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on page 22

outlines how to

calculate the

amount of

moisture that

must be added to

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maintain a

constant

relative

humidity.

Relative

humidity (RH) is

the percentage

of water vapour

present in the

air relative to

the amount that

would be present

in the

equilibrium

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Equilibrium °F

(68 100% RH

Water vapor

content 0.00108

lb/cu.ft

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2-72-4, 2010).

The procedure described in this manual to calculate the cooling thermal loads uses the Radiant Time Series Method (RTSM) proposed and recommended

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by the “American
Society of
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Refrigerating
and Air-
conditioning
Engineers”

(ASHRAE). More
information on
this calculation
method can be
found in the
“Radiant Time
Series Method

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engineers,

contractors, and

technicians to

perform field-

based cooling

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procedure for
sizing
residential duct
systems. This
procedure uses

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(ANSI/ACCA,
Eighth Edition)

heating and
cooling loads
to determine
space air
delivery
requirements.

This procedure
matches duct
system
resistance

(pressure drop)

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to blower

performance (as
defined by
manufacturer's

blower

performance

tables). This

assures that

appropriate

airflow is

delivered to all

rooms and

spaces; and that

system airflow

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is compatible with the operating range of primary equipment. The capabilities and sensitivities of this procedure are compatible with single-zone systems, and multi-zone (air zoned) systems.

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The primary
equipment can
have a multi-
speed blower
(PSC motor), or
a variable-speed
blower (ECM or
constant torque
motor, or a true
variable speed
motor). Edition
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specifically identifies normative requirements, and specifically identifies related informative material.

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AE) Calculation

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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

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

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

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application. For
comfort
applications,
the required
indoor
conditions are
fixed by the
criterion of
thermal comfort,
while for
industrial or
commercial
applications the
required indoor

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Calculations are fixed by the particular processes being performed or the products being stored.

Generally, heating and cooling load calculations involve a systematic and stepwise

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Calculation procedure, which
Applications Manual
account for all
the building
energy flows. In
practice, a
variety of
methods ranging
from simple
rules-of-thumb
to complex
transfer
function methods
are used to
arrive at the

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building loads.

This short quick
book provides a
procedure for
preparing a
manual

calculation for
cooling load
using CLTD/CLF
method suggested
by ASHRAE and
includes two
detailed
examples. For

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more advanced methods such as TFM, the reader should refer to ASHRAE and other handbooks. Learning Objective At the end of this course, the student should be able to: 1. Understand the basic terminology and

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definitions

related to air
conditioning

load

calculations 2.

Explain the

differences

between heating

and cooling load

design

considerations 3.

Explain the

difference

between 1) space

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heat gain v/s
cooling load 2)
space cooling
v/s cooling load
and 3) external
loads v/s
internal loads4.
Differentiate
between sensible
and latent
loads5. List
commonly used
methods for
estimating

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cooling loads 6.
Estimate the
internal and
external cooling
loads using
CLTD/CLF method
from building
specifications,
design indoor
and outdoor
conditions,
occupancy etc.
7. Describe
various

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

Describe various
equations and
information
sources to
determine the
solar

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transmission

load through
glazing.9.

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equations and
information
sources to
determine the
internal load
due to people,
lights and power
appliances.10.

Determine the
supply air flow

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functional
parameters of
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programs such as
TRACE 700 and
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comprehensive
source of
theory,

procedures and
data for cooling
and heating load
calculations for
other than
residential
buildings.

The Air
Conditioning

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practice - to
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procedures or on
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components. This

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revision of the
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features the use
of SI units
throughout,
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illustrations. *

Helps engineers
quickly come up
with a design
solution to a
required air
conditioning
system. *

Includes issues
from comfort to
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calculations. *

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systems deal
with hot topic
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course for some
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notes of metric,
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concrete and
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processing of
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issues,
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products and

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Provide

essential, up-to-

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codes,

standards, and

guidelines, all

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