

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



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# Trane Ductulator How To Use

**Siddappa N.Byrareddy**



## Trane Ductulator How To Use:

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HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Arthur Bell, 2007-10-14 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

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## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Trane Ductulator How To Use**

In a world inundated with displays and the cacophony of quick communication, the profound energy and psychological resonance of verbal art often disappear into obscurity, eclipsed by the continuous assault of noise and distractions. However, set within the lyrical pages of **Trane Ductulator How To Use**, a captivating work of literary brilliance that impulses with organic emotions, lies an unforgettable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that magical opus guides visitors on an emotional odyssey, lightly revealing the latent potential and profound impact embedded within the delicate internet of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book's main subjects, dissect their captivating writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers' souls.

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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 a 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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