



M-KE

ACOUSTICAL FLEXIBLE AIR DUCT



M-KE Features and Benefits:

- Underwriters Laboratories UL 181 listed, and complies with NFPA Standards 90A and 90B.
- 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.
- Acoustically rated CPE core assures quiet performance.
- 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.
- CPE core material will stretch over fittings providing a “snug” fit and reducing labor costs associated with a poor fit.
- CPE 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.

APPLICATIONS:

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. It 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.

GreenGuard Certified
for Superior Indoor
Air Quality



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M-KE

Insulated Acoustical Flexible
Air Duct for All Pressure Systems

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 (4-12 in. ID) 6 inches (14-16 in. ID) 4 inches (18-20 in. ID) Negative = 1 inch (4-12 in. ID) 1/2 inch (14-20 in. ID)											
Operating Temperature Range (°F):	Minimum = -20						Maximum = 250					
Velocity (feet per minute):	5000											
R-Value:	4.2 , 6.0, 8.0											
Surface Burning Characteristics:	Max. Flame Spread = 25						Max. Smoke Developed = 50					
Oxygen Index Ratings:	CPE Core = 3.13						Metallized Jacket = 45.7					
Vapor Transmission Rating (U.S. Perm):	0.05											

Construction and Materials:

CPE 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 as a Class I flexible air duct and complying with NFPA Standards 90A and 90B. Duct shall be factory made and composed of: a CPE 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.

10 Year 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.

