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Then, to calculate the output on a given gas furnace, multiply it's efficiency rating by it's listed input rating to determine the actual Btu output of heat. For example, if a furnace has a listed input rating of 90,000 Btu's and an efficiency rating of 80%, it will produce 90,000 Btu input X .80 efficiency 72,000 Btu actual output

Furnace Sizing Calculator - AC Direct

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With furnace temperature of 1340°C, the quantity (Q) of radiation heat loss from the opening is calculated as follows: The shape of the opening is square and D/X = 1/0.46 = 2.17

2. ENERGY PERFORMANCE ASSESSMENT OF FURNACES
For a long time engineers have used manual calculations to design and analyze furnaces. The trend today is to use spreadsheet computer software. Time is saved but the underlying calculations are the same. Both manual and spreadsheet calculations start with certain assumptions or inputs. In this sintering furnace

SOFTWARE TOOL OPTIMIZES FURNACE DESIGN AND OPERATION
An industrial furnace, also known as a direct heater or a direct fired heater, is a device used to provide heat for an industrial process, typically higher than 400 degrees celsius. They are used to provide heat for a process or can serve as reactor which provides heats of reaction. Furnace designs vary as to its function, heating duty, type of fuel and method of introducing combustion air.

Industrial furnace - Wikipedia
The heating capacity of a furnace is measured

in thousands of BTU (British Thermal Units). Furnaces are rated by the amount of fuel energy consumed when running, called Input BTU. Different furnaces of the same Input BTU have different efficiencies, measured in percentages. For example, a furnace with an Input BTU can have an efficiency of 80%.

Furnace Sizing Estimator - Alpine Home Air Products

An easy-to-use HVAC tool for calculating necessary thermal output capacity (in BTUs) This tool is based on the square foot method, with computations added for the most important values included, such as insulation, windows, and other contributing factors. The system is pre-set to a 72-degree indoor temperature and a 95

HVAC Load Calculator - Highseer

A furnace, referred to as a heater or boiler in British English, is a heating unit used to heat up an entire building.Furnaces are mostly used as a major component of a central heating system.The name derives from Latin word fornax, which means oven.Furnaces are permanently installed to provide heat to an interior space through intermediary fluid movement, which may be air, steam, or hot water.

Furnace - Wikipedia

Calculations in Furnace Technology presents the theoretical and practical aspects of

furnace technology. This book provides information pertinent to the development, application, and efficiency of furnace technology.

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If you're in Washington, D.C., in the 1,900-square-foot home, and the furnace you're considering has an efficiency of 80 percent, you'll want your input rating to be 100,000 BTUs. You can calculate this with any size home. Just substitute your own total square footage, and multiply it by your regional heating factor.

Calculations in Furnace Technology presents the theoretical and practical aspects of furnace technology. This book provides information pertinent to the development, application, and efficiency of furnace technology. Organized into eight chapters, this book begins with an overview of the exothermic reactions that occur when carbon, hydrogen, and sulfur are burned to release the energy available in the fuel. This text then evaluates the efficiencies to measure the quantity of fuel used, of flue gases leaving the plant, of air entering, and the heat lost to the surroundings. Other chapters consider that it is important to determine the amount of carbon discharged with the

ashes, the quantity and composition of any tar produced, so that a carbon balance can be applied. The final chapter describes the various reactions within the furnace atmosphere and between charges and atmosphere. This book is a valuable resource for fuel technologists, heating and ventilating engineers, and plant operators.

Fuels, Furnaces and Refractories focuses on the sources and efficient use of energy available to modern industry. This book begins with the classification, properties, tests, and different kinds of fuels, as well as trends in fuel utilization. This text also tackles the generation and distribution of electricity from both chemical and nuclear energy sources. Subsequent chapters focus on the thermodynamics, physics, chemistry, and kinetics of combustion of fuels; the burner design; the heat transfer and flow of gases through furnaces and flues; and ways of controlling energy supply rates and temperatures. The refractory materials, which are heat-resisting substances, are also described.

Guiding readers from the significance, history, and sources of materials to advanced materials and processes, this textbook looks at the production and primary processing of inorganic materials, such as ceramics, metals, silicon, and some composite materials. The text encourages instructors to

teach the production of all types of inorganic materials as one. While recognizing the differences between producing various types of materials, the authors focus on the commonality of thermodynamics, kinetics, transport phenomena, phase equilibria and transformation, process engineering, and surface chemistry to all inorganic materials. The text focuses on fundamentals and how fundamentals can be applied to understand how the major inorganic materials are produced and the initial stages of their processing. Understanding of these fundamentals will equip students for engineering future processes for producing materials or for studying the processing of the many less common materials not examined in this text. The text is intended for use in an undergraduate course at the junior or senior level, but will also serve as a useful introductory and reference work for graduate students and practicing scientists and engineers.

Contaminated land is a problem both in the short and long term as it cannot be used without remediation. The investigation and analysis of the problem, along with the legal responsibilities surrounding the issues, continue to present difficulties to those wishing to use or develop a contaminated site. Since publication of the 1st edition, the area

Over the last three decades the process industries have grown very rapidly, with corresponding increases in the quantities of hazardous materials in process, storage or transport. Plants have become larger and are often situated in or close to densely populated areas. Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough, Bhopal, Chernobyl, Three Mile Island, the Phillips 66 incident, and Piper Alpha to name but a few. The field of Loss Prevention is, and continues to, be of supreme importance to countless companies, municipalities and governments around the world, because of the trend for processing plants to become larger and often be situated in or close to densely populated areas, thus increasing the hazard of loss of life or property. This book is a detailed guidebook to defending against these, and many other, hazards. It could without exaggeration be referred to as the "bible" for the process industries. This is THE standard reference work for chemical and process engineering safety professionals. For years, it has been the most complete collection of information on the theory, practice, design elements, equipment, regulations and laws covering the field of process safety. An entire library of alternative books (and cross-referencing systems) would be needed to replace or improve upon it, but everything of importance to safety professionals, engineers and

managers can be found in this all-encompassing reference instead. Frank Lees' world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world's chief experts in this field. Sam Mannan is professor of chemical engineering at Texas A&M University, and heads the Mary Kay O'Connor Process Safety Center at Texas A&M. He received his MS and Ph.D. in chemical engineering from the University of Oklahoma, and joined the chemical engineering department at Texas A&M University as a professor in 1997. He has over 20 years of experience as an engineer, working both in industry and academia. New detail is added to chapters on fire safety, engineering, explosion hazards, analysis and suppression, and new appendices feature more recent disasters. The many thousands of references have been updated along with standards and codes of practice issued by authorities in the US, UK/Europe and internationally. In addition to all this, more regulatory relevance and case studies have been included in this edition. Written in a clear and concise style, Loss Prevention in the Process Industries covers traditional areas of personal safety as well as the more technological aspects and thus provides balanced and in-depth coverage of the whole field of safety and loss prevention. * A must-have standard reference for chemical and process engineering safety professionals *

The most complete collection of information on the theory, practice, design elements, equipment and laws that pertain to process safety * Only single work to provide everything; principles, practice, codes, standards, data and references needed by those practicing in the field

This textbook provides a thorough and comprehensive introduction to stoichiometry and thermodynamics with special emphasis on applications to metallurgical processes. The author's approach is to introduce students early on to the fundamentals of the physical chemistry and thermodynamics of metallurgical processes and then gradually expand the treatment into progressively more advanced areas. Topics covered include the laws of thermodynamics, material and energy balances, gasification and combustion of fuels, the iron blast furnace, direct reduction reactors, nonferrous smelters, fluidized-bed roasters, the theory of solutions, chemical equilibrium, electrochemistry. Also included are over 150 worked examples and 450 exercises, many with solutions. The examples and exercises range from straightforward tests of theory to complex analyses of real processes. Every chapter is provided with a full and up-to-date set of references.

The Efficient Use of Energy, Second Edition is a compendium of papers discussing the efficiency with which energy is used in industry. The collection covers relevant topics in energy handling and describes the more important features of plant and equipment. The book is organized into six parts. Part I presents the various methods of heat production. The second part discusses the use of heat in industry and includes topics in furnace design, industrial heating, boiler plants, and water treatment. Part III deals with the production of mechanical and electrical energy. It tackles the principles of internal combustion engines, generators, and the use of nuclear energy. Total energy systems and heat salvage are covered in Part IV. Part V elucidates on the use of refractory and insulating materials and the importance of instrumentation and control in the regulation of energy consumption. The final section focuses on the environmental aspect of energy production such as the control of pollutants emanating from plants during production. The book will be of use to engineers and plant production managers.