



ATCO RUBBER PRODUCTS, INC.

# 500 SERIES

## 25' Uninsulated UL 181 Class I Air Connector

### Description

ATCO's 500 Series is a UL 181 Class 1 Air Connector which meets the requirements of NFPA (90A & 90B). 500 Series is manufactured with a tough double ply duct wall construction. 25' lengths, which can easily be cut to desired length, are compressed and packed in small, easy to store cartons.

The 500 series is air-tight and is designed for low to medium operating pressures in HVAC systems.

### Construction

A double lamination of tough metallized polyester encapsulates a steel wire helix and forms the air-tight uninsulated flexible duct of ATCO's Series-500

### Applications

Series 500 is used as a supply, return and exhaust duct in low-to-medium pressure heating, air conditioning and exhaust systems. ATCO's Series 500 can be used in an air distribution system, connecting ducts, mixing boxes, diffusers, light troffers, room inlets or other terminal devices where an uninsulated flexible air connector is required.

***Should not be used to vent appliances for cooking, heating and clothes drying unless approved and recommended by the appliance manufacturer.***

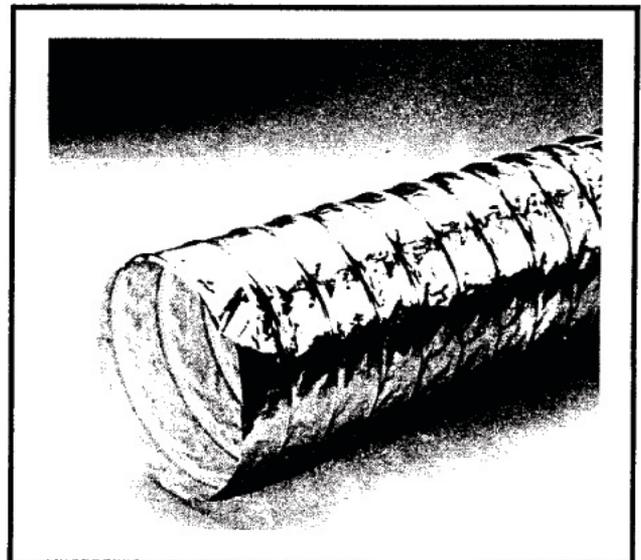
### Code Compliance\*

UL 181, NFPA 90A & 90B, SBCC, BOCA, Cities of Chicago, New York, County of Dade (Florida).

\*ATCO recommends that you check with the local code body having jurisdiction in your area to determine applicable codes.

### Features and Benefits

- Durable metallized Polyester Construction
  - Tear and puncture resistant
  - Low maintenance
- Flexible and Maintains Shape
  - Easily handled and installed
  - Low labor cost
- Air-tight
  - Energy efficient
- Encapsulated Wire Helix
  - No unraveling when cut to length
  - Quick installation
- Smooth Inner Core
  - Low friction loss
  - Lower operating cost
- Lightweight Compact Carton
  - Reduces warehouse and job site handling cost

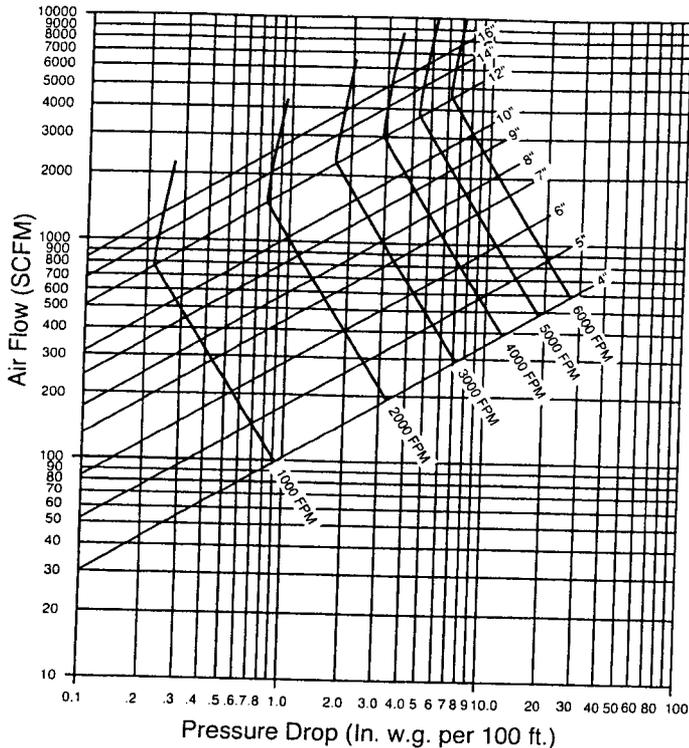




# Product and Performance Data



## Air Friction Chart \*



### STRAIGHT RUN

\* FD 72-R1 Test Code of the Air Diffusion Council. Friction loss is computed in inches of water gauge per 100 ft. of straight duct. By using CFM or FPM values for a given duct dimension, the friction loss can be determined. Conversion of CFM to FPM also can be made.

## Product Data

- Length: 25'
- Diameter: 3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 16", 18", 20"
- End Treatment: Plain ends
- Packaging: 3" and 4" — 4 pieces per carton  
5" through 20" — 1 piece per carton

## Warranty

Atco warrants that all flexible ducts will be free from defects in material and workmanship for a period of five years from the date of purchase only if the ducts are installed in accordance with Atco's installation instructions and under conditions specified in Atco's performance data. The buyer's exclusive remedies for any defect in the flexible ducts shall be replacement or refund of the purchase price, at Atco's option.

ATCO MAKES NO OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE. IN PARTICULAR, ATCO MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ATCO SHALL HAVE NO LIABILITY TO THE BUYER OR ANY THIRD PARTY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, LOST PROFITS OR OTHER ECONOMIC INJURY DUE TO ANY DEFECT IN THE FLEXIBLE DUCTS.

MATERIALS AND SPECIFICATIONS FOR THE FLEXIBLE DUCTS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Distributed by:

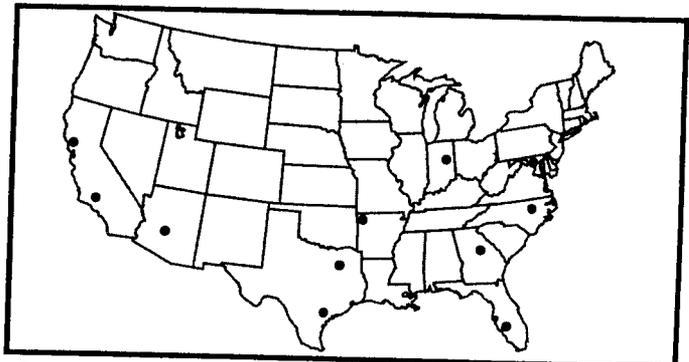
## Series 500 Performance Data

- Rated Positive Pressure: 10" w.g. per UL-181 (UL Listed pressure ratings are determined in straight lengths @ ambient temperatures.)
- Recommended Operating Pressures: (Determined in a 90° bend at elevated temperatures in accordance with ADC FD 72-R1 Test Code.)  
2" w.g. positive - all diameters  
1/2" w.g. negative - all diameters
- Maximum Velocity: 2,000 FPM
- Operating Temperature Range:  
High 180°F internal  
Low -20°F external
- Flame Spread: Less than 25
- Smoke Developed: Less than 50

**INSTALLATION:** Air duct connections and joints shall be made per installation instructions outlined by ATCO Rubber Products, Inc. and as required by the UL 181 listing procedure. (Installation instructions are included inside of each carton.)

Air connectors shall not be installed in lengths greater than 14 feet for any given run.

## Atco Shipping Locations



Baltimore, MD • Cartersville, GA • Fort Worth, TX • Greensboro, NC  
Houston, TX • Indianapolis, IN • Phoenix, AZ • Plant City, FL  
Riverside, CA • Sacramento, CA • Springdale, AR

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