

Table 3 Suction, Discharge, and Liquid Line Capacities in Tons for Refrigerant 22 (Single- or High-Stage Applications)

Line Size Type L Copper, CDD		Suction Lines ($\Delta t = 2^\circ\text{F}$)				Discharge Lines ($\Delta t = 1^\circ\text{F}$, $\Delta p = 3.05$ psf)		Line Size Type L Copper, CDD	Liquid Lines See notes a and b			
		-40	-20	0	20	40	Saturated Suction Temperatures, $^\circ\text{F}$		Type L Copper, CDD	Visc. = 100 cP	$\Delta t = 1^\circ\text{F}$ $\Delta p = 3.05$	
Corresponding Δp , psi/100 ft		1.15	1.6	2.22	2.91	-40	-40	1/2				3/8
1/2	—	—	—	0.40	0.6	0.75	0.85	1/2	2.5	3.6		
5/8	—	0.32	0.51	0.76	1.1	1.4	1.6	5/8	3.7	6.7		
7/8	0.52	0.66	1.3	2.0	2.9	3.7	4.2	7/8	7.6	18.2		
1 1/8	1.1	1.7	2.7	4.0	5.8	7.5	8.5	1 1/8	13.2	37.0		
1 3/8	1.9	3.1	4.7	7.0	10.1	13.1	14.8	1 3/8	20.2	64.7		
1 5/8	3.0	4.8	7.4	11.1	16.0	20.7	23.4	1 5/8	28.5	102.5		
2 1/8	4.2	6.6	10.0	14.5	21.1	27.8	31.1	2 1/8	49.6	133.0		
2 3/8	6.0	9.3	13.9	20.2	28.8	37.4	42.4	2 3/8	76.5	216.0		
2 5/8	8.0	12.4	18.8	27.5	40.8	52.4	58.4	2 5/8	109.2	301.5		
3 1/8	11.0	16.6	25.1	36.0	51.9	67.9	74.9	3 1/8	147.8	401.5		
3 3/8	14.0	21.7	32.3	45.4	65.4	86.6	93.6	3 3/8	192.1	523.2		
4 1/8	18.0	28.6	42.2	58.2	82.2	108.3	118.3	4 1/8	254.2	695.7		
Steel								Steel				
IPS	SC&H							IPS	SC&H			
1/2	40	—	0.58	0.58	0.83	1.2	1.5	1.7	1/2	800	3.8	5.7
3/4	40	0.50	0.8	1.2	1.8	2.5	3.3	3.7	3/4	800	6.9	12.8
1	40	0.95	1.5	2.3	3.4	4.8	6.1	6.9	1	800	11.5	23.2
1 1/4	40	2.0	3.2	4.8	7.0	9.9	12.6	14.3	1 1/4	800	20.6	34.1
1 1/2	40	3.0	4.7	7.2	10.5	14.8	19.0	21.5	1 1/2	800	28.3	62.6
2	40	5.7	9.1	13.9	20.2	28.5	36.8	41.4	2	400	53.8	102.0
2 1/2	40	9.2	14.6	22.1	32.2	45.4	58.1	65.0	2 1/2	400	78.7	160.8
3	40	14.2	23.7	36.0	51.9	70.1	88.8	106.4	3	400	118.5	240.3
4	40	23.1	37.5	54.8	79.5	115.9	145.2	169.5	4	400	204.2	430.2

- Notes:
 1. Table capacities are in tons of refrigeration.
 Δp = pressure drop from line friction, psi per 100 ft of equivalent line length
 Δt = corresponding change in saturation temperature, $^\circ\text{F}$ per 100 ft
 2. Line capacity for other saturation temperatures Δt and equivalent lengths L_e

$$\text{Line capacity} = \text{Table capacity} \left(\frac{\text{Table } L_e}{\text{Actual } L_e} + \frac{\text{Actual } \Delta t}{\text{Table } \Delta t} \right)^{1.8}$$

 3. Saturation temperature Δt for other capacities and equivalent lengths L_e

$$\Delta t = \text{Table } \Delta t \left(\frac{\text{Actual } L_e}{\text{Table } L_e} \right) \left(\frac{\text{Actual capacity}}{\text{Table capacity}} \right)^{1.8}$$

*Using shown is recommended where any gas generated in receiver must return up condenser line to condenser without reversing condenser flow. Water-cooled condensers, where receiver ambient temperature may be higher than refrigerant condensing temperature, fall into this category.

4. Values based on 105 $^\circ\text{F}$ condensing temperature. Multiply table capacities by the following factors for other condensing temperatures.

Condensing Temperature, $^\circ\text{F}$	Suction Line	Discharge Line
80	1.11	0.79
90	1.07	0.88
100	1.03	0.95
110	0.97	1.04
120	0.90	1.10
130	0.84	1.18
140	0.80	1.26

*Line pressure drop Δp is conservative, if subcooling is substantial or line is short, a smaller size line may be used. Applications with very little subcooling on very long lines may require a larger line.

Table 4 Suction, Discharge, and Liquid Line Capacities in Tons for Refrigerant 22 (Intermediate- or Low-Stage Duty)

Line Size Type L Copper, O/D		Suction Lines ($\Delta t = 2^\circ\text{F}$) ^a					Discharge Lines ($\Delta t = 2^\circ\text{F}$) ^a	Liquid Lines	
		Saturated Suction Temperature, $^\circ\text{F}$							
		-90	-80	-70	-60	-50	-40	-30	
5/8	—	—	—	—	—	—	—	—	0.7
7/8	—	0.18	0.25	0.34	0.46	0.61	0.79	1.0	1.9
1 1/8	—	0.26	0.31	0.39	0.54	1.2	1.6	2.1	3.8
1 3/8	—	0.6	0.9	1.2	1.6	2.2	2.8	3.6	6.6
1 5/8	—	1.0	1.4	1.9	2.6	3.4	4.2	5.7	10.5
2 1/8	—	2.1	3.0	4.1	5.5	7.2	9.3	11.9	21.7
2 3/8	—	3.8	5.3	7.2	9.7	12.7	16.5	21.1	38.4
2 5/8	—	6.1	8.5	11.6	15.5	20.4	26.4	33.8	61.4
3 1/8	—	9.1	12.7	17.3	23.1	30.4	39.4	50.2	91.2
4 1/8	—	12.9	18.0	24.3	32.7	43.0	55.6	70.9	128.6
5 1/8	—	20.2	27.3	36.9	49.8	64.1	82.8	106.0	200.5
6 1/8	—	31.5	42.1	56.5	74.6	94.6	124.2	160.5	309.4

- Notes:
 1. Table capacities are in tons of refrigeration.
 Δp = pressure drop from line friction, psi per 100 ft of equivalent line length
 Δt = corresponding change in saturation temperature, $^\circ\text{F}$ per 100 ft
 2. Line capacity for other saturation temperatures Δt and equivalent lengths L_e

$$\text{Line capacity} = \text{Table capacity} \left(\frac{\text{Table } L_e}{\text{Actual } L_e} + \frac{\text{Actual } \Delta t}{\text{Table } \Delta t} \right)^{1.8}$$

 3. Saturation temperature Δt for other capacities and equivalent lengths L_e

$$\Delta t = \text{Table } \Delta t \left(\frac{\text{Actual } L_e}{\text{Table } L_e} \right) \left(\frac{\text{Actual capacity}}{\text{Table capacity}} \right)^{1.8}$$

 4. Refer to refrigerant thermodynamic property tables (Chapter 20 of the 2013 ASHRAE Handbook—Fundamentals) for pressure drop corresponding to Δt .

^aSee section on Pressure Drop Considerations.

5. Values based on 0 $^\circ\text{F}$ condensing temperature. Multiply table capacities by the following factors for other condensing temperatures. Flow rates for discharge lines are based on -50 $^\circ\text{F}$ evaporating temperature.

Condensing Temperature, $^\circ\text{F}$	Suction Line	Discharge Line
-30	1.09	0.58
-20	1.06	0.71
-10	1.03	0.83
0	1.00	1.00
10	0.97	1.20
20	0.94	1.43
30	0.90	1.80

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**American Society of Heating,
Refrigerating and Air-Conditioning
Engineers**

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Ventilation and Infiltration American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2001

Handbook of Climate Change Mitigation and Adaptation Maximilian Lackner, Baharak Sajjadi, Wei-Yin Chen, 2025-09-26

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Wouters,2006-06-01 Ensuring optimum ventilation performance is a vital part of building design Prepared by recognized experts from Europe and the US and published in association with the International Energy Agency s Air Infiltration and Ventilation Centre AIVC this authoritative work provides organized classified and evaluated information on advances in the key areas of building ventilation relevant to all building types Complexities in airflow behaviour climatic influences occupancy patterns and pollutant emission characteristics make selecting the most appropriate ventilation strategy especially difficult Recognizing such complexities the editors bring together expertise on each key issue From components to computer tools this book offers detailed coverage on design analysis and performance and is an important and comprehensive publication in this field Building Ventilation will be an invaluable reference for professionals in the building

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Masonry Walls for Energy Conservation James E. Amrhein,1981

Plant Engineer's Handbook of Formulas, Charts, and Tables Donald W. Moffat,1982

Solutions Manual for the Mechanical Engineering Reference Manual Michael R. Lindeburg,1994

Research in Building Physics and Building Engineering Paul Fazio,Hua Ge,Jiwu Rao,Guyllaine Desmarais,2020-11-26

Buildings influence people They account for one third of energy consumption across the globe and represent an annual capital expenditure of 7% 10% of GNP in industrialized countries Their lifetime operation costs can exceed capital investment Building Engineering aims to make buildings more efficient safe and economical One branch of this discipline Building Physics Science has gained prominence with a heightened awareness of such phenomena as sick buildings the energy crisis and sustainability and considering the performance of buildings in terms of climatic loads and indoor conditions The book reflects the advanced level and high quality of research which Building Engineering and Building Physics Science in particular have reached at the beginning of the twenty first century It will be a valuable resource to engineers architects building scientists consultants on the building envelope researchers and graduate students

Architecture United States. Naval Facilities Engineering Command,1984

Fundamentals of Building Energy Dynamics Bruce D. Hunn,1996

Fundamentals of Building Energy Dynamics assesses how and why buildings use energy and how energy use and peak demand can be reduced It provides a basis for integrating energy efficiency and solar approaches in ways that will allow building owners and designers to balance the need to minimize initial costs operating costs and life cycle costs with need to maintain reliable building operations and enhance environmental quality both inside and outside the building Chapters trace the development of building energy systems and analyze the demand side of solar applications as a means for determining what portion of a building s energy requirements can potentially be met by solar energy Following the introduction the book provides an overview of energy usepatterns in the aggregate U S building population Chapter 3 surveys work onthe energy flows in an individual building and shows how these flows interact to influence overall energy use Chapter 4 presents the analytical methods techniques and tools developed to calculate and analyze energy use in buildings while chapter 5 provides an extensive survey of the energy conservation and management strategies developed in the post energy crisis period The approach taken is a commonsensical one starting with the proposition that the purpose of buildings is to house human activities and that conservation measures that negatively affect such activities are based on false economies The goal is to determine rational strategies for the design of new buildings and the retrofit of existing buildings to bring them up to modern standards of energy use The energy flows examined are both large scale heating systems and small scale choices among appliances Solar Heat Technologies Fundamentals and Applications Volume 4

Research Paper FPL-RP ,1986

Index and Directory of U.S. Industry Standards ,1987

Energy Efficiency Code for Building Construction Florida. Dept. of Community Affairs. Energy

Code Program,1993 **Building Energy Efficiency Standards** California Energy Commission,1986 Ramsey/Sleeper architectural graphic standards Charles George Ramsey,Harold Reeve Sleeper,John Ray Hoke,American Institute of Architects,1994-03-21 The architect s standard reference for over 60 years is now available as a book CD ROM set Use the book for ideas and inspiration Then use one of five powerful search methods on the CD ROM to quickly find all the information you need for a design project Architectural Graphic Standards Charles George Ramsey,Harold Reeve Sleeper,2000 With new features such as expanded design guidelines and new information on international building standards this tenth edition will keep architects and design professionals up to date with over 50 percent new material from the previous edition Illustrations Affordable Housing Through Energy Conservation ,1989 **Affordable Housing Through Energy Conservation: Technical support document** ,1989 Heating, Ventilating, and Air-conditioning Systems and Equipment American Society of Heating, Refrigerating and Air-Conditioning Engineers,1992

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