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Load Calculations? *Cooling*

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Calculation And Why Is It
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CALCULATIONS Cooling Load

LECTURE 6 (PART A): Space

Heating Load - Intro and

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Example Heating and Cooling
Load Calculation - Sample
problem definition; initial
data collection and
assumptions; heating load;
and cooling load. Transfer
Function Method - Heat gain
by conduction through

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exterior walls and roofs;
conversion of cooling load
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Fundamentals of Heating and
Cooling Loads - ASHRAE

The ASHRAE Heat Balance Method states that the “ sum of all space instantaneous heat gains at any given time does not necessarily (or

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even frequently) equal the cooling load for the space at that same time ". Figure 2 attempts to convey this phenomenon by demonstrating the time delay associated with the 'Gains vs Loads' discussion.

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ASHRAE Heating & Cooling
Load Calculations |

Discoveries | IES

ASHRAE Handbook --

Fundamentals Chapter:

Residential Cooling and

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(Clicking on a company's name will take you to their web site. See the Master List for all commercial resources.)

Residential Cooling and
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state of the art in heating
and cooling load calculation

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methods, plus the tool and
resources needed to
implement them in practice.

Load Calculation

Applications Manual - ASHRAE

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the ASHRAE Heat Balance
Method. Export results in
PDF and XLS formats.

ASHRAE Heating & Cooling
Loads and HVAC Equipment
Sizing

This manual is the fourth in

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a series of load calculation manuals published by ASHRAE. The first in the series, Cooling and Heating Load Calculation Manual, by William Rudoy and Joseph Cuba, was published in 1980.

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Load Calculation Manual 2nd Applications Manual (I-P) - ASHRAE

The ASHRAE publication titled Load Calculation Applications Manual is the most comprehensive publication on the subject

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that ASHRAE makes available.
ASHRAE develops procedures
and methods for calculating
heating and cooling loads.
Software developed
incidental to the research
project is not designed for
general use and is not

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ASHRAE Technical FAQ

In a cooling load estimate, heat gain from all appliances -elec- trical, gas, or steam -should be taken into account. Because

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of the variety of
appliances, applications,
schedules, use, and
installations, estimates can
be very subjective. Often,
the only information avail-
able about heat gain from
equipment is that on its

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Fundamentals Handbook (SI)

Simply put, heating and cooling loads are the rates of energy input (heating) or removal (cooling) required

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to maintain an indoor environment at a desired temperature and humidity condition. Heating and air conditioning systems are designed, sized, and controlled to accomplish that energy transfer. The

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amount of heating or cooling
required at any particular
time varies widely,
depending on ...

CHAPTER 18. NONRESIDENTIAL
COOLING AND HEATING LOAD ...

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CALCULATIONS ...

This heating system sizing
calculator is based on the

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ASHRAE standards. This calculator will calculate heating loads for air conditioning systems for residential places.

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Calculation Excel Sheet XLS](#)

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Heating and cooling load calculations are carried out to estimate the required capacity of heating and cooling systems, which can maintain the required conditions in the conditioned space.

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Heating Load Excel Sheets

Reprinted by permission from
ASHRAE Journal, November,
1997 pp 37 - 45 For example,
a ventilation air load index
of $6.7 + 1.1$ means that the

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total annual latent load is
6.7 ton-hours per cfm, and
the annual sensible load is
1.1 ton-hours per cfm. The
“VLI” is proposed in the
same spirit that led to the
use of the “degree-day” as
shorthand for expressing

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heating and cooling loads on
the ...

ASHRAE Paper -
Dehumidification and Cooling
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ASHRAE, 1992 - Air
conditioning - 209 pages 0

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Reviews Provide a comprehensive source of theory, procedures and data for cooling and heating load calculations for other than residential buildings....

Cooling and Heating Load

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The Cooling Load Temperature
Difference/Solar Cooling
Load/ Cooling Load Factor
(CLTD/SCL/CLF) load
estimation method, used
throughout Period Two, is a

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simplified hand calculation
procedure developed long ago
by ASHRAE. Because of its
simplicity, it is the most
common method used for basic
instruction on estimating
cooling loads.

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Cooling and Heating Load

Estimation - Trane

ASHARE loads now allows the user to include/exclude internal gains from a heating loads run, see Figure 2-1. By default, the internal gains are not

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included for either the Room
& Zone heating loads or the
System heating loads. Figure
2 - 1 : ASHRAE Room & Zone
Loads dialog with the option
to include internal gains
for the heating loads
engaged

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ASHRAE Loads - Integrated
Environmental Solutions Ltd

Cooling load is the rate at which sensible and latent heat must be removed from the space to maintain a constant space dry-bulb air

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temperature and humidity.

Sensible heat into the space causes its air temperature to rise while latent heat is associated with the rise of the moisture content in the space.

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"This manual focuses on the calculation of cooling and heating loads for commercial buildings. The heat balance method (HBM) and radiant time series method (RTSM)

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(as well as how to implement these methods) are discussed. Heat transfer processes and their analysis, psychrometrics, and heating load calculations are also considered"--

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Provide a comprehensive
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source of theory, procedures
and data for cooling and
heating load calculations
for other than residential
buildings.

Covers heat transfer as it
applies to buildings and the

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various factors that must be considered when calculating the heating and cooling loads of a building. Topics include: how to use a simple heat loss calculation procedure; how to find and use local climate data;

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thermal properties of
building materials; effects
of air infiltration and
ventilation; basic concepts
and methods to determine
cooling loads; effects of
windows, walls, roofs and
partitions on loads; basic

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types of internal loads; how
to use the CLTD Method; and
how to use the Transfer
Function Method.

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Heating and cooling load calculations are carried out to estimate the required capacity of heating and cooling systems, which can maintain the required conditions in the

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conditioned space. To estimate the required cooling or heating capacities, one has to have information regarding the design indoor and outdoor conditions, specifications of the building,

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specifications of the
conditioned space (such as
the occupancy, activity
level, various appliances
and equipment used etc.) and
any special requirements of
the particular application.
For comfort applications,

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the required indoor
conditions are fixed by the
criterion of thermal
comfort, while for
industrial or commercial
applications the required
indoor conditions are fixed
by the particular processes

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being performed on the
products being stored.
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Generally, heating and cooling load calculations involve a systematic and stepwise procedure, which account for all the building energy flows. In practice, a

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variety of methods ranging from simple rules-of-thumb to complex transfer function methods are used to arrive at the building loads. This short quick book provides a procedure for preparing a manual calculation for

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cooling load using CLTD/CLF
method suggested by ASHRAE
and includes two detailed
examples. For more advanced
methods such as TFM, the
reader should refer to
ASHRAE and other
handbooks. Learning

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Objective At the end of this course, the student should be able to: 1. Understand the basic terminology and definitions related to air conditioning load calculations 2. Explain the differences between heating

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and cooling load design considerations³. Explain the difference between 1) space heat gain v/s cooling load 2) space cooling v/s cooling load and 3) external loads v/s internal loads⁴. Differentiate between

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sensible and latent loads 5.

List commonly used methods
for estimating cooling loads

6. Estimate the internal and
external cooling loads using
CLTD/CLF method from

building specifications,
design indoor and outdoor

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conditions, occupancy etc.

7. Describe various equations and the information sources to determine conductive load through opaque building elements. 8. Describe various equations and information

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sources to determine the solar transmission load through glazing.9. Describe various equations and information sources to determine the internal load due to people, lights and power appliances.10.

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Determine the supply air flow rate¹¹. Learn by examples the detailed methodology to cooling load calculations¹². Learn the functional parameters of software programs such as TRACE 700 and CHVAC

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Research Project RP-1199
developed two new
residential heating and
cooling loads calculation
procedures: Residential Heat
Balance (RHB), a detailed

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heat balance method that
requires computer
implementation;
and Residential Load Factor
(RLF), a simplified
procedure suitable for hand
or spreadsheet use.

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