

AIR FLOW RATE - L/s

FRICTION LOSS PER METER OF DUCT - Pa

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.

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 x 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 0.0004719.....	= meter/second (m/s)
Inch H ₂ O/100 Feet x 8.176.....	= 1 Pascal/meter (Pa/m)



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