atco
Flexible Duct Products

ALUMINUM DUCT PRODUCTS

For Special Applications

UPC #017 • R-Value 4.2
CLASS 0

UPC #018 • R-Value 6.0
CLASS 1

UPC #020 • R-Value 8.0
NON LISTED, NON-LABELED

All thermal performance (R-Values) are certified by the Air Duct Council (ADC) and classified by UL LLC in accordance with ADC Flexible Duct Performance and Installation Standard using ASTM C-518, at installed wall thickness, on flat insulation only.

Description

- UPC #017 is a UL 181, Class 0 Air Duct which meets the requirements of NFPA (90A & 90B).
- UPC #018 is an insulated UL 181, Class 1 Air Duct which meets the requirements of NFPA (90A & 90B).
- UPC #020 is a low cost, general purpose, venting duct designed for use where a UL 181 listing in not required.
- All three are made from non-combustible, corrugated aluminum with watertight lock seams.

Construction

Both #017 and #018 are constructed of heavy gauge corrugated aluminum, while the #020 is constructed of a slightly lighter gauge. All three have watertight continuous lock seams. #018 is wrapped in a thick blanket of fiberglass insulation and a durable metalized polyester vapor barrier. All three are compressed for easy storage and handling.

Features & Benefits

Rugged All Metal Inner Core Construction ..... Non-combustible / puncture resistant

Semi-Rigid Yet Flexible ..... Easily shaped into bends, maintains shape / Will not sag between supports

Lightweight Compact Carton/Bag ..... Reduces warehouse / jobsite handling costs and is easily stored

UPC #018 - Thick Blanket of Fiberglass Insulation ..... Energy efficient / Excellent thermal characteristics

UPC #017 & #018 - Universal Male/Female Fittings ..... Lengths easily connected to terminal devices or other ducts

UPC #020 - One End Crimped/One End Plain ..... Lengths easily connected to terminal devices or other ducts

Applications & Code Compliances

ATCO #017 and #018 are used as supply, return, and exhaust ducts in low, medium, and high pressure heating, air conditioning, and exhaust systems. Both can be used in an air distribution system, connecting ducts, mixing boxes, diffusers, light troffers, room inlets, or other terminal devices. UL-181, NFPA 90A & 90B, IMC, IRC, UMC (ICC ES Report No. ESR-1268), HUD, and California State Fire Marshal Building Materials Listing (8534-0995:0100)*

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

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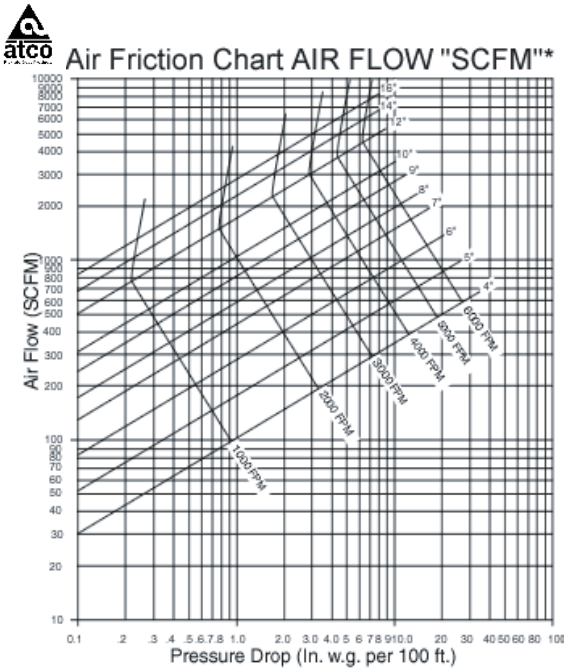
Product & Performance Data



Product Data

Length: 8'
Diameter: (3", 4", 5" #020 only) 6", 7", 8", 9", 10", 12", 14", 16", 18"
End Treatment: (#017/#018): Universal Male/Female Fittings,
(#020): One end crimped, one end plain

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 included with product packaging and available for review and download at **www.atcoflex.com**

Straight Run

FD 72-R1 Test code of the Air Duct Council.

Friction loss is reported in inches of water gauge per 100ft of 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.

Performance Data

UPC #017
Uninsulated

- Recommended Operating Pressures:
  Maximum Positive and Negative:
  12" w.g. - 4" thru 10" Diameters
  8" w.g. - 12" thru 18" Diameters
- Maximum Velocity: 5,000 FPM
- Operating Temp. Range: -100ºF to 400ºF
- R-Value: R4.2, R6.0, and R8.0
- Flame Spread: 0
- Smoke Developed: 0

UPC #018
R-Value 4.2/6.0/8.0

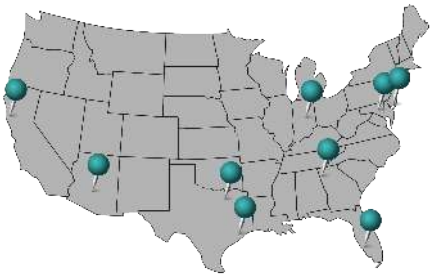
- Recommended Operating Pressures:
  Maximum Positive and Negative:
  12" w.g. - 4" thru 10" Diameters
  8" w.g. - 12" thru 18" Diameters
- Maximum Velocity: 5,000 FPM
- Operating Temp. Range: -100ºF to 250ºF
- R-Value: R4.2, R6.0, and R8.0
  (In accordance with ADC Flexible Duct Performance and Installation Standards (1991) using ASTM C-518 at installed wall thickness on flat insulation only.
- Flame Spread: Less than 25
- Smoke Developed: Less than 50

UPC #020
Uninsulated

- Recommended Operating Pressures:
  6" Positive and negative all diameters
- Maximum Velocity: 5,000 FPM
- Operating Temp. Range: -100ºF to 300ºF

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.

Manufacturing & Shipping Locations



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