

CENTRALIZED VS
DECENTRALIZED
AIR-CONDITIONING
SYSTEMS

Quick Book

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Centralized vs Decentralized Air-conditioning Systems



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Commercial air conditioning could be provided by a variety of equipment which range from low horsepower self-included systems to the very large built-up central systems of several thousand ton capacity. Customer/user' Understand the different types of HVAC systems; Understand the advantages and disadvantages of the central and compact systems; s the architect's/HVAC engineer's responsibility to guide and advise the clients your best option. Learning Objective At the conclusion of the course, the pupil will: • 1. Third, HVAC systems require significant capital investments; • 2. Second, HVAC systems often require substantial floor space and/or building volume for tools and distribution components that must definitely be accommodated during the design process; 3. First, the success or failure of thermal comfort attempts is usually directly related to the success or failure of a building' This 5 - hr Quick Book course discusses the various issues to be looked at and the questions to be raised before a smart, well-thought HVAC scheme is usually finalized. Last, however, not least, the HVAC system is responsible for large part of building operating costs. • 4. Advantages and drawbacks, which arise due to centralized or decentralized air-con systems, are evaluated in this program. The course is supposed for use primarily to the architects, engineers, contractors, facility managers, O&M personnel and HVAC designers. HVAC systems are of great importance to architectural style efforts for four significant reasons. s ultimate goal is to acquire and utilize an air conditioning system that will supply the best suited performance on a complete of life basis, with regards to capital, operating, alternative and maintenance costs. The look and selection of right HVAC system therefore must combine a proper selection of engineered products effectively providing conditioned atmosphere to the space at optimum energy while adding architectural features that shall complement the inside design. Understand the HVAC design challenges on various architectural and functional parameters; • Understand the difference between central and decentralized systems; s heating system, ventilation and air conditioning (HVAC) systems; Understand the central chilled water system sub-configurations; • Understand numerous kinds of decentralized systems (window, split, package, heat pumps and VRF systems); • It' • Understand how to select the right system for the application.



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