

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)



TRANE™

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Guide Using Manual Ductulator

Rex Miller, Mark R. Miller



Guide Using Manual Ductulator:

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 *HVAC Licensing Study Guide, Third Edition* Rex Miller, Mark R. Miller, 2018-01-24 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Ace the Major HVAC Licensing Exams Featuring more than 800 accurate practice questions and answers HVAC Licensing Study Guide Third Edition provides everything you need to prepare for and pass the major HVAC licensing exams This highly effective career building study resource is filled with essential calculations troubleshooting tips for the job site hundreds of detailed illustrations and information on the latest codes and standards You will get brand new coverage of troubleshooting for small motors and electrical equipment for HVAC This thoroughly revised study guide helps you Master the material most likely to appear on the ARI NATE ICE RSES and HVAC licensing exams Improve your test taking ability with 800 true false and multiple choice questions and answers Learn about current refrigerant usage and regulations Keep up with the most recent codes and standards Acquire the confidence skills and knowledge needed to pass your exam Covers key HVAC topics including Heat sources Heating systems Boilers burners and burner systems Piping systems Ductwork sizing Refrigerants Cooling and distribution systems Refrigeration equipment and processes Filters and air flow Maintenance servicing and safety Humidification dehumidification and psychrometrics EPA refrigerant reclaimers Heating circuits Safety on the job Trade associations and codes Troubleshooting for small motors Electrical equipment for HVAC *HVAC Licensing Study Guide, Second Edition* Rex Miller, Mark R. Miller, 2012-10-04 This fully updated study guide helps readers pass the HVAC licensing exam and serves as an on the job reference after the exam

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HVACs and its 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 Residential 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 *2019 Florida Air B Contractor Exam One Exam Prep*, 2019-03-20 Get one step closer to becoming a Florida Air B Contractor with a prep course designed by 1ExamPrep to help you conquer the required Air B Contractors Trade Knowledge examination Covered topics include topics with the requirements of services limited to 25 tons of cooling and 500 000 BTU of heating in any one system in the execution of contracts requiring the experience knowledge skill to install maintain repair fabricate alter extend or design central air conditioning refrigeration heating and ventilating systems including duct work in connection with a complete system TESTING INFORMATION SCOPE OF EXAM TEST TAKING TECHNIQUE Test Taking 101 Time Management Highlights Tabs Air Conditioning and Refrigeration Troubleshooting Handbook Contractors Manual 2017 Pipefitter's Handbook 3rd Ed 90A Installation of Air Conditioning and Ventilating Systems 90B Installation of Warm Air Heating and Air Conditioning Systems 96 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations NFPA 99 Healthcare Facilities 2015 SMACNA Fibrous Glass Duct Construction Standards 7th Ed HVAC Duct Construction Standards Metal and Flexible 3rd Ed Energy Systems Analysis and Management 2nd Ed Energy Efficient Building Construction 9th Ed 2017 Florida Building Code Mechanical 2017 Florida Building Code Fuel Gas 2017 Florida Building Code Energy Conservation 2017 Trane Air Conditioning Manual 6th Edition Trane Reciprocating Refrigeration Manual 67th Printing Rev March 1999 Trane Ductulator 1976 or later PRACTICE EXAMS AIR CONDITIONING AND REFRIGERATION TROUBLESHOOTING HANDBOOK Air Conditioning and Refrigeration Troubleshooting Handbook 25 Refrigeration Questions 1 Air Conditioning and Refrigeration Troubleshooting Handbook 25

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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
 - Guide Using Manual Ductulator Public Domain eBooks
 - Guide Using Manual Ductulator eBook Subscription Services
 - Guide Using Manual Ductulator Budget-Friendly Options

6. Navigating Guide Using Manual Ductulator eBook Formats
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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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