

Evaporator Condenser Ratings

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

Condenser Temp. °F	Entering Air Wet Bulb Temp. °F					
	55°	60°	65°	70°	75°	78°
90	0.98	0.88	0.75	0.58	0.32	0.43
95	1.00	1.00	0.91	0.80	0.67	0.59
100	1.02	1.02	1.11	1.00	0.87	0.79
105	1.05	1.05	1.16	1.05	1.00	1.00
110	1.10	1.02	1.15	1.10	1.10	1.12
115	1.09	1.05	1.15	1.15	1.24	1.47
120	1.20	1.13	1.00	1.00	1.00	1.15

Compressor Capacity vs Refrigerant

Refrigerant Temp. °F	Heat Rejection Ratio (40)	Capacity % Based on:			
		50°F	40°F	30°F	20°F
50	1.16	100			
40	1.18	95	100		
30	1.21	85	85	100	
20	1.25	75	67		100
10	1.30	45	54	30	
0	1.45	35	45	64	100
-10	1.53	28	34	50	78
-20	1.64	23	26	38	61
-30	1.77	15	18	27	42
-40	1.92	10	12	18	28

††† For sealed compressors.

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

Proper System Charging

Subcooling Charging Method - TXV (Expansion Valve)

Subcooling is defined as: The temperature of a liquid refrigerant when it is cooled below its condensing temperature. Subcooling takes place in the condenser and is determined by subtracting the liquid line temperature (as read on a thermometer 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).

- (1) Locate the unit required subcooling from the name plate or product literature. (Typically 8-12°F).
- (2) Measure liquid line temperature - convert to pressure.
- (3) 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 +/- 3°F.

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

Superheat is defined as: The temperature of vapor refrigerant 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).

Cooling Tower Ratings

Temperatures °F			
Hot Water	Cold Water	Wet Bulb	Capacity Factor
90	60	70	0.85
92	62	70	1.00
95	65	70	1.24
98	68	72	0.74
92	62	72	0.88
95	65	72	1.12
98	68	74	1.00
95	65	76	0.88
98	68	78	0.75
98	68	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/ton flow rate.

Example: at 95-85-80, the capacity is 0.62/0.85 or 0.73 that of the rating of 90-80-70.

Capacity is reduced as the flow rate per ton is increased. If the refrigerant temperature is below 40°F, the heat rejection will be greater than 15,000 btu/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	60	20	0	-20	-40
Practical Avg.	0.87	1.20	1.70	2.40	3.20

		Required Superheat Condenser Entering Air - Dry Bulb											
		°F	55	60	65	70	75	80	85	90	95	100	105
Indoor Air - Wet Bulb	50	9	7	6	6	6	6	6	6	6	6	6	6
	52	12	10	8	6	6	6	6	6	6	6	6	6
	54	14	12	10	7	6	6	6	6	6	6	6	6
	56	17	15	12	10	6	6	6	6	6	6	6	6
	58	19	18	15	13	9	6	6	6	6	6	6	6
	60	22	20	18	16	12	8	6	6	6	6	6	6
	62	25	24	23	19	15	12	8	5	6	6	6	6
	64	29	27	24	23	18	15	10	9	6	6	6	6
	66	32	30	27	24	21	18	15	10	10	8	5	6
	68	35	33	30	27	24	21	19	16	14	12	9	6
	70	37	35	33	30	28	25	22	20	18	15	13	10
	72	40	38	36	33	31	28	26	24	22	20	17	12
	74	42	40	38	36	34	31	30	27	25	23	21	17
	76	45	43	41	39	37	35	33	31	29	27	25	21

- (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 (3). 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 raise the suction line temperature.
 - Allow a tolerance of +/- 3°F.

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equipment and reduces energy consumption This book Comprehensive Guide to HVAC Cleaning Equipment and Techniques is designed to be a practical and thorough resource for HVAC professionals building maintenance staff and anyone involved in the upkeep of air handling systems Whether you re an experienced technician or a beginner seeking to 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

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

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