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the first steps in designing an air-conditioning system is to establish comfort and health criteria for various spaces in the building.

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summarizes essential theory and then explains how the latest air conditioning technology operates. Load calculations, energy efficiency, and selection of technology are all explained in the context of air conditioning as a system, helping the reader fully

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Extracting internal air and replacing it with outside air can increase the need for heating and

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Heating, Ventilating, and Air-Conditioning (HVAC) The term HVAC refers to the three disciplines of Heating, Ventilating,

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and Air-Conditioning. A fourth discipline, Controls, pervades the entire HVAC field. Controls determine how HVAC systems operate to meet the design goals of comfort, safety, and cost-effective operation.

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High-Performance HVAC | WBDG
- Whole Building Design Guide

Guide B provides guidance on the practical design of heating, ventilation and air conditioning systems and is divided into six sections which are published separately: B0: Applications and

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activities. B1: Heating. B2:
Ventilation and ductwork. B3: Air
conditioning and refrigeration. B4:
Noise and vibration control for
building services systems

CIBSE - Building Services
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CIBSE ' s seminal guide to HVAC systems has had a major revision. Guide B covers best practice for heating, ventilating, air conditioning and refrigeration, and noise, and features a new online chapter that will be continually updated. Guy Hundy highlights the

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main changes in the air
conditioning and refrigeration
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Overview This Design Guide
focuses on packaged heating,

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ventilation and air conditioning (HVAC) systems up to 10 tons per unit—the most common HVAC systems for small commercial buildings in California. These systems are notorious for consuming more energy than is necessary to properly heat, cool,

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Small HVAC System Design Guide
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CIBSE - Air Conditioning Knowledge

The Department for Communities and Local Government (CLG) guide, Improving the energy efficiency of our buildings, A guide to air conditioning inspections for buildings, December 2012

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suggests that an air conditioning system is defined as ‘ a combination of all components required to provide a form of air treatment in which the temperature is controlled, or can be lowered, and includes systems which combine such air treatment

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with the control of ventilation,
humidity and air cleanliness ' .

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ive research agreement between the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE), and the Center for the Built Environment (CBE) at the University of California, Berkeley, for ASHRAE Research Project RP-1064.

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Underfloor Air Distribution (UFAD) Design Guide

Ducted air conditioning design guide A ducted air conditioning system design requires careful planning and attention to detail.

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to help maintain good indoor air quality through adequate ventilation with filtration and provide thermal comfort.

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