atco
Flexible Duct Products

FLEXIBLE DUCT SYSTEMS

25' Insulated • UL 181 Class 1 Air Duct

UPC #040 • R-Value 4.2 **UPC #048 • R-Value 8.0**

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

ATCO #040 and 048 are UL 181, Class 1 Air Ducts and are manufactured with a black, heavy-duty polyethylene jacket which complies with the HUD requirements for mobile home or modular home installation. The UPC #040 and #048's 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. The double-layer core is wrapped in various thicknesses of fiberglass insulation blankets to provide the R-Value specific to each product. The core and insulation are reinforced with scrim, and sheathed in a rugged and durable black seamless polyethylene jacket.

Features & Benefits

Air-tight Inner Core	Energy efficient / No fiberglass erosion into air stream
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	Energy efficient / Excellent thermal characteristics
Highly Resistant to Mold Growth	Tested and Validated to UL Environment's Standard UL 2824
Certified for Low Chemical Emissions	Tested and Certified to UL Environment's Standard UL 2818
Certified Thermal Performance (R-values)	UL Classified to Air Duct Council test program
Black, Heavy-Duty Polyethylene Jacket	Tear and puncture resistant / Low maintenance
Lightweight Compact Carton/Bag	Reduces warehouse and jobsite handling cost
Formaldehyde Free	Made with Owens Corning Insulation

Applications & Code Compliances

ATCO #040 and 048 are designed for indoor use as a supply and return air duct in residential and commercial low-to-medium pressure heating and air conditioning systems. All three models 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. 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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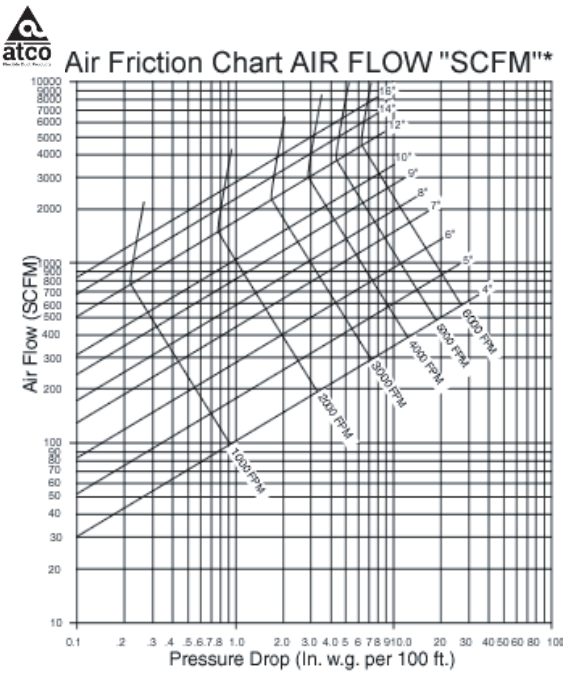
Product & Performance Data



Product Data

Length: 25’
Diameter: 6”, 8”, 10”, 12”, 14”, 16” (R8 only)
Vapor Barrier: Seamless black polyethylene
End Treatment: 25’ - plain ends
Packaging: 1 piece per carton

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 #040	UPC #048
R-Value 4.2	R-Value 8.0

- Rated Positive Pressure: 10” w.g. per UL-181 (UL Listed pressure ratings are determined in straight lengths @ ambient temperatures.) (With factory installed metal collars, 2” w.g. – all diameters)
- Rated Negative Pressure: ¾” w.g.
- Rated Maximum Velocity: 5,000 FPM
- Recommended Operating Pressures: (Determined in a 90° bend at elevated temperatures in accordance with ADC FD 72-R1 Test Code.)
  Maximum Positive:
  4” w.g. – 6” thru 10” Dia.
  2” w.g. – 12” thru 16” Dia.
- Vapor Transmission: 0.1 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 (@ ½” pos. w.g. max)
- Flame Spread: 25 max
- Smoke Developed: 50 max

Thermal Performance

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

Baltimore, MD • Crawfordsville, IN • Fort Worth, TX
Houston, TX • Phoenix, AZ • Plainville, GA
Plant City, FL • Sacramento, CA • Vineland, NJ

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