

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 is correct. Restrictions may also high head and subcooling, or no subcool with very small condenser or air restricted flow over evaporator in addition to the restriction. In general, restrictions are in the liquid line and affect only the head and subcool of the line.

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

$$\frac{2652 \times (\text{slope of the meter winding})}{I} \text{ (Volts across the capacitor)}$$

- 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 0.5" w.c. / LP = 0.75"

CTDA

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

Hvac Troubleshooting Chart Field Guide

New York Public Library



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Contractor's Guide to the Building Code Jack M. Hageman, 2008 Don't let your jobs be held up by failing code inspections. Smooth sign off by the inspector is the goal but to make this ideal happen on your job site you need to understand the requirements of latest editions of the International Building Code and the International Residential Code. Understanding what the codes require can be a real challenge. This new completely revised Contractor's Guide to the Building Code cuts through the legalese of the code books. It explains the important requirements for residential and light commercial structures in plain simple English so you can get it right the first time.

Problems and Solutions in Structural Geology and Tectonics, 2019-02-26 Problems and Solutions in Structural Geology and Tectonics Volume 5 in the series Developments in Structural Geology and Tectonics presents students, researchers, and practitioners with an all new set of problems and solutions that structural geologists and tectonics researchers commonly face. Topics covered include ductile deformation such as strain analyses, brittle deformation such as rock fracturing, brittle ductile deformation, collisional and shortening tectonics, thrust related exercises, rift and extensional tectonics, strike slip tectonics, and cross section balancing exercises. The book provides a how to guide for students of structural geology and geologists working in the oil, gas, and mining industries. Provides practical solutions to industry related issues such as well bore stability. Allows for self study and includes background information and explanation of research and industry jargon. Includes full color diagrams to explain 3D issues.

Field Guide to Some Carbonate Rock Environments: Florida Keys and Western Bahamas, 1977

Handbook of Hydraulics for the Solution of Hydraulic Problems Horace Williams King, 1918

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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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

Key Issues in Petroleum Geology F. John Gregory, Philip Copestake, Julian M. Pearce, 2007 This volume contains a compilation of 17 seminal papers taken from various Geological Society Special Publications and the Journal of the Geological Society on the use and application of stratigraphy in petroleum geology over the last 20 years The volume focuses on case studies in fundamental stratigraphy applied and integrated stratigraphy and alternative methods of stratigraphy The book is introduced with an original scientific and historical review of the subject all papers are set in context with both the benefits of the techniques and some of the shortcomings highlighted By compiling these papers commercial stratigraphers John Gregory Philip Copestake and Julian Pearce have created a volume intended for a wide readership However it is of particular relevance for the training of undergraduate students studying courses on petroleum geology basin development and sequence stratigraphy as well as for all postgraduate students working in petroleum related scientific fields It is also intended as a volume of general use for geoscientists entering the petroleum industry as well as current workers requiring an overview

New Technical Books New York Public Library, 1994

Recent Publications on Governmental Problems, 1988

Air Controlman 3 & 2 United States. Bureau of Naval Personnel, 1970

The Journal of Health and Physical Education, 1942

[Renewable Energy Systems for Building Designers](#) Dorothy Gerring, 2022-09-27

Renewable Energy Systems for Building Designers presents a comprehensive introduction to the latest resources and technologies used in high performance and net zero energy buildings with a practical focus on the design and integration of these systems This textbook and convenient reference offers a single source guide to renewable technologies balancing broad knowledge with the details of implementation crucial for successful sustainable design It equips students and professionals with foundations and critical information needed to confidently plan for and meet the highest standards of energy efficiency in new construction and retrofitted buildings Part I of the book establishes key principles of renewable systems power production and design for climate introducing energy modeling and measurements of performance Part II focuses in more depth on renewable energy systems including photovoltaics heat pumps solar thermal and more Dedicated chapters break down the fundamental concepts behind each renewable technology and present guidelines for configuration and installation including system requirements equipment specification sizing and location of components Part III discusses topics relevant across renewable systems including energy storage control and monitoring and cost payback calculation Part

IV comprises case studies of exemplary renewable energy projects Features Covers resources and technologies including photovoltaics solar thermal hot water heat pumps biomass wind and microhydro turbines marine renewable energy deep cycle rechargeable batteries and system controllers Compiles up to date essential information on designing with renewable systems in one location organized by technology for easy reference Presents clear explanations of all concepts and system aspects using US SI units and full color diagrams and illustrations throughout Features case studies of renewable energy systems in completed projects demonstrating a range of climate specific applications Includes study questions a comprehensive guide to terminology and acronyms spreadsheets for calculations system sizing worksheets and additional online resources Renewable Energy Systems for Building Designers Fundamentals of Net Zero and High Performance Design will serve as an essential introduction and enduring reference for students of architecture engineering construction and building science Equally valuable as a professional resource it will quickly become the go to guide for energy efficient design for practitioners in these areas

Handbook to the Guide to the Evaluation of Educational Experiences in the Armed Services ,1995 *The Electric Drilling Rig Handbook* Will L. McNair,1980 *Planning Drain, Waste & Vent Systems* Craftsman Book Co,2004-12 How to design plumbing systems in residential commercial and industrial buildings Covers systems that meet the latest code requirements for homes commercial buildings private sewage disposal systems and even mobile home parks and public toilet layouts for the physically handicapped Includes relevant code sections and many illustrations to guide you through the code requirements for designing drainage waste and vent systems

American Physical Education Review ,1929 *Science* John Michels,1929 **The 2002 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,American Council on Education Staff,2005 Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense

Journal of Health, Physical Education, Recreation ,1963

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