



**Thermaflex®**

*The #1 Flexible Duct in the World.*

*Flex-Vent®*

# KPE Insulated Flexible Duct

## Insulated Flexible Duct

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

Flex-Vent® KPE is a thermally insulated, fully lined, UL 181 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. Flex-Vent® KPE 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 and NFPA 90A-90B Fire Codes

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



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# KPE Insulated, Double-Air Seal, Flexible Air Duct

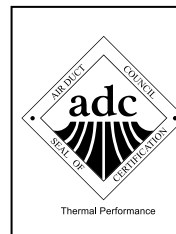
## Features and Benefits

- Underwriters Laboratories listed 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 bi-directional scrim reinforced gray polyester.
- Quality KPE installations produce referrals that increase volume and profits.
- Available through broad national distribution.
- Available in 4.2, 6.0, and 8.0 thermal application values.
- Available in both box and bag packaging.
- GreenGuard® Gold Certified is the industry's most recognized Indoor Air Quality (IAQ) ratings.
- 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.

## Application and Engineering Data

<b>Nominal Inside Diameter (inches)</b>	4	5	6	7	8	9	10	12	14	16	18	20
<b>Length (feet)</b>	25	25	25	25	25	25	25	25	25	25	25	25
<b>Inside Bend Radius (inches)</b>	4	5	6	7	8	9	10	12	14	16	18	20
<b>Operating Pressure (inches water column)</b>	Positive = 10 inches (4-16 in. ID), 6 inches (18-20 in. ID) Negative = 1/2 inch (4-20 in. ID)											

<b>Operating Temperature Range (°F)</b> Minimum Maximum	-20 250
<b>Velocity (Feet Per Minute)</b>	5000
<b>R-Value</b>	4.2, 6.0, 8.0
<b>Surface Burning Characteristics</b> Maximum Flame Spread Maximum Smoke Developed	25 50
<b>Vapor Transmission Rating (US Perm)</b>	0.1



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-4.6/6.0/8.0

NOTE: For detailed information concerning air friction loss and acoustical data, refer to separate technical bulletins published by Thermaflex. Tests performed according to Air Duct 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. Outer vapor barrier is bi-directional scrim reinforced gray polyester. 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.

1-800-459-4822 • [www.thermaflex.net](http://www.thermaflex.net)

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