



UPC #018 8' Insulated UL 181 Class 1 Air Duct

Description

ATCO's UPC #018 is a UL 181, Class 1 Air Duct which meets the requirements of NFPA (90A & 90B). UPC #018 is an insulated duct, with a non-combustible, flexible metal core, manufactured of corrugated aluminum with watertight lock seams. 8' lengths come standard with universal male/female fittings, and are compressed for easy storage and handling. UPC #018 is air-tight and is designed for low, medium and high operating pressures in HVAC systems.

Construction

UPC #018 has an all metal non-combustible inner core constructed of heavy gauge corrugated aluminum with watertight continuous lock seams. The flexible metal core is wrapped in a thick blanket of fiberglass insulation and a durable metalized vapor barrier.

Applications

UPC #018 is used as a supply, return, and exhaust duct in low, medium, and high pressure heating, air conditioning, and exhaust systems.

ATCO's UPC #018 can be used in an air distribution system, connecting ducts, mixing boxes, diffusers, light troffers, room inlets, or other terminal devices..

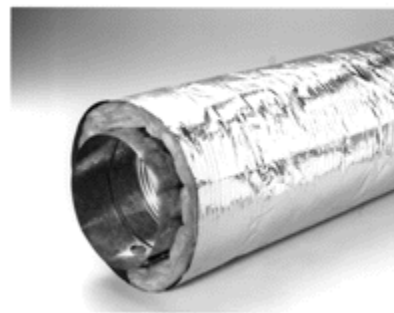
Code Compliance*

UL 181, UMC 10-1, NFPA 90A & 90B, SBCC, BOCA, 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

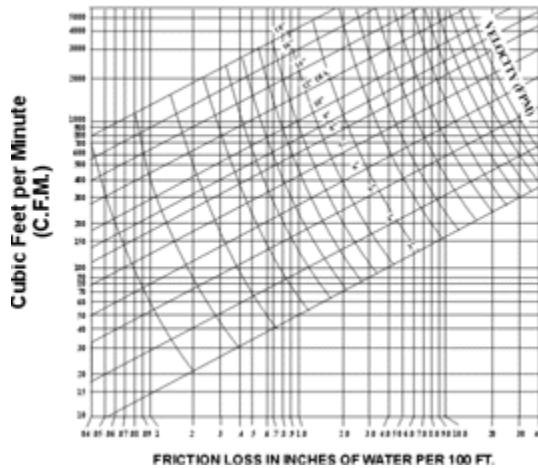
- **Rugged All Metal Core**
 - Non-combustible
 - High positive and negative pressure ratings
 - Puncture resistant
 - Low maintenance
- **Thick Blanket of Fiberglass Insulation**
 - Energy efficient
 - Excellent thermal characteristics
- **Semi-Rigid Yet Flexible**
 - Easily shaped into bends
 - Maintains shape
 - Will not sag between supports
- **Compressed Lengths in Lightweight Compact Cartons**
 - Reduces warehouse and job site handling cost
 - Easily stored
- **Universal Male/Female Fittings**
 - Lengths easily connected to terminal devices or other ducts for longer runs



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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: 8'
- Diameter: 6", 7", 8", 9", 10", 12", 14", 16", 18"
- End Treatment: Universal Male/Female Fittings

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.

UPC #018

Performance Data

- **Recommended Operating Pressures:**
Maximum positive and negative
12" w.g. - 6" thru 10" Dia.
8" w.g. - 12" thru 18" Dia.
(With factory installed metal collars, 2" w.g. - all diameters)
- **Maximum Velocity:** 5,000 FPM
- **Operating Temperature Range:**
-100°F to 250°F
- **R Value:** 4.2, 6.0
(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.)

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