

DUCTULATOR® SI UNITS

The required air flow rate in liters/second (L/s - outer blue and red bands) is established first. With only one of the following factors known, the other three are found from a single setting of the Ductulator.

1. Friction loss in Pascals (Pa) per meter of equivalent length. (Inner blue band)
2. Desired velocity in meters/second (m/s) in round duct. (Inner red band)
3. Round duct diameter in millimeters (mm) (Window)
4. Dimensions for rectangular ducts (mm) (Green bands)

Procedure: With the friction loss per meter of duct known, set this friction loss (inner blue band) opposite the required L/s. The resulting velocity in round duct (inner red band) coincides with established L/s in outer band. Round duct diameter is indicated in the window by the black arrow. Various equivalent rectangular duct sizes are read from the green bands.

Example: Assume a 5000 L/s air flow rate with a friction loss of 1 Pa per meter of duct.
A 9.3 m/s velocity is read opposite the 5000 L/s from the inner red band.
Round duct diameter is 835 mm.

Equivalent rectangular duct dimensions are 550 x 1100, 650 x 1000, 750 x 800, etc.
A similar procedure is used regardless of which one of the four factors is known.
Approximate values

SI to I-P conversions: The equivalent I-P duct sizes for any single setting of the Ductulator are read directly from the I-P scales on the reverse side. The equivalent air flow rate is obtained by converting L/s to CFM. $L/s \times 2.119 = CFM$. The corresponding friction loss and velocity are then read on the I-P scales.

CONVERSION TABLE I-P to SI Units

inch x 25.4	= millimeter (mm)
Cubic Foot/Minute (CFM) x 0.4719	= liter/second (L/s)
Foot/Minute (FPM) x 0.080 x 1	= meter/second (m/s)
inch H ₂ O/100 Feet x 5.176	= 1 Pascal/meter (Pa/m)



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Duct Sizing Guide Using Ductulator

Arturo Cuomo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Duct Sizing Guide Using Ductulator:

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

Simplified Design of HVAC Systems William Bobenhausen, 1994-04-14 A practical overview of what to consider when designing a building s heating cooling ventilating and humidifying systems along with their space power control and other requirements Includes the latest concepts applications basic design problems and their solutions Packed with examples to facilitate understanding

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

Official Bulletin Heating, Piping and Air Conditioning Contractors National Association,1951

Air Conditioning Journeyman's Exam Book John Gladstone,1984

The HPAC&V Contractor's Reference Book and License Review John Gladstone,George Perpich,1987

Energy Primer, Solar, Water, Wind, and Biofuels Richard Merrill,Thomas E. Gage,1978

Heating, Ventilating, and Air-conditioning Systems Estimating Manual A. M. Khashab,1984

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