



No. 20



45° Angle



No. 28R



No. 63A



No. 14



No. 16



No. 23



90° Elbow



No. 27R



No. 55



No. 62



No. 120SC



No. 24R



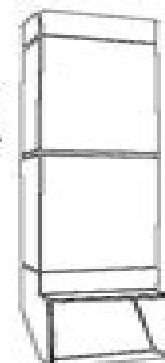
No. 97



No. 65



No. 63



No. 810

EQUIVALENT LENGTHS

PLENUM/DUCT FITTINGS

No. 23	Offset starting collar	10' EL
No. 20	Straight starting collar	35' EL
No. 120SC	Snap collar, round	35' EL

ROUND ELBOWS & ANGLES

	90° elbows	30' EL
	45° angles	10 - 20' EL

REGISTER BOOTS

No. 24R	90° register boot	30' EL
No. 27R	Straight register boot	5' EL
No. 28R	End register boot	50' EL

ROUND FITTINGS (TAKEOFFS)

No. 97	Round starting collar	35' EL
No. 63	Square to round straight	15' EL
No. 63A	Square to round elbow	40 - 45' EL
No. 62	Square to round elbow	40' EL
No. 55	Round to round (adjustable)	20 - 25' EL
No. 65	Round to round	20 - 25' EL

EQUIVALENT LENGTHS

DUCT ELBOWS, RADIUS THROAT

No. 14	Up to 11"	10' EL
	12" to 21"	15' EL
	22" to 27"	20' EL
	28" to 33"	25' EL

DUCT ELBOWS, SQUARE THROAT

No. 16	Up to 11"	40' EL
	12" to 15"	55' EL
	16" to 21"	75' EL
	22" to 27"	100' EL
	28" to 33"	125' EL

RETURN AIR SYSTEM

No. 810	Cold air boot, collar, duct	45- 65' EL
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Jicheng Xie



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Duct Sizing Procedure Guide Sheet Metal and Air Conditioning Contractors' National Association (U.S.), Better Heating and Cooling Bureau, 1975 *Graphic Standards Field Guide to Residential Construction* Dennis J. Hall, Nina M. Giglio, 2011-04-06 A must have reference to more than 100 common residential conditions from accessibility issues to working with zinc Practical information that the architect engineer contractor and homeowner can access quickly with over 230 supporting tables photos and details Identifies frequently used reference standards acceptable practices and other relevant resources Quick reliable answers to your most common on site questions When you re in the field you never know what you ll come across *Graphic Standards Field Guide to Residential Construction* gives you fast access to the information you need when you re on site and under pressure Presented in a highly visual and easily portable format *Graphic Standards Field Guide to Residential Construction* is organized by CSI s MasterFormat and is coordinated with the 2009 International Residential Code as well as current sustainable practices It addresses issues pertaining to residential construction by covering every aspect of the process such as the use of materials structural concerns finishes thermal and moisture protection accessible design applications and more *Graphic Standards Field Guide to Residential Construction* extends beyond the studio with Quick access to essential information wherever you are *Graphic Standards* quality details accompanied by photographs and tables Illustrations that help you troubleshoot problems along with on the spot solutions Compact format that s easy to reference and carry along *Graphic Standards Field Guide to Residential Construction* is a handy companion that offers the essential tools that time crunched professionals can turn to in an instant when dealing with clients or when handling the many complex demands surrounding construction management The Mechanics of Refrigeration: A Comprehensive Guide Pasquale De Marco, 2025-07-23 Delve into the fundamentals of refrigeration with this comprehensive guide that covers every aspect of the field From the basic principles of thermodynamics to advanced technologies this book provides a thorough understanding of the refrigeration process and its applications This guide begins with an exploration of the principles of refrigeration including the thermodynamics of the refrigeration cycle the properties of refrigerants and the various types of refrigeration cycles It then delves into the components of a refrigeration system including compressors condensers evaporators and expansion devices The book also covers the practical applications of refrigeration in various industries including domestic appliances commercial refrigeration and industrial refrigeration systems It provides detailed information on air conditioning systems and heat pumps as well as the safety precautions and regulations governing the handling of refrigerants Maintenance and troubleshooting of refrigeration systems are also addressed with chapters covering preventive maintenance common problems and energy efficiency optimization Advanced technologies such as variable speed compressors natural refrigerants and absorption refrigeration systems are also discussed Finally the book explores the environmental impact of refrigeration including refrigerant emissions and ozone depletion It

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Chilling Solutions: An Essential Guide to Process Cooling Charles Nehme, This book is a comprehensive guide that aims to provide a deep understanding of process cooling systems their principles applications and the best practices for designing implementing and optimizing them Process cooling plays a vital role in a wide range of industries ensuring the efficient operation of equipment maintaining product quality and optimizing energy usage As industries evolve and technologies advance it becomes increasingly important for professionals in the field of process cooling to stay up to date with the latest standards best practices and emerging trends This book is designed to meet the needs of engineers technicians facility managers and anyone involved in the planning operation and maintenance of process cooling systems It covers the fundamental concepts of heat transfer thermal management and the various components and technologies used in cooling systems Additionally it explores industry specific applications such as food and beverage processing pharmaceuticals manufacturing data centers and HVAC Mastering Process Cooling is structured to provide a holistic understanding of the subject matter Starting from the basics it gradually delves into advanced topics ensuring that readers of all levels of expertise can benefit from its content Each chapter is carefully organized presenting concepts in a clear and concise manner supported by practical examples diagrams and case studies The book also emphasizes the importance of energy efficiency sustainability and the integration of renewable energy sources in process cooling It addresses the challenges faced in implementing and maintaining efficient cooling systems and provides insights into troubleshooting and optimization techniques Throughout this book you will find valuable insights practical guidelines and real world examples that showcase successful implementations It encourages continuous learning professional development and adaptation to evolving industry standards I invite you to embark on this journey of mastering process cooling Whether you are a seasoned professional seeking to deepen your knowledge or a newcomer to the field this book will serve as a valuable resource to enhance your understanding improve your skills and contribute to the success of your organization s cooling operations Let us explore the fascinating world of process cooling together and unlock the key to achieving efficient reliable and sustainable cooling systems Happy reading Charles Nehme [Duct Sizing Procedure Guide](#) ,1975

Introduction to Thermo-Fluids Systems Design André Garcia McDonald, Hugh Magande, 2012-08-23 A fully comprehensive guide to thermal systems design covering fluid dynamics thermodynamics heat transfer and thermodynamic power cycles Bridging the gap between the fundamental concepts of fluid mechanics heat transfer and thermodynamics and the practical design of thermo fluids components and systems this textbook focuses on the design of internal fluid flow systems coiled heat exchangers and performance analysis of power plant systems The topics are arranged so that each builds upon the previous chapter to convey to the reader that topics are not stand alone items during the design process and that they all must come together to produce a successful design Because the complete design or modification of modern equipment and systems requires knowledge of current industry practices the authors highlight the use of manufacturer s catalogs to select equipment and practical examples are included throughout to give readers an exhaustive illustration of the fundamental aspects of the design process Key Features Demonstrates how industrial equipment and systems are designed covering the underlying theory and practical application of thermo fluid system design Practical rules of thumb are included in the text as Practical Notes to underline their importance in current practice and provide additional information Includes an instructor s manual hosted on the book s companion website

Planner's Guide to Facilities Layout and Design for the Defense Communications System Physical Plant ,1985 Recommended Industrial Ventilation Guidelines Arthur D. Little, Inc., John H. Hagopian, 1976

Handbook of Mechanical Engineering Calculations Tyler Gregory Hicks, 1998 All major areas of mechanical engineering are covered in this handbook subdivided under four main areas power generation plant and facility engineering environmental engineering design engineering

ASHRAE Handbook & Product Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1979

A Laboratory guide for histology Irving Hardesty, 1908

HVAC Tools: A Comprehensive Guide to Equipment and Techniques Charles Nehme , HVAC Tools A Comprehensive Guide This comprehensive guide is designed to provide you with essential information about the various tools used in the heating ventilation and air conditioning HVAC industry Whether you re a professional technician or a DIY enthusiast understanding the tools of the trade is crucial for efficient and effective work The guide covers a wide range of tools from basic hand tools to specialized equipment Each tool is described in detail including its purpose key features and proper usage Additionally safety tips and considerations are provided to ensure your safety while working with these tools By using this guide you ll gain a deeper understanding of the tools used in HVAC and be better equipped to tackle various tasks Whether you re installing a new HVAC system performing maintenance or troubleshooting problems having a solid knowledge of the tools will be invaluable

Air Conditioning Engineering W Peter Jones, 2007-08-31 Designed for students and professional engineers the fifth edition of this classic text deals with fundamental science and design principles of air conditioning engineering systems W P Jones is an acknowledged expert in the field and he uses his experience as a lecturer to present the material in a logical and accessible manner always introducing new techniques with the use of worked

examples *NBS Technical Note* ,1977-06 **Dust Explosion Prevention and Protection: A Practical Guide** Katherine Barton,2002-12-30 Originally published in three volumes by the Institution of Chemical Engineers from 1985 to 1988 this guide formed the first authoritative and comprehensive guide for dust explosion prevention and protection for engineers scientists safety specialists and managers This guide is a compilation of current best practices for measures to prevent dust explosions from occurring and if they do occur to protect the plant and personnel from their destructive effects by applying the techniques of explosion containment explosion suppression and explosion venting Included is new material on the containment and venting of dust explosions This guide helps those responsible for the design supply and operation of process plants to comply with the provisions of health and safety legislation Dust explosions can occur anywhere where combustible powders are handled such as coal wood flour starch sugar rubber plastics some metals and pharmaceuticals Three classic volumes combined into one handy guide Contains all of the best practices for preventing dust explosions Includes in depth material that outlines how to protect the plant and its resources from explosions *Heating, Ventilating, Air Conditioning Guide* ,1925 **Construction Criteria Manual** United States. Office of the Assistant Secretary of Defense (Installations and Logistics),1972

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