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*How To Use Duct
Sizing with CFM and
Friction Loss Table*

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Return Air~~

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7- Fundamentals of
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Software and Reports

Duct Design Basics
Introduction Blower
Doors, Duct Testing
& Manual J with
Wrightsoft's Alex
Meaney *Manual J*

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loss reports for Permit
– Residential HVAC*

Design Service

Perform Load

Calculations in

MINUTES – FAST

and EASY! Right-J

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with manual J, S

Manual J

An ACCA approved

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manual J uses well-documented tables and building codes to determine the heating and cooling requirements for the home. Many utilities and building inspectors will only accept an ACCA approved Manual J (version 8) for rebates and permit applications.

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*Free ACCA Manual J
Software | Instant
Load Calculations ...*

ACCA Manual J specifies that the # of occupants in a home is equal to the # of bedrooms + 1. The number of occupants is calculated by accounting for two (2) per Master Suite and one (1) for each

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additional bedroom.
ACCA also recommends an additional whole house lighting and appliance load totaling 1,200 BTU_h to be placed in the kitchen.

*What is Manual J?
What is residential
load calculation ...
ACCA's Manual J is*

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the first step in the design process of a new heating and air conditioning system.

By following the Manual J

methodology, HVAC designers are able to accurately determine

the total amount of heat that is lost

through the exterior of a home during the cooler months, and

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the total amount of heat that is gained through the exterior of a home during the warmer months.

*Manual J Load
Calculations? Manual
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ConsultAir*

A load calculation program based on Manual J, designed to be quick and easy to

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use. It calculates the amount of heating and cooling BTU's needed for the whole house (Block Load) or a room by room load.

HVAC Load

*Calculation - Manualj
- Whole House*

Loadcalc

I posted the square feet per ton results we got from 40 Manual J

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load calculations in hot and mixed climates. The average was 1,431, but you can't use that to size air conditioners. You have to do an actual load calculation.

Those 40 results ranged from a low of 624 to a high of 3,325 sf/ton.

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Calculations vs. Rules of Thumb ...

The latest version of Cool Calc Manual J is all about simplicity.

We consolidated several screens and improved the map tracing capabilities.

Users are now guided through the process from start to finish so even users with little experience can

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successfully complete
a load calculation.

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...

The Eighth Edition of
Manual J (MJ8 ACCA/
ANSI) is the American
National Standard for
residential heating
and cooling load
calculations. Version

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Two of Manual J reorganizes the presentation of material provided in previous versions, and provides guidance on using an abridged version of Manual J (MJ8AE),

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Manual J Calculations

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Are Used To Determine The Amount Of Heat The House Loses In Winter And Gains In Summer. Manual J: A/C Load Calculations may be done room-by-room for the whole house, which allows you to determine how much conditioned air, in cubic feet per minute CFM each

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room needs for both heating and cooling.

*Manual J Calculation
Service - Manual J -
HVAC Heat Load ...*

Manual-J and Manual-D are also required by ENERGY STAR

Version 3. If you want to be a part of this program you must be able to accurately complete the load

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calculations, duct design, and the HVAC System Quality Installation Contractor Checklist. So what if your state has not passed the 2009 or 2012 IECC?

*Manual-J Load
Calculations Required
by State Code*

Especially in terms of
Manual J® residential

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load calculation, make sure that you only use ACCA-approved software in order to ensure compliance with building codes. Manual J® , Manual D® , and Manual N® are all federally-registered trademarks of ACCA.

*Approved Software -
ACCA*

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The Manual J residential calculation is actually the proper method for sizing an HVAC unit—a technique designed by the Air Conditioning Contractors of America (ACCA). This calculation is commonly performed with complex computer programs,

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which require time,
energy, and money.

*HVAC Load
Calculator - Manual J
/ ServiceTitan*

Manual J Is for
determining how
much heat the house
loses in winter and
gains in summer. You
do this room-by-room
for the whole house,
which allows you to

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determine how much conditioned air each room needs for both heating and cooling. It factors in all the surfaces of the building envelope, with their areas and insulation levels.

*Manual J, S and D -
Pro Energy
Consultants*

Making Sense of
Page 25/35

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Manual J HVAC contractors are in the environmental air conditioning business. This is defined as treating the air to control temperature, humidity, cleanliness, ventilation, and circulation to meet human comfort requirements.

Use Manual J Load
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Calculations - High- Performance HVAC Today

You see, the ACCA's Manual J is set up to calculate the right size HVAC system for certain default temperatures. If you go by the book, you'll end up with a system that cools your house to 75 degrees on the hottest day of the year

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and heats it to 70 degrees degrees on the coldest day. That's fine for most people.

*What Happens During
a Manual J? | PV
Heating & Air*

ManualJ - Home
Marrs HVAC

Services, LLC is a
leading international
Mechanical Design

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service. Our innovative designs and effective pricing promote professionalism worldwide. We work with Homeowners, HVACR companies, General Contractors, & Engineers to execute our commitment of Energy efficiency and total comfort.

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Manual J - Home

The Manual J

procedure implements

2 variations on

calculating heating

and cooling loads:

"Block load" and

"Room by room".

Block load calculates

heating and cooling

loads for the entire

conditioned space

whereas room-by-

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room provides a more accurate heating and cooling load calculation for individual rooms.

Load Calculation

Type - Manual J

What is Manual J, S,
and D

CALCULATIONS?

They are not just
letters in the alphabet,
but standards and a

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protocol developed by Air Conditioning Contractors of America (ACCA) for the proper design and installation of HVAC equipment and ductwork for air conditioner efficiency. Each standard is important and plays a part in the standard that follows.

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*Manual J S and D
Calculations | The
Differences | E3
Power*

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Platform, Standard
Edition (J2SE)
Development Kit
(JDK) 5.0,
ScreenHunter Free,
jAlbum, and many
more programs

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