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The ASHRAE Heat Balance Method states that the “ sum of all space instantaneous heat gains at any given time does not necessarily (or even frequently) equal the cooling load for the space at that same time ”. Figure 2

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attempts to convey this phenomenon by demonstrating the time delay associated with the 'Gains vs Loads' discussion.

ASHRAE Heating & Cooling Load Calculations | Discoveries | IES

Look inside . The Complete Applications-Oriented Resource for Load Calculations. This second edition of Load Calculation

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Applications Manual, available in both I-P and SI units, is an in-depth, applications-oriented reference that provides clear understanding of the state of the art in heating and cooling load calculation methods, plus the tool and resources needed to implement them in practice.

**Load Calculation
Applications Manual**

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- **ASHRAE**

With more than 57,000 members from over 132 nations, ASHRAE is a diverse organization dedicated to advancing the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world.

**Fundamentals of
Heating and Cooling
Loads - ASHRAE**

ASHRAE Handbook --
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Fundamentals Chapter:
Residential Cooling and
Heating Load
Calculations (Clicking
on a company's name
will take you to their
web site. See the
Master List for all
commercial resources.)

**Residential Cooling
and Heating Load
Calculations -
ASHRAE**

This manual is the
fourth in a series of
load calculation

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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.

**Load Calculations
Applications Manual
(I-P) - ASHRAE**

In a cooling load estimate, heat gain from all appliances — electrical, gas, or steam — should be

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taken into account.

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

29.8 2001 ASHRAE Fundamentals Handbook (SI)

ASHRAE Technical
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Resource Group,
TRG4.IAQP Indoor Air
Quality Procedure
Development With
more than 57,000
members from over
132 nations, ASHRAE is
a diverse organization
dedicated to advancing
the arts and sciences
of heating, ventilation,
air conditioning and
refrigeration to serve
humanity and promote
a sustainable world.

Section 4.0 — Load

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**Calculations and
Energy
Requirements**

The total building cooling load consists of heat transferred through the building envelope (walls, roof, floor, windows, doors etc.) and heat generated by occupants, equipment, and lights. The load due to heat transfer through the envelope is called as external load, while all other

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**Cooling Load
Calculations and
Principles**

Source: MJ8 and
ASHRAE Comfort Zone
Chart. Cooling Season
= 75 F, 50% RH.

Heating Season = 70 F,
30% RH. Indoor Design
Conditions. ... (a
Building America
Research Team\)
will highlight the key
criteria required to

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create accurate
heating and cooling
load calculations,
following the guidelines
of the Air Conditioning
Contractors of America
...

HVAC Right-Sizing Part 1: Calculating Loads

Heating and cooling
load calculations are
the primary design
basis for most heating
and air-conditioning
systems and

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components. These calculations affect the size of piping, ductwork, diffusers, air handlers, boilers, chillers, coils, compressors, fans, and every other component of systems that condition indoor environments.

CHAPTER 18. NONRESIDENTIAL COOLING AND HEATING LOAD ...

This heating system

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sizing calculator is based on the ASHRAE standards. This calculator will calculate heating loads for air conditioning systems for residential places.

Important notes:

Weather and climatic information available

Table 1A & 1B, Chp.

27, 2001 ASHRAE

Fundamental

Handbook; SHR =

Sensible Load/Total

Load Use: 0.65 for

Tropic, 0.70 Humid,

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0.75 Avg., 0.80 Dry,
0.85 Arid

**Download ASHRAE
Heat Load
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This chapter covers cooling and heating load calculation procedures for residential buildings, including detailed heat-balance methods that serve as the basis for cooling load calculation, Simple

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cooling load calculation procedures, suitable for hand calculations, are provided for typical cases. Straightforward heating load calculation procedures are also included.

CHAPTER 17. RESIDENTIAL COOLING AND HEATING LOAD CALCULATIONS

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**Heating Load
Calculation Manual**

ASHRAE (a bunch of engineers who know a thing or two about HVAC) has a table of outdoor design temperatures for winter and summer. ACCA (the trade association for air conditioning contractors) bases its Manual J load calculation procedure on the ASHRAE design temperatures.

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We Are the 99% — Design Temperatures & Oversized HVAC Systems

Cooling Load: The higher tonnage and airflow values correspond to apartments in hotter/more humid climates with larger amounts of external fenestration (windows and/or skylights).

Auditorium, Church,

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Theater: Description:
Auditoriums, churches
and theaters are
characterized by a high
people density values.
These people also have
a sedentary

HVAC Rule of Thumb Calculator - Engineering Pro Guides

- Minimum Efficiency:
New or replacement
heating and cooling
equipment must meet
or exceed the

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minimum efficiency
rating required by
Federal law.

Commercial Buildings -
ANSI/ASHRAE/ACCA
Standard 183: Design
loads associated with
Heating, Ventilating
and Air Conditioning
(HVAC) of a
Commercial

**GENERAL BUILDING
ENVELOPE - New
York**

The CLTD/CLF/SCL
(cooling load

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temperature
difference/cooling load
factor/solar cooling
load factor) cooling
load calculation
method was first
introduced in the 1979
ASHRAE Cooling and
Heating Load Manual
(GRP-158) The
CLTD/CLF/SCL Method
is regarded as a
reasonably accurate
approximation of the
total heat gains
through a building
envelope for the

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purposes of sizing
HVAC equipment.

**Cooling load
temperature
difference
calculation method**

...

heating design shall be based on the 99.6% DB. Cooling towers shall be designed on the basis of the 0.4% dew point temperature. Clinical facilities shall in general be designed to the 1.0% DB/MCWB

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temperature for
cooling, and 99% level
for heating. Cooling
towers shall be
designed on the basis
of the 1.0% Wet Bulb
temperature.

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ecf8427e.