

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, 600 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 0.085.....	= meter/second (m/s)
Inch H ₂ O/100 Feet x 8.176.....	= 1 Pascal/meter (Pa/m)



TRANE™

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Guide Using Manual Ductulator

Rex Miller, Mark R. Miller



Guide Using Manual Ductulator:

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diagnosing a noise HVACs and it maintenance procedures

The HVAC/R Professional's Field Guide to Universal

R-410a Safety John Tomczyk, Joe Nott, Dick Shaw, 2002 This manual was developed to provide field service personnel with the necessary training and practical knowledge to safely perform service on systems containing R 410A and R 407C In addition this manual includes information on R 22 phase out appropriate refrigerant and oil applications service techniques as well as safe handling of R 410A It contains all the information technicians will need to prepare for their R 410A safety certification

Commercial Low Pressure, Low Velocity Duct System Design Hank Rutkowski, 1990

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Duct Systems - Manual D Acca, Hank Rutkowski, 2017-02 The Third Edition of ANSI ACCA Manual D is the Air Conditioning Contractors of America procedure for sizing residential duct systems This procedure uses Manual J ANSI ACCA Eighth Edition heating and cooling loads to determine space air delivery requirements This procedure matches duct system resistance pressure drop 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 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 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 Three Version 2.50 of Manual D D3 specifically identifies normative requirements and specifically identifies related informative material

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