



FLEXIBLE DUCT SYSTEMS

**25' Uninsulated • UL 181
Class 1 Air Connector**

ATCO #050

ATCO #050 is a UL Listed Class 1 Flexible Air Connector which meets the requirements of NFPA 90A & 90B. UPC #050 is designed for low to medium operating pressures in residential and commercial HVAC systems.



Construction

A triple lamination of tough metallized polyester, aluminum foil, and polyester encapsulates a highcarbon, steel wire helix and forms the air-tight uninsulated flexible duct. ATCO #050 is manufactured in 25' lengths, which can be easily cut for installation. It is compressed and packed in small, easy to store cartons.

Features & Benefits

Air-tight	Energy efficient
Encapsulated Wire Helix	No unraveling when cut to length / Quick installation
Smooth Inner Core	Low friction loss / Low operating cost
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
Lightweight Compact Carton	Reduces warehouse and Jobsite handling cost

Applications & Code Compliances

ATCO's #050 is used as a supply, return, and exhaust duct in low-to-medium pressure residential and commercial heating, air conditioning, and exhaust systems. ATCO #050 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. ATCO #050 should not be used to vent appliances for cooking, heating, and clothes drying unless approved and recommended by the appliance manufacturer. 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)

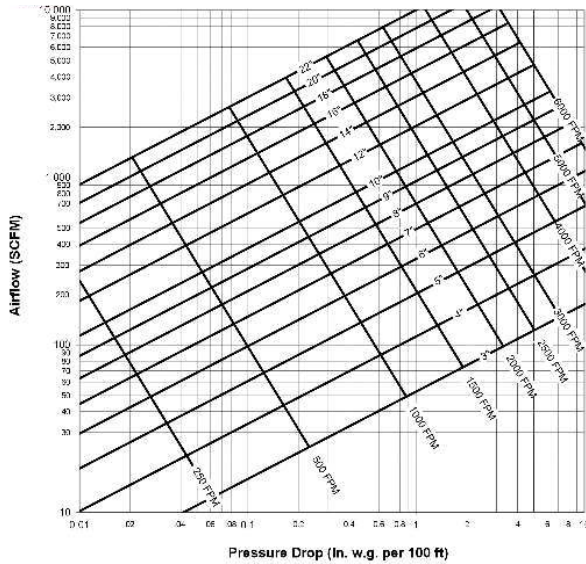
*ATCO recommends that you check with the local code body having jurisdiction in your area to determine applicable codes

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Product & Performance Data



Air Friction Chart



Product Data

Length: 25'

Diameter: 3" – 10" all diameters, plus 12" – 20" even diameters

End Treatment: 25' – plain ends

Packaging: 1 piece per carton / bag

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

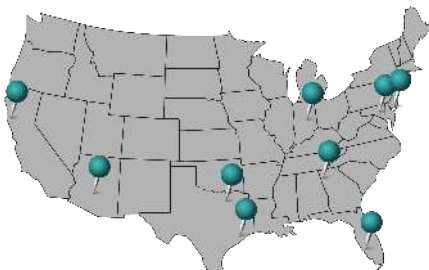
ATCO #050

- Rated Positive Pressure:
15" w.g. 3" thru 16" dia. / 10" w.g. 18" thru 20" dia.
per UL-181 (UL Listed pressure ratings are determined in straight lengths @ ambient temperatures.)
- Rated Negative Pressure: ¾" w.g. 3" thru 20" dia.
- Rated Maximum Velocity: 5,000 FPM
- Recommended Operating Pressures: 6" w.g. max for 3" thru 12" dia.,
4" w.g. max for 14"-20" dia. (Determined in a 90° bend at elevated temperatures in accordance with ADC FD 72-R1 Test Code.)
- Flame Spread: 25 max
- Smoke Developed: 50 max
- Vapor Transmission: 0.05 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)



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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