



Flex-Vent® KPE

INSULATED FLEXIBLE DUCT



GreenGuard Certified
for Superior Indoor
Air Quality

APPLICATIONS

Flexvent KPE is a thermally insulated, fully lined, UL 181 Class I 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

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.

Insulated:	Yes
Diameter:	4-20 inches ID
Pressure rating:	(WG)
Positive:	10 inches (4"-16" ID) 6 inches (18"-20" ID)
Negative:	1 inch (4"-12" ID) ½ inch (14"-20" ID)
Velocity:	5000 FPM
Temperature Range:	-20°F-250°F cont.
R-Value:	R-4.2, R-6.0, R-8.0

Meets UL 181 and NFPA 90A-90B Fire Codes



Worldwide Sales Headquarters & Customer Service Department
381 Carwellyn Rd. • Abbeville, SC 29620

In the US, call 1-800-459-4822 • In Canada, call 1-800-263-3539 • thermaflex.net

KPE Insulated Flexible Duct

Applications and Engineering Data

NOMINAL INSIDE DIAMETER (INCHES)	4	5	6	7	8	9	10	12	14	16	18	20
LENGTH (FEET)	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
OPERATING PRESSURE (INCHES WATER COLUMN)	Positive = 10 inches (4-16 in. ID), 6 inches (18-20 in. ID) Negative = 1 inch (4-12 in. ID), 1/2 inch (14-20 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 MAX. FLAME SPREAD MAX. SMOKE DEVELOPED	25 50
VAPOR TRANSMISSION RATING (U.S. PERM)	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-4.2/6.0/8.0

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. 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 Flexvent® 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 Flexvent 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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