

Air-cooled AC Chiller:

Te/Tc: 4/45°C; Cold water inlet/outlet: 12/7°C; Ambient DB: 35°C.

| Model | ACC 01 L 12 | ACC 01 H 12 | ACC 01 L 14 | ACC 01 H 14 |
|-------------------------|-------------|-------------|-------------|-------------|
| Cooling cap. Min. | 62 | 62 | 93 | 93 |
| Cooling cap. Max. | 190 | 319 | 285 | 478 |
| Condensing cap. Min. | 66 | 66 | 100 | 100 |
| Condensing cap. Max. | 207 | 358 | 313 | 541 |
| Oil heat rejection Min. | 17 | 17 | 27 | 27 |
| Oil heat rejection Max. | 33 | 45 | 46 | 62 |

Air-cooled Process Chiller:

Te/Tc: -11/45°C; Brine inlet/outlet: -3/-8°C; Ambient DB: 35°C.

| Model | ACC 02 L 12 | ACC 02 H 12 | ACC 02 L 14 | ACC 02 H 14 |
|-------------------------|-------------|-------------|-------------|-------------|
| Cooling cap. Min. | 33 | 33 | 49 | 70 |
| Cooling cap. Max. | 103 | 173 | 153 | 257 |
| Condensing cap. Min. | 30 | 30 | 53 | 76 |
| Condensing cap. Max. | 113 | 195 | 170 | 298 |
| Oil heat rejection Min. | 21 | 21 | 24 | 28 |
| Oil heat rejection Max. | 34 | 51 | 50 | 71 |

Compressor Capacity Guide

Frank Kreith



Compressor Capacity Guide:

A Practical Guide to Compressor Technology Heinz P. Bloch, 2006-09-18 A Complete overview of theory selection design operation and maintenance This text offers a thorough overview of the operating characteristics efficiencies design features troubleshooting and maintenance of dynamic and positive displacement process gas compressors The author examines a wide spectrum of compressors used in heavy process industries with an emphasis on improving reliability and avoiding failure Readers learn both the theory underlying compressors as well as the myriad day to day practical issues and challenges that chemical engineers and plant operation personnel must address The text features Latest design and manufacturing details of dynamic and positive displacement process gas compressors Examination of the full range of machines available for the heavy process industries Thorough presentation of the arrangements material composition and basic laws governing the design of all important process gas compressors Guidance on selecting optimum compressor configurations controls components and auxiliaries to maximize reliability Monitoring and performance analysis for optimal machinery condition Systematic methods to avoid failure through the application of field tested reliability enhancement concepts Fluid instability and externally pressurized bearings Reliability driven asset management strategies for compressors Upstream separator and filter issues The text s structure is carefully designed to build knowledge and skills by starting with key principles and then moving to more advanced material Hundreds of photos depicting various types of compressors components and processes are provided throughout Compressors often represent a multi million dollar investment for such applications as petrochemical processing and refining refrigeration pipeline transport and turbochargers and superchargers for internal combustion engines This text enables the broad range of engineers and plant managers who work with these compressors to make the most of the investment by leading them to the best decisions for selecting operating upgrading maintaining and troubleshooting

Compressor Handbook Anthony Giampaolo, 2020-12-18 This book provides a practical introduction to dynamic and positive displacement compressors including compressor performance operation and problem awareness In reading this book readers will learn what is needed to select operate and troubleshoot compressors Complete with real life case histories the book demonstrates investigative techniques for identifying and isolating various contributing causes including design deficiencies manufacturing defects adverse environmental conditions operating errors and intentional or unintentional changes of the machinery process that usually precede failure

Air Force Manual United States. Department of the Air Force, 1955

[Compressor Handbook: Principles and Practice](#) Tony Giampaolo, 2023-11-23 This book examines the full spectrum of compressor types how they operate how to control them and how operating conditions can significantly impact their performance Discussed in detail are the influence of pressure temperature molecular weight specific heat ratio compression ratio speed vane position and volume bottles The various methods of throughput control are also addressed including discharge throttling suction throttling guide pain positioning volume bottles

suction valve unloaders speed control as well as how each of these control methods affects compressor life Compressor surge is defined and discussed in detail along with the types of instrumentation controllers valves pressure and temperature transmitters available and which of those are most suitable for controlling search Case studies have been included to illustrate the principles covered in the text This edition also includes detailed information on compressor seals Various types of seals providing the best results for different applications are discussed thereby giving the reader a basic understanding of seals serotypes and applications

A Simple Guide to Understanding Compressors James M. Watterson,2018-09-04
This straightforward guide to compressors seeks to unveil a lot of myths surrounding compressors In A Simple Guide to Understanding Compressors we will be looking at most types of compressors including the centrifugal compressors the air compressors and of course the most troublesome of all compressors the reciprocating compressors Having a compressor with minimal operating problems does not only depend on the selection of the right type and size for your job Detailed specifications of all auxiliary equipment and operating conditions as well as keeping constant vigilance over the engineering and installation is imperative A Simple Guide to Understanding Compressors will explain in a simple yet definitive manner which compressor type is best used for which job and what it can produce

Compressors Royce N. Brown,2011-08-30
This practical reference provides in depth information required to understand and properly estimate compressor capabilities and to select the proper designs Engineers and students will gain a thorough understanding of compression principles equipment applications selection sizing installation and maintenance The many examples clearly illustrate key aspects to help readers understand the real world of compressor technology Compressors Selection and Sizing third edition is completely updated with new API standards Additions requested by readers include a new section on diaphragm compressors in the reciprocating compressors chapter and a new section on rotor dynamics stability in the chapter on diaphragm compressors The latest technology is presented in the areas of efficiency 3 D geometry electronics CAD and the use of plant computers The critical chapter on negotiating the purchase of a compressor now reflects current industry practices for preparing detailed specifications bid evaluations engineering reviews and installation A key chapter compares the reliability of various types of compressors Everything you need to select the right compressor for your specific application Practical information on compression principles equipment applications selection sizing installation and maintenance New sections on diaphragm compressors and an introduction to rotor dynamics stability

Air Conditioning Service Guide 2nd Edition Michael Prokup,2021-09-01
Now in its Second Edition this training manual was written by industry renowned presenter and author Michael Prokup This e book is a comprehensive reference for servicing R 22 R 410A residential split air conditioning systems and is a must have for every student and service technician Step by step service procedures and quick reference diagrams will help guide technicians through troubleshooting and service 168 pages and fully illustrated Copyright 2022 Topics covered include Mechanical Refrigeration Cycle Basics Refrigerants and Oils Superheat Subcooling and Condensers

Refrigerant Piping Charging Diagnosing Refrigeration Circuit Problems High Voltage Circuit Compressors ECM Blower Motors PSC Motors Air Volume **The Chemical Engineering Guide to Compressors** Richard Greene, Chemical Engineering, 1984 **Facilities Engineering Handbook** United States. National Aeronautics and Space Administration, 1974 *Power Generation Calculations Reference Guide* Tyler Gregory Hicks, 1987 **CRC Handbook of Thermal Engineering** Raj P. Chhabra, 2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe *Gas Turbine Handbook* Tony Giampaolo, 2009

Compressor Handbook for the Hydrocarbon Processing Industries , 1979 **Combined Heating, Cooling & Power Handbook** Neil Petchers, 2020-11-26 Completely revised this second edition of a bestseller explores the latest technology advancements and the many changes and developments in the utility and environmental regulation areas It includes new information on the state of deregulation and market pricing as well as discussion of smart grid and other emerging programs The environmental sections reflect the current emphasis on greenhouse gas emissions and carbon management updates to CAAA regulations and timelines and the latest developments in the use and control of refrigerants **The CRC Handbook of Thermal Engineering** Frank Kreith, 2000-02-01 This book is unique in its in depth coverage of heat transfer and fluid mechanics including numerical and computer methods applications thermodynamics and fluid mechanics It will serve as a comprehensive resource for professional engineers well into the new millennium Some of the material will be drawn from the Handbook of Mechanical Engineering but with expanded information in such areas as compressible flow and pumps conduction and desalination **Design Manual, Mechanical Engineering** United States. Naval Facilities Engineering Command, 1972 **Construction Equipment Guide** David A. Day, Neal B. H. Benjamin, 1991-09-03 With the construction boom reaching over 300 billion by the early 1990s in the United States alone this comprehensive and accessible guide is more important than ever for the budget minded contractor Presenting quick engineering know how for the performance and satisfactory completion of construction using commonly recognized equipment it deals with the physical concepts of the work the surrounding conditions and equipment requirements with an emphasis on controls governing the equipment s performance **Audels Engineers and Mechanics Guide** , 1921 *Audel Air Conditioning Home and Commercial* Rex Miller, Mark Richard Miller, Edwin P. Anderson, 2004-10-28 This guide will keep you cool Like its earlier editions this fully updated guidebook is packed with practical information on installing servicing maintaining and trouble shooting air

conditioning systems Whether you re an AC professional an independent repair technician or a cost conscious homeowner everything you need is here Clearly organized and loaded with diagrams and illustrations it s a vital addition to your toolbox Find concise accurate information on installing and maintaining both residential and commercial systems Understand the physics of air conditioning and filtration Make accurate temperature measurements using various methods and devices Work with room air conditioners water cooling systems and auto air conditioning Learn about refrigerants compressors condensers evaporators and AC motors Service troubleshoot and repair both old and new AC units [Instrument Engineers' Handbook, Volume Two](#) Bela G. Liptak,2018-10-08 The latest update to Bela Liptak s acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from academia and their from the trenches advice has been repeatedly tested in real life applications Expanded coverage includes descriptions of overseas manufacturer s products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel

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