



ATCO RUBBER PRODUCTS, INC.

UPC #078

25' Insulated

UL 181

Class 1 Air Duct

Description

ATCO's UPC #078 is a UL 181 Class 1 Air Duct and is manufactured with a tri-directional scrim reinforced grey polyester jacket.

The UPC #078 inner core is air-tight and is designed for low-to-medium operating pressures in HVAC systems.

Construction

A double lamination of tough polyester which encapsulates a steel wire helix forms the air-tight inner core to ATCO's UPC #078. The double-layer core is wrapped in a thick blanket of fiberglass insulation, and sheathed in a rugged and durable tri-directional scrim reinforced grey polyester jacket.

Applications

UPC #078 is designed for indoor use as a supply and return air duct in residential and commercial low-to-medium pressure heating and air conditioning systems. ATCO's UPC #078 can be used as a complete air duct system and/or a branch duct connecting to mixing boxes, diffusers, light troffers, room inlets, or other terminal devices.

Code Compliance*

Meets requirements of Florida Energy Code. UL 181, UMC 10-1, SBCC, BOCA, NFPA 90A & 90B, HUD 515-2.1 (b), Cities of Chicago, New York & San Francisco, County of Dade (Florida), California State Fire Marshal.

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

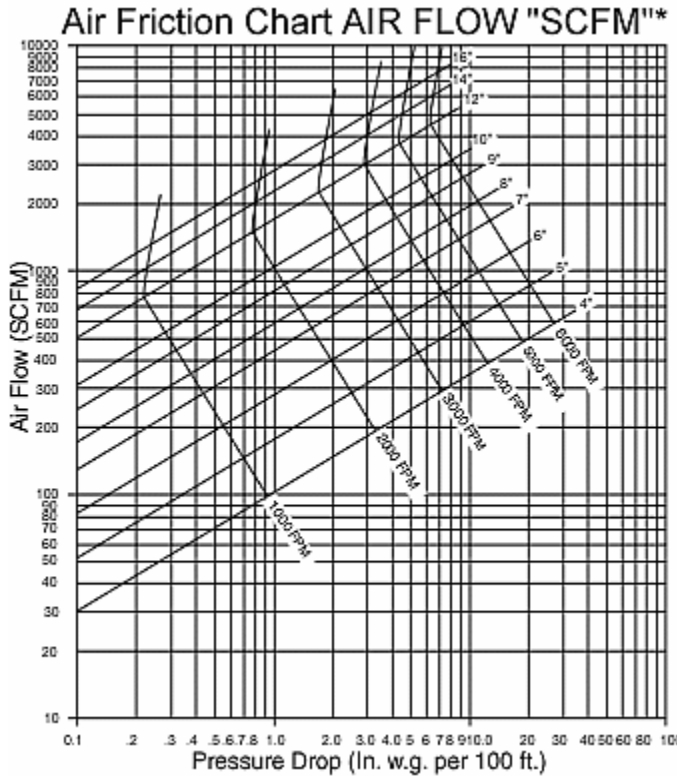
Features and Benefits

- Air-tight Inner Core
 - Energy efficient
 - No fiberglass erosion into airstream
- Encapsulated Wire Helix
 - No unraveling when cut to length
 - Quick installation
- Smooth Inner Core
 - Low friction loss
 - Low operating cost
- Thick Blanket of Fiberglass Insulation
 - Meets Florida Energy Code Requirements
 - Energy efficient
 - Excellent thermal characteristics
- Tough Reinforced Polyester Jacket
 - Tear and puncture resistant
 - Low maintenance
- Lightweight Compact Carton
 - Reduces warehouse and job site handling cost





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: 4", 5", 6", 7", 8", 9", 10", 12", 14", 16", 18"
- Vapor Barrier: Reinforced polyester
- End Treatment: 25'-plain ends
- Packaging: 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:

UPC #078

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.)
 - Maximum Positive:
 - 6" w.g. - 4" thru 12" Dia.
 - 4" w.g. - 14" thru 20" Dia.
 - (With factory installed metal collars, 2" w.g. - all diameters)
 - Maximum Negative:
 - 3 1/4" w.g. - all diameters
 - Maximum Velocity: 5,000 FPM
 - Vapor Transmission: .6 perms
 - Maximum Operating Temperatures:
 - 20°F to 140°F Continuous (@ maximum pressure)
 - 20°F to 180°F Continuous (@ 2" pos. w.g. max.)
 - 20°F to 250°F Intermittent (@ 1/2" pos. w.g. max.)
 - R Value: 8.0 (In accordance with ADC Flexible Duct Performance and Installation Standards (1991) using ASTM C-518 at installed wall thickness on flat insulation only.)
 - 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.)

Atco Shipping Locations



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

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