

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 ($\Delta t = 1^\circ\text{F}$, $\Delta p = 3.05 \text{ psi}$)		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 1000 gpm	$\Delta t = 1^\circ\text{F}$ $\Delta p = 3.05$	
		Corresponding Δp , psi/100 ft				-40	40					
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	0.86	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	4.7	7.6	11.6	17.1	25.1	32.1	37.4	2 1/8	49.6	213.0		
2 3/8	7.0	11.0	17.0	25.0	36.0	45.4	52.4	2 3/8	76.5	376.9		
3 1/8	11.5	18.4	28.0	44.0	65.0	82.9	100.2	3 1/8	109.2	601.5		
3 3/8	16.0	25.3	38.4	58.6	87.8	111.4	136.2	3 3/8	147.8	895.7		
4 1/8	24.8	39.6	59.2	88.3	131.3	168.4	204.4	4 1/8	202.1	1263.2		
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	25.2
1 1/4	40	2.0	3.2	4.8	7.0	9.9	12.6	14.3	1 1/4	800	20.6	54.1
1 1/2	40	3.0	4.7	7.2	10.5	14.8	19.0	21.5	1 1/2	800	28.3	82.6
2	40	5.7	9.1	13.9	20.2	28.5	36.8	41.4	2	400	53.8	192.0
2 1/2	40	9.2	14.6	22.1	32.2	45.4	58.1	65.9	2 1/2	400	78.7	305.8
3	40	14.2	23.7	36.0	54.8	80.1	102.8	116.4	3	400	118.5	540.3
4	40	23.1	37.5	56.8	85.9	124.3	160.5	187.3	4	400	204.2	1001.2

- 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 values 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 1/8	—	0.26	0.31	0.39	0.54	0.72	1.0	1.5
1 3/8	—	0.6	0.9	1.2	1.6	2.2	2.8	3.6
1 5/8	—	1.0	1.4	1.9	2.6	3.4	4.3	5.7
2 1/8	—	2.1	3.0	4.1	5.5	7.2	9.3	11.9
2 3/8	—	3.8	5.3	7.2	9.7	12.7	16.5	21.1
3 1/8	—	6.1	8.5	11.6	15.5	20.4	26.4	33.8
3 3/8	—	9.1	12.7	17.3	23.1	30.4	39.4	50.2
4 1/8	—	12.9	18.0	24.3	32.7	43.0	55.6	70.9
5 1/8	—	20.2	27.3	36.9	49.7	64.1	83.8	107.5
6 1/8	—	31.5	42.1	56.8	74.6	94.6	124.3	160.5

- 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

Ashrae Chapter 26

**Charles George Ramsey, Harold Reeve
Sleeper**

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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 Now in its 4th extended edition this completely revised and significantly expanded handbook addresses important new research findings and the global need for action related to climate change in its two most relevant aspects mitigation and adaptation There is a growing consensus that anthropogenic activities have been driving global climate change and the consequence will be catastrophic for civilization Reducing the 37.1 billion metric tons of CO₂ produced annually 2017 global emissions along with other greenhouse gases particularly methane has become a leading grand challenge and the pursuit of sustainable energy environments and economies is a complex issue affecting the daily life of every citizen In this 4th edition readers will find new chapters covering the causes and impacts of global warming the climate change impacts on health biodiversity and the economy and emerging technologies for climate change mitigation Particular attention is given to topics such as wildfire threats ocean acidification coral bleaching sea level rise and permafrost thaw The latest research on sustainable aviation fuels carbon mineralization and smart cities is also covered in this new edition as well as topics like sustainable building design climate resistant building materials and sustainable agriculture The Handbook of Climate Change Mitigation and Adaptation collates information in this multi disciplinary area providing readers with a comprehensive overview of the scientific background and current and emerging technologies Intended for an interdisciplinary global audience of researchers and decision makers at universities and in industry it covers climate change models established mature and promising future technologies and ideas the impact of climate change strategies for dealing with global warming the related political frameworks and climate education

Building Ventilation Mat

Santamouris, Peter 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 services industry architects researchers including postgraduate students studying building service engineering and HVAC and anyone with a role in energy efficient building design

Mechanical and Electrical Equipment for Buildings

Walter Grondzik, Daniel Overbey, Alison Kwok, 2026-05-11 UPDATED EDITION OF THE LEADING AWARD WINNING

REFERENCE ON MECHANICAL AND ELECTRICAL SYSTEMS FOR BUILDINGS OF ALL SIZES Twice awarded the AIA s Citation for Excellence in International Architecture Book Publishing Mechanical and Electrical Equipment for Buildings comprehensively reviews mechanical and electrical systems for buildings of all sizes providing design guidelines and detailed design procedures for each topic covered To assist with learning this book contains in depth discussions of why and how to which help the reader better understand concepts and applications This 14th Edition features substantial revisions to core content reflecting the latest knowledge and advancements in the field with coverage of topics including green buildings zero energy zero carbon zero water zero waste healthy buildings resiliency electrification and decarbonization along with revised references to codes standards and rating systems from ASHRAE NFPA ICC IES USGBC LEED ILFI Living Building Challenge IWBI the WELL Building Standard and more With this new edition readers will also find an updated Learner s Guide new PowerPoint learning aids for each chapter updated case studies and an improved test bank of questions and answers New illustrations are also included throughout Mechanical and Electrical Equipment for Buildings explores topics including Design resources covering energy performance water efficiency decarbonization as well as a holistic overview of the impact of the built environment on environmental health and human wellbeing Passive environmental systems that support human thermal visual and acoustical comfort Factors for healthy buildings biophilic design and building system solutions that improve indoor environmental quality IEQ Considerations for efficient effective and durable building enclosures HVAC components including heating and cooling equipment air and water delivery air filters and HVAC system taxonomy anatomy and controls Basic design criteria pertaining to fire protection vertical transportation telecommunications and building automation systems Following in the footsteps of previous editions spanning the greater part of a century Mechanical and Electrical Equipment for Buildings continues to be the leading resource on the subject for professionals and students in architecture architectural engineering and construction *Masonry Walls for Energy Conservation* James E. Amrhein,1981

HVACR Principles and Applications Nuggenhalli S. Nandagopal,2024-03-07 This book provides a clear and concise understanding of the principles and applications of HVACR using a rigorous yet easy to follow presentation The coverage is broad including relevant support areas such as fluid mechanics heat transfer thermodynamics psychrometrics with specific applications to HVACR design and calculations and main topics such as air conditioning processes cooling heating load calculations refrigeration cycles and HVACR equipment and systems The book integrates and illustrates the use of data and information from ASHRAE Handbooks and Standards in step by step calculations of cooling and heating loads and other aspects of HVACR Elucidation of the principles is further reinforced by examples and practice problems with detailed solutions Firmly grounded in the fundamentals the book maximizes readers capacity to take on new problems and challenges in the field of HVACR with confidence and conviction Providing a ready reference and review of essential principles and their applications in HVACR the book is ideal for HVACR practitioners undergraduate engineering students and those specializing

in HVACR as well as for practicing engineers preparing for the engineering license exams FE and PE in USA and abroad The book uses both Inch Pound I P and S I systems of units to facilitate global readership and use

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

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

Architecture United States. Naval Facilities Engineering Command,1984

Research Paper FPL-RP ,1986

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

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: Technical support document**, 1989 [Affordable Housing Through Energy Conservation](#), 1989 [Proceedings of the Summer Computer Simulation Conference](#), 1982 **Heating, Ventilating, and Air-conditioning Systems and Equipment** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1992

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 mrna strand is created using the dna strand as a template this new strand of mrna then leaves the nucleus and is used as a
 template for 3 pronged trna molecules carrying amino acids to create a chain which will eventually

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web last updated april 17 2021 definition the central dogma was proposed by francis crick in the late 1950s this trailblazing
 theory suggested that genetic information flows primarily from nucleic acids in the form of dna and rna to functional proteins
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francis crick in 1957 2 3 then published in 1958 4 5 the central dogma

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web new discoveries have expanded on or even contradicted the original central dogma of molecular biology as proposed by watson and crick these discoveries include multiple alternate pathways of the molecules as well as different types of rna that you ll need to know by tracy kovach created by tracy kim kovach

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web nov 22 2023 the central dogma of molecular biology is a theory that states that genetic information flows only in one direction from dna to rna to protein

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web feb 24 2012 it is called the central dogma of molecular biology the two processes involved in the central dogma are transcription and translation in eukaryotic cells transcription takes place in the nucleus it uses dna as a template to make an rna molecule known as messenger rna mrna

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