

HVACK

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Reference Guide

Evaporate Condenser Ratings

An evaporative condenser rated at a condensing temperature of 100°F and a wet fault temperature or 70°F will have rating factors under other conditions as follows:

Condenser Temp. 'F	Entering Air Wet Bulb Temp. 'F					
	5/5"	60"	65"	701	757	701
90	0.96	0.86	0.75	0.63	0.50	0.43
95	3.13	1.03	0.91	0.80	0.67	0.59
100	3.32	1.22	1.11	1.00	0.87	0.79
105	3.55	1.41	1.54	1.20	1.08	1.00
110	1.71	1.62	1.52	1.41	1.29	1.22
115	1.99	1.85	1.75	1.65	3.54	2.47
120	2.20	2.33	2.02	1.93	1.81	1.75

Compressor Capacity vs Refrigerant

Refrigerant Temp. 'F	Heat Rejection Ratio (s)	Capacity % Based on			
		50°F	40°F	2019	50°F
50	1.36	100			
40	1.18	83	100		
3/3	1.31	69	43		
20	1.16	5-6	67	100	
1.0	1.19	4.6	541	90	
- 0.	1.45	3.6	43	500 64 CO	100
-10	1.53	28	34	50	. 79
+2/0	1.64	22	26	3.0	6.1
-100	1.77	15	3.6	2.7	43
-80	1.92	30	12	100	2.0

(a) For sealed compressors.

The capacity of a typical compressor is reduced as the evaporating temperature is reduced because of increased specific volume (ou ft/lb) of the refrigarant and lower compressor volumetric efficiency. The average 1 hy compressor will have a capacity of nearly 12,000 bts/hr per ton, at 40°F refrigarant temperature, 100°F condensing temperature. A 10° rise/fall in condensing temperature will reduce/increase capacity about 6%.

Cooling Tower Ratings

Temperatures *F					
Wort Warter	Cold Water	West Builtin	Capacity Factor 0.65 1.00		
90	90	.70			
- 後文	62	70			
95	915	70	1.24		
90	80	72	0.74		
92	102	72	0.66		
95	10 Min	72	1.12		
95	65	24.5	1.00		
95	65	76	0.88		
39.5	20 205- 20	2.76	0.75		
9.5	65	80	0.62		

Hot water - Cold Water - Range

Cold Water - Hot Water - Approach

The Capacity factor is a multiplier by which the capacity at any common assumed condition may be found if the rating at some other point is known. Factors are based on heat rejection ratio of 1.25 (15,000 btu/hr per ton) and gpm/fom flow rate.

Example: at 95-85-80, the capacity is 0.62/0.85 or 0.75 that of the rating of 90-80-70.

Capacity is reduced as the flow rate per ton is increased.

If the refrigerent temperature is below 40°F, the heat rejection will be greater than 15,000 btw/hr per ton.

Evaporation will cause increasing deposits of solids and fouling of the condenser tubes unless water is bled off. A bleed of 1% of the circulation rate will result in concentrations of twice the original solids (two concentrations), and 0.5% bleed will result in three concentrations.

Horsepower Per Ton

At 100°F condensing temperature vapor enters the compressor at 65°F

Refrig. Temp. 'F	40	2.0	0	-20	-4.0
Practical Avg.	0.87	1.20	1.70	2.40	3.20

Proper System Charging

Subcooling Charging Method - TXV (Expansion Valve)

Subcooking is defined as: The temperature of a liquid refrigerant when it is cooked below its condeming the expectation. Subcooking takes place in the condemics and is determined by subtracting the liquid line temperature (as read on a the remonsters strapped on the liquid line) from the saturation temperature (gauge temperature - the temperature that corresponds to the pressure read on the high side of the gauge).

 Locate the unit required subcooling from the name plate or product literature (Typically 8-12"Y).

(2) Measure Squid line temperature - convert to pressure.

(10 Subtract the required subcooling (1) from the converted temperature (2).

This is the required liquid line temperature.

(4) Measure the liquid line temperature. If the measured temperature does not equal the required liquid line temperature:

- Add refrigerant to lower the temperature
- . Remove refrigerant to raise the temperature
- Allow a tolerance of n/- 3°F.

Superheat Charging Chart - Cooling - Non TXV (Expansion Valve)

Superheat is defined as: The temperature of vapor refrigerent above its saturation point (evaporation) temperature. Superheat occurs in the evaporator and is determined by subtracting the saturation temperature (the temperature that corresponds to the pressure read on the low-side gauge) from the suction line temperature (as read on a thermometer strapped on the suction line).

Respectived Superheart Condenser Entering Air - Dry Bulls 199 31.27 1900 164 767 100 25-60 51.25 bc. 16.77 31.50 20.70 20 1.8 56 3.3 13 JE 16 200 20.00 2.6 657 370 2546 2018 3.55 3.5 3.3 180 360 电 244 21 1.80 30.25 27 500 2.4 21 1.80 2.75 27 2.4 23 1.9 340 34.4 3700 36.75 20.50 30.76 18-854 37.180 31.7% DOM: 50.00 20.7% 2.30 400 3-8 346 3.5 33. 3.8 356 254 22 2.0 3.7 407 60 3160 346

- 76 45 49 49 39 37 35 39 39 29 27 26
 (1) Measure the outdoor air (dry bulb) temperature, and indoor wet bulb temperature.
- (2) Find the required superheat from the chart.
- (3) Measure the suction line pressure convert pressure to temperature.
- (4) Add the required superheat (2) to the converted temperature (1). This is the required suction line temperature.
- (5) Measure the suction line temperature. If the suction line temperature does not equal the required suction line temperature (4):
- Add refrigerant to lower the suction line temperature.
- Remove refrigerant to sake the saction line temperature.
- Allow a tolerance of n/- 3°F

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Charles Nehme

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HVAC/R Terminology: A Quick Reference Guide Richard Wirz, 2009-04-01 This one of a kind HVAC R technical reference guide incorporates all the HVAC R technical terms used in the industry today and is an indispensable resource for professionals dealing with electricity controls refrigeration cycle heating psychometrics boilers heat pumps heat transfer load calculations and more Covers the entire industry providing the most comprehensive collection of HVAC R terms available in one concise location For those just starting in and seasoned veterans of the HVAC R industry The 71 pages of appendices include common industry association abbreviations business computer and medical terminology area of circles color codes for resistors CFM tables decibel ratings hazardous time exposure of common noises duct sizing conversion charts and much much more HVAC/R Terminology Richard Wirtz, 2006-01-01 The HVAC Pro's Playbook: A Handy Guide to Systems and Solutions Charles Nehme, The world of HVAC is a complex ever evolving field critical to modern comfort safety and energy efficiency This HVAC Handy Cookbook is designed as a practical and accessible reference guide distilling decades of industry knowledge into a single easy to use resource Whether you are an experienced professional a student or a facility manager this book serves as a quick reference tool for the most commonly encountered HVAC components maintenance tasks calculations and problem solving scenarios The goal is to provide concise actionable information that helps you maintain optimal performance in any built environment HVAC Formulas and Equations Builder's Book Inc.,2007-04-16 The Complete Guide to HVAC Troubleshooting: A Homeowners Manual Tim David, 2023-12-29 The Complete Guide to HVAC Troubleshooting is a definitive resource for homeowners and aspiring technicians alike offering in depth insights and practical advice on diagnosing and resolving a wide range of heating ventilation and air conditioning issues This book serves as an indispensable tool for anyone looking to understand maintain and repair their HVAC systems efficiently and effectively Structured to cater to both beginners and those with more technical experience the guide begins by introducing the fundamentals of HVAC systems It outlines the core components how they operate and the common types of HVAC systems found in homes and buildings This foundational knowledge sets the stage for more complex topics ensuring all readers are up to speed Central to the book is a comprehensive troubleshooting section detailing step by step methods to diagnose common and not so common problems From strange noises and inconsistent temperatures to complete system failures the guide provides clear concise 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

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understand the basics this guide provides a step by step roadmap to the cleaning process covering everything from essential tools and equipment to advanced cleaning techniques As HVAC systems vary greatly in complexity size and use from small residential systems to large commercial and industrial setups the challenges of cleaning them require different approaches and specialized equipment This book delves into the various types of equipment available from simple brushes and vacuums to more advanced tools like robotic cleaners and negative air machines Safety is a key priority throughout with guidance on personal protective equipment PPE and workplace safety practices included in every step With the fast pace of technological advancements the HVAC industry continues to evolve and so do the cleaning techniques and tools we use Robotics artificial intelligence and eco friendly cleaning technologies are already making their mark and this book touches on these emerging trends as well Throughout the chapters you ll find practical tips industry standards and case studies to give you insights into real world scenarios Whether you are tackling the ducts of a small home or a large industrial complex this guide equips you with the knowledge and tools to approach each job confidently and efficiently It is my hope that this book not only serves as a technical reference but also helps to elevate the standards of HVAC cleaning ensuring that all who work in this field contribute to healthier more sustainable indoor environments Cost Estimating for the Handyman Business Bill O'Donnell, 2015-09-27 The Cost Estimating for the Handyman Business manual by Remodel MAX contains 128 pages of material costs and manhours for over 3000 items for small jobs Patty's Industrial Hygiene, Volume 4 Barbara Cohrssen, 2021-03-25 Since the first edition in 1948 Patty's Industrial Hygiene and Toxicology has become a flagship publication for Wiley During its nearly seven decades in print it has become a standard reference for the fields of occupational health and toxicology The volumes on industrial hygiene are cornerstone reference works for not only industrial hygienists but also chemists engineers toxicologists lawyers and occupational safety personnel Volume 4 covers environmental and health and safety program management with a number of new chapters on sustainability construction health and safety health and safety of new energies and working with cannabis Index of USACERL Publications, October 1984 - September 1992, 1992 Contractor's Index to the 1997 Uniform Building Code, Vol. 1 Jack M. Hageman, 1998 A common sense index to help you quickly find what you need in Volume 1 of the UBC Topics are listed under names you use in construction Guaranteed to help you save time looking for what you need in the Code Federal Buildings Supplemental Survey 1993, 1995 The Energy Information Administration EIA of the US Department of Energy DOE is mandated by Congress to be the agency that collects analyzes and disseminates impartial comprehensive data about energy including the volume consumed its customers and the purposes for which it is used The Federal Buildings Supplemental Survey FBSS was conducted by EIA in conjunction with DOE's Office of Federal Energy Management Programs OFEMP to gain a better understanding of how Federal buildings use energy This report presents the data from 881 completed telephone interviews with Federal buildings in three Federal regions These buildings were systematically selected using OFEMP s specifications

therefore these data do not statistically represent all Federal buildings in the country The purpose of the FBSS was threefold 1 to understand the characteristics of Federal buildings and their energy use 2 to provide a baseline in these three Federal regions to measure future energy use in Federal buildings as required in EPACT and 3 to compare building characteristics and energy use with the data collected in the CBECS InfoWorld ,1984-09-24 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and Heating, Cooling, Lighting Norbert M. Lechner, Patricia Andrasik, 2021-10-26 The essential guide to environmental control systems in building design For over 25 years Heating Cooling Lighting Sustainable Design Strategies Towards Net Zero Architecture has provided architects and design professionals the knowledge and tools required to design a sustainable built environment at the schematic design stage This Fifth Edition offers cutting edge research in the field of sustainable architecture and design and has been completely restructured based on net zero design strategies Reflecting the latest developments in codes standards and rating systems for energy efficiency Heating Cooling Lighting Sustainable Design Strategies Towards Net Zero Architecture includes three new chapters Retrofits Best practices for efficient energy optimization in existing buildings Integrated Design Strategies for synergizing passive and active design Design Tools How to utilize the best tools to benchmark a building s sustainability and net zero potential Heating Cooling Lighting Sustainable Design Strategies Towards Net Zero Architecture is a go to resource for practicing professionals and students in the fields of environmental systems technology or design environmental design systems construction technology and sustainability technology

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