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Cfm Duct Size Chart

Flex duct = .05" on most metal duct calculator Round metal pipe = .06" on most metal duct calculators FIELD DUCT SIZING CHART Rectangular sheet metal duct = .07" on most metal duct calculators

NEW DUCT SIZING CHART - HVACDirect.com

Title: Duct System Sizes and Airflow Quick Chart Created Date: 8/21/2006 11:56:03 AM

Duct System Sizes and Airflow Quick Chart

FIELD DUCT SIZING CHART Rectangular sheet metal duct = .07" on most metal duct calculators Step One - Identify the volume of air that will be passing through the duct Step Two - Select the duct size from the table that can carry that volume of air Step Three - If desired airflow exceeds the CFM rating , increase to the next duct size

NEW DUCT SIZING CHART - Building in California

Note also the Return air grille sizing formula at the top of the chart. "For the same 2.5 ton system with a filter grille, the grille size would need to be what size?" Asked Rick "We usually use a 20 x 20 for 2.5 ton." Said the tech 20 x 20 x 2 = 800 "800 CFM...Well that's big enough for a 2 ton, but a 20 x 25 may be a better choice."

Tech Tips: Duct Sizing Chart - Coburn Supply

• The chart is based on metal duct. Flex duct has a higher pressure drop and as such may require the size shown on this guide be increased by 1 round size for up to 800 CFM and 2 round sizes above 800 CFM to insure proper airflow. Failure to do so will result in high velocity and very likely, loss of airflow.

Residential Duct Sizing Guide - Virginia Air

This "Equal-Friction" method of duct sizing should be adequate for normal residential furnace heating and air conditioning applications. Larger volumes or higher static pressures should be dealt with on an individual job basis. Air Volume Equivalent Round Air Volume CFM 4" 6" 8" 10" 12" Duct (inches) CFM. 50 6 x 4 550 75 6 x 4 675 100 8 x 4 6 x 6 6 100 125 10 x 4 6 x 6 7 125 150 10 x 4 8 x 6 7 150 175 12 x 4 8 x 6 8 175 200 14 x 4 8 x 6 8 200 225 16 x 4 10 x 6 8 225 250 16 x 4 10 x 6 9 250 ...

Duct Sizing Chart - Hamilton Home

Duct type: Metal Ductboard Flex Size by: Friction rate Velocity Friction Rate: per 100 ft. in/wg Duct TEL : ft. * include fittings in the Duct TEL Enter either: CFM: or Duct Size: CFM:

Online Ductulator - Ocean HVAC, Manual] Load calculator

DUCT ELBOWS, RADIUS THROAT. No. 14 Up to 11" 10' EL 12" to 21" 15' EL 22" to 27" 20' EL 28" to 33" 25' EL. DUCT ELBOWS, SQUARE THROAT. No. 16 Up to 11" 40' EL 12" to 15" 55' EL 16" to 21" 75' EL 22" to 27" 100' EL 28" to 33" 125' EL. RETURN AIR SYSTEM. No. 810 Cold air boot, collar, duct 45- 65' EL.

AIR FLOW DYNAMICS & DUCT SIZING REFERENCE GUIDE

Sheet Metal Duct Friction Loss Calculator. 1. Enter Duct Airflow (CFM), Duct Velocity (FPM), Duct Length and the number of bends. 2. Read Round Duct Diameter (inches) and Friction Loss Per 100' of duct (inches of water).

Duct Calculator - CDICurbs

2000 cfm (0.94 m3/s) of air flows through a 10 x 12 inches rectangular duct. The friction loss according the table above is 0.81 inches water gauge per 100 ft duct (aprox. 6.6 Pa/m). The velocity in the rectangular duct is v = (2000 cfm) / (((10 inches) (1/12 ft/inches)) ((12 inches) (1/12 ft/inches)))

Equivalent Diameter - Rectangular and Circular HVAC Ducts

Installation Guide (V.8.4) 52. Table 4.2 Return Air Duct Installation Sizes. (Based on .05 inches of pressure drop per 100 ft.) Round Duct Rectangular Duct CFM Dia. WxH WxH WxH WxH WxH WxH. 80 6x6 7x5 9x4 90 7x6 8x5 10x4 100 7 8x6 9x5 11x4 125 7x7 9x6 11x5 13x4 150 8x7 9x6 12x5 15x4 175 8 8x8 9x7 10x6 13x5 17x4 200 9x8 10x7 11x6 14x5 18x4 225 9x8 10x7 12x6 15x5 20x5 250 9 9x9 10x8 11x7 13x6 17x5 21x5 275 9x9 11x8 12x7 15x6 20x5 22x5 300 10x9 12x8 ...

Table 4.2 Return Air Duct Installation Sizes (Based on .05 ...

To size the branch ducts, select the duct size at the intersecting lines of the friction rate and the room CFM. Using a duct calculator. For sizing either the trunks or branches simply align the friction rate with the CFM and the duct size will be displayed NOTE: Whether using a friction chart or duct calculator, always check the velocity on ...

How to size and design ducts and ductwork

Online Ductulator Free Duct Size Calculator. Ductulator calculates duct dimensions using equal friction method or velocity method. It calculates both rectangular and round duct dimensions. And it shows the velocity and/or static pressure loss of air for both types of duct shape. It works with I-P units (United States, United Kingdom) and Metric units (Canada, Europe, Russia, Middle East, Asia ...

Online Ductulator Duct Size Calculator Ductcalc | Online ...

Rectangular duct is rounded up to the nearest 1/4 inch. Calculations are for 60°F dry air at sea level, from 5 to 3000 cfm (approximately standard air which is 0.075lb da /ft³). If "ASHRAE 2013" is selected, Flexible roughness is 0.003 ft when straight and fully stretched tight at 0% compression (adjusted at other compressions), otherwise the ...

Residential Air Duct Calculator - EfficientComfort.net

Step One - Identify the volume of air that will be passing through the duct Step Two - Select the duct size from the table that can carry that volume of air Step Three - If desired airflow exceeds the CFM rating , increase to the next duct size Step Four - Listed CFM is based on typical field results and may vary, install dampers Step Five - If duct run exceeds 25', or has excessive ...

Field Duct Sizing Chart | Duct (Flow) | Tools | Free 3D ...

1. Velocity Duct Sizing Chart. Residential Main Supply Trunk Ducts, Non-zoned systems. (target velocity of 800FPM used) Listed by air quantity, round duct size and nearest square duct size. 500CFM 11"Ø or 10 X 10 1,300CFM 16"Ø or 14 X 16 600CFM 12"Ø or 10 X 12 1,400CFM 18"Ø or 16 X 16 700CFM 12"Ø or 10 X 12 1,500CFM 18"Ø or 16 X 18 800CFM 14"Ø or 12 X 14 1,600CFM 18"Ø or 16 X 18 900CFM 14"Ø or 12 X 14 1,700CFM 20"Ø or 18 X 18 1,000CFM 16"Ø or 14 X 14 ...

Residential Main Supply Trunk Ducts, Non-zoned systems

Use the online duct calculator (see References) and calculate the needed flex duct size. Select the duct type on the pull down menu. Input the required CFM in the box below that. Click "calculate" and you will see the size of flex duct you need for that room. The flex duct size may be different than the hard duct that runs to that room.

How to Size a Flex Duct | Hunker

Duct sizing equal pressure method. On the chart we start by drawing a line from 0.65 pa/m all the way up and then draw a line across from our required volume flow rate, in this case for section C we need 0.21m3/s.