

3. COMPRESSED AIR SYSTEM

Syllabus

Compressed air system: Types of air compressors, Compressor efficiency, Efficient compressor operation, Compressed air system components, Capacity assessment, Leakage test, Factors affecting the performance and efficiency

3.1 Introduction

Air compressors account for significant amount of electricity used in Indian industries. Air compressors are used in a variety of industries to supply process requirements, to operate pneumatic tools and equipment, and to meet instrumentation needs. Only 10-30% of energy reaches the point of end-use, and balance 70-90% of energy of the power of the prime mover being converted to unusable heat energy and to a lesser extent lost in form of friction, misuse and noise.

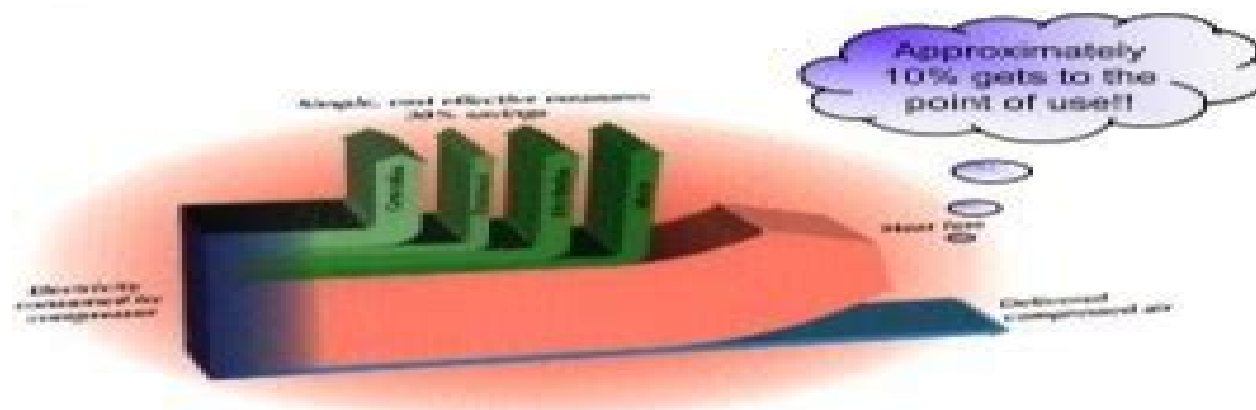


Figure 3.1 Sankey Diagram for Compressed Air System

3.2 Compressor Types

Compressors are broadly classified as: Positive displacement compressor and Dynamic compressor.

Positive displacement compressors increase the pressure of the gas by reducing the volume. Positive displacement compressors are further classified as reciprocating and rotary compressors.

Dynamic compressors increase the air velocity, which is then converted to increased pressure at the outlet. Dynamic compressors are basically centrifugal compressors and are further classified as radial and axial flow types.

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Wenbin Ji



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Process Architecture in Biomanufacturing Facility Design Jeffery Odum, Michael C. Flickinger, 2018-01-26 Essential information for architects designers engineers equipment suppliers and other professionals who are working in or entering the biopharmaceutical manufacturing field Biomanufacturing facilities that are designed and built today are radically different than in the past The vital information and knowledge needed to design and construct these increasingly sophisticated biopharmaceutical manufacturing facilities is difficult to find in published literature and it s rarely taught in architecture or design schools This is the first book for architects and designers that fills this void Process Architecture in Biomanufacturing Facility Design provides information on design principles of biopharmaceutical manufacturing facilities that support emerging innovative processes and technologies use state of the art equipment are energy efficient and sustainable and meet regulatory requirements Relying on their many years of hands on design and operations experience the authors emphasize concepts and practical approaches toward design construction and operation of biomanufacturing facilities including product process facility relationships closed systems and single use equipment aseptic manufacturing considerations design of biocontainment facility and process based laboratory and sustainability considerations as well as an outlook on the facility of the future Provides guidelines for meeting licensing and regulatory requirements for biomanufacturing facilities in the U S A and WHO especially in emerging global markets in India China Latin America and the Asia Pacific regions Focuses on innovative design and equipment to speed construction and time to market increase energy efficiency and reduce footprint construction and operational costs as well as the financial risks associated with construction of a new facility prior to the approval of the manufactured products by regulatory agencies Includes many diagrams that clarify the design approach Process Architecture in Biomanufacturing Facility Design is an ideal text for professionals involved in the design of facilities for manufacturing of biopharmaceuticals and vaccines biotechnology and life science industry including architects and designers of industrial facilities construction equipment vendors and mechanical engineers It is also recommended for university instructors advanced undergraduates and graduate students in architecture industrial engineering mechanical engineering industrial design and industrial interior design

Understanding Pharmaceutical Standards and Regulations Navneet Sharma, Vikesh Kumar Shukla, Sandeep Arora, 2025-06-24 This unique resource provides a comprehensive guide to the evolving regulations and standards which govern the international pharmaceutical industry Featuring clear explanations of the latest regulations as well as insights and strategies to maintain compliance the book covers the key principles of best practice for laboratory research manufacturing and distribution It also offers strategies to navigate the intricacies of different regulatory environments so that pharmaceutical companies can operate internationally avoiding the potentially costly risk of violations Detailed and holistic the book is an essential resource to pharmaceutical researchers and manufacturers as well as an important resource for students and scholars in the field

Energy Storage

Options and Their Environmental Impact R E Hester,R M Harrison,2018-10-18 Recent decades have seen huge growth in the renewable energy sector spurred on by concerns about climate change and dwindling supplies of fossil fuels One of the major difficulties raised by an increasing reliance on renewable resources is the inflexibility when it comes to controlling supply in response to demand For example solar energy can only be produced during the day The development of methods for storing the energy produced by renewable sources is therefore crucial to the continued stability of global energy supplies However as with all new technology it is important to consider the environmental impacts as well as the benefits This book brings together authors from a variety of different backgrounds to explore the state of the art of large scale energy storage and examine the environmental impacts of the main categories based on the types of energy stored A valuable resource not just for those working and researching in the renewable energy sector but also for policymakers around the world

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