

between duct size and flow.

HVAC contractors should also use ACCA Manual J, 8th edition, for the load calculation, Manual S for selecting the equipment, and Manuals RS and T for general principles in designing the layout for optimum comfort.

CFM of Flex Duct at Given Velocities								
Diameter (inches)	Area (inches ²)	Velocity (feet per minute)						
		250	300	350	400	450	500	550
4	12.6	22	26	31	35	39	44	48
5	19.6	34	41	48	55	61	68	75
6	28.3	49	59	69	79	88	98	108
7	38.5	67	80	94	107	120	134	147
8	50.3	87	105	122	140	157	175	192
9	63.6	110	133	155	177	199	221	243
10	78.5	136	164	191	218	245	273	300
12	113.1	196	236	275	314	353	393	432
14	153.9	267	321	374	428	481	535	588
16	201.1	349	419	489	559	628	698	768
18	254.5	442	530	619	707	795	884	972
20	314.2	545	654	764	873	982	1091	1200
22	380.1	660	792	924	1056	1188	1320	1452
24	452.4	785	942	1100	1257	1414	1571	1728
26	530.9	922	1106	1290	1475	1659	1844	2028
28	615.8	1069	1283	1497	1710	1924	2138	2352
30	706.9	1227	1473	1718	1963	2209	2454	2700
Adapted from "Design Process For: Sizing Cooling and Heating System Capacity, Room Air Flows, Trunk and Runout Ducts, and Transfer Air Ducts"								
Armin Rudd, Building Science Corporation, Westford MA 01886								

Duct Sizing Recommendation Chart

Based on ACCA Duct Sizing Rule

39 fpm rate (3WGT100 ft EL)

Duct Diameter	Flex Duct	Metal Duct
4"	0-25 CFM	0-36 CFM
5"	26-50 CFM	37-65 CFM
6"	51-75 CFM	66-110 CFM
7"	75-116 CFM	111-160 CFM
8"	116-160 CFM	161-230 CFM
9"	161-240 CFM	231-310 CFM
10"	241-290 CFM	311-410 CFM
12"	291-460 CFM	411-660 CFM
14"	461-700 CFM	661-1000 CFM
Chart source: unpublished field research performed by Adam Deek & Mark Newey, Southface Energy Institute, www.southface.org		

Manual D Duct Size Chart

**Sheet Metal and Air Conditioning
Contractors' National Association
(U.S.)**



Manual D Duct Size Chart:

How to Size HVAC Equipment Step by Step Charles Nehme, The proper sizing of Heating Ventilation and Air Conditioning HVAC equipment is arguably the most critical step in designing an efficient comfortable and durable building system Yet it remains one of the most misunderstood and frequently misapplied processes in the construction industry Far too often equipment is selected based on rough rules of thumb arbitrary square footage estimates or the dangerous notion that bigger is better This inevitably leads to significant problems high energy bills poor humidity control making spaces feel clammy and uncomfortable shortened equipment lifespan due to constant cycling and pervasive comfort complaints This book How to Size HVAC Equipment Step by Step is written to close that gap It is a comprehensive practical guide designed to demystify the rigorous process of load calculation and equipment selection We move beyond simple guesswork and dive into the accredited methodology used by top tier engineering consultants worldwide specifically utilizing the standards set forth by the Air Conditioning Contractors of America Manuals J S and D Our approach is built on a foundation of fundamental engineering principles but is structured in a clear sequential and highly accessible manner We will guide you from the initial collection of site and building data through the detailed calculations of sensible and latent heat gains and losses and finally to the precise selection of the right sized equipment and the design of the necessary ductwork Whether you are a seasoned professional seeking to refine your methods or a newcomer looking for a structured entry into this essential field this guide provides the clarity and authority you need to ensure every system you design or install operates optimally delivering peak comfort maximum efficiency and reliable performance for decades to come Duct Design for Residential Winter and Summer Air Conditioning and Equipment Selection ,1984 **Residential Duct Systems** Hank Rutkowski,2011

Building an Affordable House 2nd Edition Fernando Pages Ruiz,2024-03-12 Unlock the secrets to building high quality affordable homes with this thoroughly updated version of the classic Building an Affordable House This comprehensive guide is perfect for builders developers and homeowners looking to maximize their construction or remodeling budget without sacrificing quality Whether you re building a new home or renovating an existing one this book provides the tools and knowledge you need to achieve high value low cost results Transform your construction projects with strategies that balance marketability quality and affordability It s a detailed roadmap that takes the speculation out of building and provides the builder with an elusive commodity in the construction industry peace of mind Plus keeping sustainability at the forefront of building decisions isn t simply good for the environment it s good for the homeowner s bottom line This second edition of Building an Affordable House provides an updated sensibility to the building decisions every homeowner must make in today s challenging construction environment whether building a brand new house or renovating one they love Key Features Cost Saving Techniques Discover insider methods used by top homebuilders to save thousands on construction costs Budget Friendly Design Learn how to add curb appeal and functionality without breaking

the bank Sustainable Practices Incorporate eco friendly building techniques that benefit both the environment and your wallet Step by Step Guidance Detailed instructions on everything from foundations to finishes ensuring you get the most value for your investment Expert Insights Benefit from the author s 30 years of experience in the construction industry with practical tips and real world examples *Environmental Systems Library: [manual]*. Air Conditioning Contractors of

America,1955 **Residential Comfort System Installation Standards Manual** Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1998 *Official Compilation, Rules and Regulations of the State of Georgia* ,1985

Heating, Ventilating, Air Conditioning Guide ,1959 **The Journal of the Institution of Heating and Ventilating Engineers** Institution of Heating and Ventilating Engineers (Great Britain),1970 **Building Services Engineering Spreadsheets** David V. Chadderton,1997 This text is a versatile user friendly tool for design calculations It aims to fill the gap between manual calculation methods using a calculator and dedicated software costing thousands of pounds

American Society of Heating and Ventilating Engineers Guide ,1959 **Military Standard** United States. Dept. of Defense,1970 *Building Technology* Benjamin Stein,1996 The complete guide to building technology This comprehensive guide provides complete coverage of every aspect of the building technologist s profession It details design and installation procedures describes all relevant equipment and hardware and illustrates the preparation of working drawings and construction details that meet project specifications code requirements and industry standards The author establishes procedures for professional field inspections and equipment operations tests provides real world examples from both residential and nonresidential construction projects and makes specific references to code compliance throughout the text This new edition incorporates changes in building codes advances in materials and design techniques and the emergence of computer aided design CAD while retaining the logical structure and helpful special features of the first edition More than 1 100 drawings tables and photographs complement and illustrate discussions in the text Topics covered include Heating ventilating and air conditioning systems equipment and design Plumbing systems equipment and design Electrical and lighting systems equipment and design Testing adjusting and balancing procedures for all building systems Every aspect of the building technologist s profession from the creation of working drawings through on site supervision and systems maintenance Extensive appendices include conversion factors duct design data test report forms for use in field work design forms and schedules for electrical HVAC and plumbing work and more *Mechanical Engineering Reference Manual* Michael R. Lindeburg,1990 *Institution of Heating and Ventilating Engineers Journal* Institution of Heating and Ventilating Engineers (Great Britain),1970 [Whole House Contracting Protocols Project: Reference manual for instructors : best practice protocols for home performance contractors](#) ,2007 **Industrial Hygiene Engineering** John J. Talty,1998-12-31 Provides an advanced level of study of industrial hygiene engineering situations with emphasis on the control of exposure to occupational health hazards Primary attention is given to ventilation noise and vibration control heat stress and industrial

illumination Other topics include industrial water quality solid waste control handling and storage of hazardous materials personal protective equipment and costs of industrial hygiene control **Teaming for Efficiency** ,2002 **Residential Building Design and Construction** Jack H. Willenbrock,H. B. Manbeck,Michael G. Suchar,1998 The technical presentation of the material is enriched with enough detail to be suitable for academic use in residential construction construction science construction management and building technology programs at universities and colleges while remaining clear enough to be a valuable resource for homebuilders and building code officials *Consulting Engineer* ,1963

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