

# 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 <sub>2</sub> O/100 Feet x 8.176..... | = 1 Pascal/meter (Pa/m) |



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# Trane Ductulator How To Use

**Lei Shi**



## Trane Ductulator How To Use:

**ASHRAE Handbook & Product Directory**, 1975      **Heating, Ventilating, and Air-conditioning Systems Estimating Manual** A. M. Khashab, 1984 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine      Analysis and Design of Heating, Ventilating, and Air-Conditioning Systems, Second Edition Herbert W. Stanford III, Adam F. Spach, 2019-04-01 Analysis and Design of Heating Ventilating and Air Conditioning Systems Second Edition provides a thorough and modern overview of HVAC for commercial and industrial buildings emphasizing energy efficiency This text combines coverage of heating and air conditioning systems design with detailed information on the latest controls technologies It also addresses the art of HVAC design along with carefully explained scientific and technical content reflecting the extensive experience of the authors Modern HVAC topics are addressed including sustainability IAQ water treatment and risk management vibration and noise mitigation and maintainability from a practical point of view      **HVAC Handbook** Robert Rosaler, 2004-07-27 This comprehensive handbook provides instant access to all the data calculations and equations needed for modern HVAC design Detailing up to the minute design methods operation and maintenance procedures and energy conservation and efficiency tools this essential reference provides a single volume solution to a myriad of HVAC design needs Includes both SI and metric units Controls and control systems Maintenance troubleshooting and repair Indoor air quality control      ASHRAE Handbook & Product Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1975      *TK! Solver for Engineers* Victor E. Wright, 1984      *Handbook of HVAC Design* Nils R. Grimm, Robert C. Rosaler, 1990 Formerly titled Handbook of HVAC Design the new edition of this well known reference offers HVAC engineers designers and technicians full coverage of all important aspects of the design operation and maintenance of heating ventilating and air conditioning HVAC systems Two thirds of the handbook has been revised and rewritten and it now features contributions from experts at top companies such as York Rockwell Honeywell and Sverdrup The book will enable users to produce very efficient and economical systems select and install today's most advanced equipment maintain high system performance comply with key codes and standards and understand the environmental impact of HVAC design      *HVAC Equations, Data, and Rules of Thumb, 2nd Ed.* Arthur Bell, 2007-09-26 The Latest Information and Tricks of the Trade for Achieving First Rate HVAC Designs on Any Construction Job HVAC Equations Data and Rules of Thumb presents a wealth of state of the art HVAC design information and guidance ranging from air distribution to piping systems to plant equipment This popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards Featuring an outline format for ease of use the Second Edition of this all in one sourcebook contains Updated HVAC codes and standards including the 2006 International Building Code Over 200 equations for everything from ductwork to air handling systems ASME and ASHRAE code specifications Over 350 rules of thumb for cooling heating ventilation and more New material

including coverage of the new single body of construction codes now used throughout the country Inside This Updated HVAC Design Guide Definitions Equations Rules of Thumb for Cooling Heating Infiltration Ventilation Humidification People Occupancy Lighting and Appliance Equipment Cooling Load Factors Heating Load Factors Design Conditions and Energy Conservation HVAC System Selection Criteria Air Distribution Systems Piping Systems General Hydronic Glycol Steam Steam Condensate AC Condensate Refrigerant Central Plant Equipment Air Handling Units Chillers Boilers Cooling Towers Heat Exchangers Auxiliary Equipment Fans Pumps Motors Controllers Variable Frequency Drives Filters Insulation Fire Stopping Automatic Controls Building Automation Systems Equipment Schedules Equipment Manufacturers Building Construction Business Fundamentals Architectural Structural and Electrical Information Conversion Factors Properties of Air and Water Designer s Checklist Professional Societies and Trade Organizations References and Design Manuals Cleanroom Criteria and Standards

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**Official Bulletin** Heating, Piping and Air Conditioning Contractors National Association,1951     **Sheet Metal Worker** ,1950     *New Pencil Points* Eugene Clute,Russell Fenimore Whitehead,Kenneth Reid,Elizabeth L. Cleaver,1950     *Heating, Plumbing and Air Conditioning Age* ,1951     **National Mechanical Estimator** Ottaviano Technical Services,Victor B Ottaviano,2001     **2023 Florida Mechanical Contractor - Vol 1** Upstryve Inc, Volume 1 of 2 Get one step closer to becoming a Florida Mechanical contractor with a prep course designed by 1 Exam Prep to help you conquer the required Florida State Mechanical Contractors Trade Knowledge examination Use a blended self study and course structure to tailor your prep to your individual learning style Course includes Highlighting and tabbing location for each required book so you can quickly and easily reference your materials during the exam Practice questions Testing taking techniques that are an indispensable part of these open book exams     Evaluation of Building Design/analysis Software for Microcomputers William Parry Bahnfleth,Dale Herron,Karen Ruby,1987     **National Mechanical Estimator** Victor B. Ottaviano,1993

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## **Table of Contents Trane Ductulator How To Use**

1. Understanding the eBook Trane Ductulator How To Use
  - The Rise of Digital Reading Trane Ductulator How To Use
  - Advantages of eBooks Over Traditional Books
2. Identifying Trane Ductulator How To Use
  - 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 Trane Ductulator How To Use
  - User-Friendly Interface
4. Exploring eBook Recommendations from Trane Ductulator How To Use
  - Personalized Recommendations
  - Trane Ductulator How To Use User Reviews and Ratings
  - Trane Ductulator How To Use and Bestseller Lists
5. Accessing Trane Ductulator How To Use Free and Paid eBooks
  - Trane Ductulator How To Use Public Domain eBooks

- Trane Ductulator How To Use eBook Subscription Services
- Trane Ductulator How To Use Budget-Friendly Options
- 6. Navigating Trane Ductulator How To Use eBook Formats
  - ePub, PDF, MOBI, and More
  - Trane Ductulator How To Use Compatibility with Devices
  - Trane Ductulator How To Use Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Trane Ductulator How To Use
  - Highlighting and Note-Taking Trane Ductulator How To Use
  - Interactive Elements Trane Ductulator How To Use
- 8. Staying Engaged with Trane Ductulator How To Use
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Trane Ductulator How To Use
- 9. Balancing eBooks and Physical Books Trane Ductulator How To Use
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Trane Ductulator How To Use
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Trane Ductulator How To Use
  - Setting Reading Goals Trane Ductulator How To Use
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Trane Ductulator How To Use
  - Fact-Checking eBook Content of Trane Ductulator How To Use
  - 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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