tries to start when thermostat closes, but cuts out on overload; finally starts after several attempts

Side 1

INSTRUCTIONS:

1. Set Blue Dot at appropriate problem.
2. Read probable cause opposite Arrows.


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© 2018 Detailizer, Addison, IL www.detailizer.comLow voltage
Voltage Unbalanced (3-Ø)

Wiring defective

Wiring incorrect

Fuse blown

Fan motor, pump, etc., wired to wrong side of overload protector

Relay contacts open

Relay contacts stuck

Relay contacts welded

Relay defective

Relay contacts badly pitted

Relay is wrong

Start winding is held in circuit too long

Start capacitor weak

Start capacitor defective

Wrong start capacitor

Control contacts open

Defective run capacitor

Wrong run capacitor

Overload protector tripped

Overload protector defective

Disconnect switch open

Compressor motor defective

Low refrigerant charge

High head pressure

Bearings or pistons too tight

Condenser clogged or restricted

Capillary tube, strainer or drier restricted

Drier restricted

Refrigerant overcharged

TEV open too wide

Discharge line restricted

Thermostat differential too close

Air or non-condensable gases in system

Receiver shut-off valve clogged or closed too far

Solenoid valve leaking (in off cycle)

Compressor oil charge too low

Fan blade bent, causing vibration

Fan motor bearings loose or worn

Tube refilling

Condensing unit parts loose

Trouble Shooting Guide for AC/R Systems

Run cycle too long or operates continuously

Evaporator defrosts while unit is running

Refrigerated space temp too high

Run capacitor burns out

Compressor short cycles

Suction line sweating or frosted

Start capacitor burns out

Start relay burns out

Head pressure too high

Head pressure too low

Side 2

COMPRESSOR WIRING DIAGRAMS

CAPACITOR START/RUN CSR



CAPACITOR START INDUCTION RUN MODELS CSR



PERMANENT SPLIT CAPACITOR PSC



High voltage

Low voltage

Wiring incorrect

Relay contacts stuck

Relay contacts welded

Relay is wrong type

Start winding is held in circuit too long

Start capacitor defective

Wrong start capacitor

Control contacts stuck

Control set too high

Control differential too close

Wrong run capacitor

Overload protector cutting out

Compressor short cycling

Compressor motor defective

Compressor grounded

Compressor inefficient

High pressure control cutting out

Condenser clogged or restricted

Condenser fan motor defective

Capillary tube, strainer or drier restricted

Refrigerant undercharged

Refrigerant overcharged

Refrigerant line too small

TEV opens too wide

TEV clogged or defective

TEV leaking

TEV too small

Superheat adjusted too low

Evaporator coil clogged by ice or dirt

Evaporator oil filled

Evaporator coil too small

Discharge service valve partially closed

Discharge valve leaking

Discharge line restricted

TEV thermostat bulb loose

Thermostat differential too close

Leak in system

Air or non-condensable gases in system

Moisture in system

Water supply shut off

Location or water too cold

Location too hot

Solenoid valve leaking

Picture doors open too long

Insulation defective, waterlogged or inefficient

Unit too small for its application


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Hvac Troubleshooting Guide Refrigeration

Rosina Ehmann



Hvac Troubleshooting Guide Refrigeration:

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

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Hvac Troubleshooting Guide Refrigeration
 - Chapter 2: Essential Elements of Hvac Troubleshooting Guide Refrigeration
 - Chapter 3: Hvac Troubleshooting Guide Refrigeration in Everyday Life
 - Chapter 4: Hvac Troubleshooting Guide Refrigeration in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Hvac Troubleshooting Guide Refrigeration. The first chapter will explore what Hvac Troubleshooting Guide Refrigeration is, why Hvac Troubleshooting Guide Refrigeration is vital, and how to effectively learn about Hvac Troubleshooting Guide Refrigeration.
 3. In chapter 2, this book will delve into the foundational concepts of Hvac Troubleshooting Guide Refrigeration. This chapter will elucidate the essential principles that must be understood to grasp Hvac Troubleshooting Guide Refrigeration in its entirety.
 4. In chapter 3, the author will examine the practical applications of Hvac Troubleshooting Guide Refrigeration in daily life. This chapter will showcase real-world examples of how Hvac Troubleshooting Guide Refrigeration can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Hvac Troubleshooting Guide Refrigeration in specific contexts. The fourth chapter will explore how Hvac Troubleshooting Guide Refrigeration is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Hvac Troubleshooting Guide Refrigeration. This 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 Guide Refrigeration.

https://staging.conocer.cide.edu/book/uploaded-files/Documents/Lesson_5_4_The_Triangle_Midsegment_Theorem_Answer_Key.pdf

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