

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 Chart Field Guide

Robert R. Redfield



Hvac Troubleshooting Chart Field Guide:

Fire Investigator Field Guide International Association of Arson Investigators, 2011-12-29 *Electrical Equipment B.* Koti Reddy, 2021-08-25 **ELECTRICAL EQUIPMENT A FIELD GUIDE** A comprehensive guide for all the electrical equipment in plants to understand their basic theories relevant standards operation and maintenance challenges and scope for future research This valuable new volume is a must have for any engineer Covering almost all electrical equipment such as generators motors transformers cables batteries meters relays fuses lamps lightning arresters circuit breakers and so much more it covers not only the basic theory but also mathematical equations selection guidelines installation commissioning operation and maintenance and many other practical applications Equally as importantly also covered here are all the applicable international standards such as IEC and IEEE This book is written in a simple language for easy understanding by field engineers The rating plate of all the equipment is described in detail The relevant details of the equipment have been taken from the reputed manufacturers brochures and their operation manuals This book serves as a guide for researchers to know the gaps in existing technologies and gives direction for future research Academics can refer to this book to understand the field requirements and to prepare their curriculum accordingly This groundbreaking new volume presents these topics and trends bridging the research gap and enables wide scale implementation of efficient and effective operations Whether for the veteran engineer or the student this is a must have for any library This outstanding new volume Is a comprehensive one stop shop guidebook for electrical engineers Covers all the electrical machines switchgear meters and relays cables batteries and many other types of equipment found on the shop or plant floor Includes all the applicable international standards such as IEEE IEC NEMA NFPA and others Lists out the gaps in the existing technology and opportunities for future research Audience Electrical engineers technicians and other designers engineers and scientists who work with electrical equipment

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Ferns James Merryweather,2020-07-14 This is a comprehensive lavishly illustrated and user friendly photographic identification guide to the fifty seven ferns and seventeen other pteridophytes that occur in Britain It is the perfect companion for botanists naturalists professional ecologists and anyone else with an interest in this fascinating group of non flowering vascular plants Designed to appeal to beginners and experts alike this authoritative book includes novel identification keys and comparison tables that have been carefully devised to present only essential easily understood technical terms and descriptions avoiding jargon as much as possible Cross referenced throughout to facilitate the comparison of similar species this definitive field guide is the go to source for identifying these species with confidence press princeton edu **Field Guide to Wildlife Diseases: Recording and submitting specimen history data** ,1987 This Field Guide to Wildlife Diseases is the first publication to provide wildlife field personnel with current scientific information about wildlife diseases in an easily understandable and eminently practical form It provides a readable text supported by appropriate illustrations and photographs on how to collect prepare and submit wildlife specimens for postmortem examination In addition the Guide contains specific chapters on the major diseases of wild birds These are written to help field personnel to understand and recognize these diseases and to provide an appropriate course of action involving the integration and utilization of the services of wildlife health specialists

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