Thermaflex®

The #1 Flexible Duct in the World.

M-KE ACOUSTICAL FLEXIBLE AIR DUCT

Thermaflex® M-KE air duct is a thermally insulated, fully lined, flexible air duct designed for use in all medium pressure cooling and heating systems.

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

Thermaflex® M-KE air duct is used in either supply or return sections: for branch ducts and branch connections to or between mixing units, induction units, control or terminal units and diffusion devices, including light troffers. Thermaflex M-KE air duct provides economical means for handling misalignment between system components and ducting around obstacles where fabricated and fitted ducts are difficult and costly to install. Thermaflex air duct is equally suitable for new jobs or refit work and is especially useful when making system extensions or for changing conditioned zones, now or in the future. Compliance with NFPA Standards lets you install lengths longer than the limitation applying to connectors Thermaflex M-KE is a highly efficient duct because the liner, in combination with the reinforced, metallized vapor barrier, provides a double air seal.



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

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M-KE Acoustical Flexible Air Duct

FEATURES AND BENEFITS:

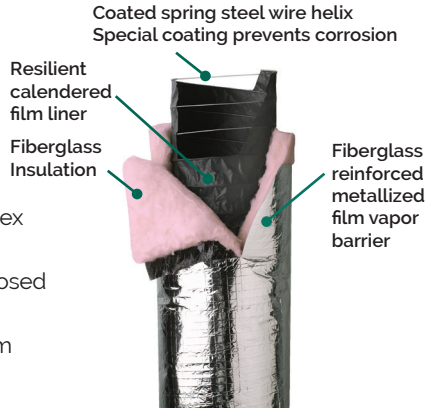
- Underwriters Laboratories UL 181 and CUL S110 listed, and complies with NFPA Standards 90A and 90B.
- Acoustically rated resilient calendered film core assures quiet performance.
- Core material will not support mold and mildew growth.
- Fully lined for efficient air delivery.
- Large diameter, heavy, spring steel wire helix assures dimensional stability, resists mechanical abuse and provides more efficient air delivery.
- Bi-Directional reinforced metallized jacket resists tearing—reduces chance for damage to vapor barrier.
- Uniquely constructed core will not unravel when cut.
- All components are self-extinguishing and will not support flame (see oxygen index figures under application and engineering data).
- "Outward Cast" of heavy spring steel helix keeps duct core from shrinking up inside insulation and jacket, resulting in less waste.
- Resilient calendered film core material will stretch over fittings providing a "snug" fit and reducing labor costs associated with a poor fit.
- Resilient calendered film core will not "blow-out" and eliminates costly call-backs.
- Labor savings and reduced waste result in lower installed costs.
- Available through broad national distribution.
- Meets California Department of Health Standards - OSHPD.
- State of Florida AHCA approved.

APPLICATION & 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 (4-12in. ID) 6 inches (14-16in. ID) 4 inches (18-20in. ID) Negative: 1 inch (4-12in. ID) ½ inch (14-20in. ID)											
Operating Temperature Range (˚F)	Minimum: -20							Maximum: 250				
Velocity (ft/minute)	5000											
R-Value	4.2, 6.0, 8.0 per ASTM C-518											
Surface Burning Characteristics	Max. Flame Spread: 25							Max. Smoke Developed: 50				
Oxygen Index Ratings	Core: 3.13							Metallized Jacket: 45.7				
Vapor Transmission Rating	0.05											

CONSTRUCTION & MATERIALS

Resilient calendered film duct liner is permanently bonded to a coated spring steel wire helix, also supporting a blanket of fiberglass insulation. Vapor barrier is an outer jacket of fiberglass reinforced metallized film laminate.



SUGGESTED SPECIFICATION

Flexible duct for connections between _____ and _____ shall be Thermaflex M-KE air duct Listed by Underwriters Laboratories, Inc., under UL Standard 181 and CUL S110 as a Class 1 flexible air duct and complying with NFPA Standards 90A and 90B. Duct shall be factory made and composed of: a resilient calendered film liner duct permanently bonded to a coated spring steel wire helix and supporting a fiberglass insulating blanket. Low permeability outer vapor barrier of fiberglass reinforced film laminate shall complete the composite.

Warranty Thermaflex warrants that all insulated and non-insulated products will be free from defects in materials and factory workmanship for a period of ten years from the date of manufacture. This warranty covers the flexible duct, materials and labor. This warranty applies only to ducts properly installed in accordance to Thermaflex's written installation instructions and under conditions specified in published performance data. Thermaflex shall not be liable to buyer or any third party for any special, secondary, incidental or consequential damages however arising.

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