

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 0.3048.....	= meter/second (m/s)
Inch H ₂ O/100 Feet x 8.176.....	= 1 Pascal/meter (Pa/m)



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Guide Using Manual Ductulator

John Tomczyk, Joe Nott, Dick Shaw



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Table of Contents Guide Using Manual Ductulator

1. Understanding the eBook Guide Using Manual Ductulator
 - The Rise of Digital Reading Guide Using Manual Ductulator
 - Advantages of eBooks Over Traditional Books
2. Identifying Guide Using Manual Ductulator
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guide Using Manual Ductulator
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guide Using Manual Ductulator
 - Personalized Recommendations
 - Guide Using Manual Ductulator User Reviews and Ratings
 - Guide Using Manual Ductulator and Bestseller Lists
5. Accessing Guide Using Manual Ductulator Free and Paid eBooks

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 - Guide Using Manual Ductulator Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guide Using Manual Ductulator
 - Highlighting and Note-Taking Guide Using Manual Ductulator
 - Interactive Elements Guide Using Manual Ductulator
- 8. Staying Engaged with Guide Using Manual Ductulator
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide Using Manual Ductulator
- 9. Balancing eBooks and Physical Books Guide Using Manual Ductulator
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide Using Manual Ductulator
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Guide Using Manual Ductulator
 - Setting Reading Goals Guide Using Manual Ductulator
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guide Using Manual Ductulator
 - Fact-Checking eBook Content of Guide Using Manual Ductulator
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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