Thermaflex®

The #1 Flexible Duct in the World.

Flex-Vent®

KM Insulated Flexible Duct



Thermaflex® is a global leader in the flexible duct product industry for both commercial and residential HVAC applications.

Flex-Vent® KM is a thermally insulated, fully lined, UL 181 and CUL S110 Class 1 flexible air duct designed for low to medium pressure cooling and heating HVAC systems. It can be used in either supply or return sections and provides economical means for handling misalignment between systems components and ducting around obstacles where fabricated and fitted ducts are difficult and costly to use. It is equally suitable for new jobs or retrofit work and is especially useful when making system extensions or for changing conditioned zones, now or in the future.

Compliance to NFPA Standards allows you to install lengths longer than the 14' limitation applying to connectors. It is a highly efficient part of the total duct system because the smooth liner, the ample insulation and tough outer vapor barrier provide good airflow, thermal insulation and a double air seal.

- GreenGuard® Gold Certified for Superior Indoor Air Quality
- Meets UL 181, CUL S110 and NFPA 90A-90B Fire Codes

Increase productivity and profitability with innovative products by Thermaflex®. Contact us today at 1-800-459-4822.

GREENGUARD GOLD

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THERMAFLEX 10 Ten Year Warranty

Flex-Vent® KM Insulated Flexible Duct

Features and Benefits

- Underwriters Laboratories listed to UL 181 and CUL S110 for the US and Canada.
- Complies with NFPA Standards 90A and 90B.
- Corrosion resistant steel wire helix.
- Fully lined for efficient air delivery.
- The outer vapor barrier is a jacket of fiberglass scrim reinforced metallized film laminate.
- Quality KM installations produce referrals that increase volume and profits.
- Available in 4.2, 6.0, and 8.0 thermal application values.
- Available in both box and bag packaging.
- GreenGuard® Gold Certified which is the industry's most recognized Indoor Air Quality (IAQ) rating.
- Made with Owens Corning™ EcoTouch® formaldehyde-free Insulation. Made with 99% natural materials and highest recycled content. Also, it is the only fiberglass insulation listed in the USDA BioPreferred Catalog.
- Available through broad national distribution.

Application and Engineering Data

Nominal Inside Diameter (inches)	4	5	6	7	8	9	10	12	14	16	18	20	22
Length (feet)	25	25	25	25	25	25	25	25	25	25	25	25	25
Inside Bend Radius (inches)	4	5	6	7	8	9	10	12	14	16	18	20	22
Operating Pressure (inches water column)	Positive = 10 inches (4-16 in. ID) 6 inches (18-22 in. ID) Negative = ½ inch (4-22 in. ID)												

Operating Temperature Range (˚F) Minimum Maximum	 -20 250
Velocity (Feet Per Minute)	5000
R-Value	4.2, 6.0, 8.0
Surface Burning Characteristics Maximum Flame Spread Maximum Smoke Developed	 25 50
Vapor Transmission Rating (US Perm)	0.05

Thermal Performance

ALSO CLASSIFIED BY Underwriters Laboratories, Inc.® IN ACCORDANCE WITH ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS (1991) USING ASTM C-518 (1991) AT INSTALLED WALL THICKNESS ON FLAT INSULATION ONLY R-4.2/6.0/8.0

NOTE: For detailed information concerning air friction loss and acoustical data, refer to separate technical bulletins published by Thermaflex®. Tests performed according to Air Diffusion Council Air Duct Test Code FD72R1.

Construction and Materials

Strong polyester film laminated and encapsulating a heavy, corrosion resistant steel wire helix, forms the inner core and supports a thick blanket of fiberglass insulation. The outer vapor barrier is a bi-directional reinforced metallized vapor barrier that will not unravel. The smooth airtight innercore of polyester is designed for low to medium pressure systems.

Warranty The first five years of installation in the case of any warranty issue or product failure, Thermaflex® will cover all duct cost, material cost and any reasonable labor cost, provided the Flex-Vent® product was properly installed in accordance with our written installation. For the second five years of installation, for a maximum of ten and in the event of any Flex-Vent® product failure or warranty issue, Thermaflex® will make replacement of the defective duct only and no other cost will be reimbursed.

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