Thermaflex®

The #1 Flexible Duct in the World.

Flex-Vent®

R-KD Insulated Duct



Double-Air Sealed Flexible Duct
For outdoor low and medium pressure systems

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

Thermaflex® R-KD duct is a thermally insulated, fully lined, UL 181 Class I flexible air duct designed for efficient installation and operation in outdoor cooling and heating systems of low and medium pressure. It is available in standard 25-foot lengths. Because of its extreme flexibility and good weathering characteristics, Thermaflex® R-KD is particularly suitable for add-on mobile home remote air conditioning, for connecting double wide units as crossover duct, and for use in modular building systems. Thermaflex RK-D complies with HUD Mobile Home Construction and Safety Code Part 3280.715, Chapter II of 24 CFR. It provides an economical means for handling misalignment between system components and ducting around obstacles where fabricated and fitted ducts are difficult and costly to install.

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

GREENGUARD GOLD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

ADC · UL LISTED · EcoTouch · HARDI

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THERMAFLEX 10 Ten Year Warranty

R-KD Insulated, Double-Air Seal, Flexible Air Duct

Features and Benefits

- Reduced total installed cost – fast, economical installation
- Underwriters Laboratories listed UL 181 Class 1 Air Duct
- Complies with HUD Mobile Home Construction and Safety Code Part 3280.715, Chapter II of 24 CFR; NFPA Standards 90A and 90B, and most local, state and federal standards or codes
- Factory applied extra thick thermal insulation blanket complies with HUD/FHA minimum property standard
- Core constructed of multiple layers of strong polyester film encapsulating a heavy corrosion-resistant spring steel helix which keeps the inner core from shrinking up inside insulation and jacket
- Large diameter, heavy, spring steel wire helix assures dimensional stability, resists mechanical abuse and provides more efficient air delivery
- Quality R-KD installations produce referrals that increase volume and profits
- Available in certified R-4.2, R-6.0 and R-8.0 thermal values
- 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

Nominal Inside Diameter (inches)	6	8	10	12	14	16
Length (feet)	25	25	25	25	25	25
Inside Bend Radius (inches)	6	8	10	12	14	16
Operating Pressure (inches water column)	Positive = 6 inches (6-14 in. ID) Negative = 1/2 inch (14 in. ID), 1 inch (12 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)	0.1

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 Duct Council Air Duct Test Code FD72R1.

Construction and Materials

Laminated polyester duct liner is permanently bonded to a corrosion-resistant spring-steel wire helix. Also supporting a thick blanket of fiberglass insulation and fiberglass scrim vapor barrier is an outer jacket of heavy black polyethylene.

Suggested Specification

Flexible duct and flexible duct assemblies for connection between ____ and ____ shall be Thermaflex R-KD listed by Underwriters Laboratories, Inc., under UL Standard 181 as Class 1 flexible air duct and complying with NFPA Standards 90A and 90B, and HUD Mobile Home Construction and Safety Code, Part 3280.715. Thermaflex R-KD air duct shall be factory fabricated assembly composed of polyester inner duct liner bonded permanently to a corrosion resistant spring steel wire helix supporting a 1-1/2 in. thick fiberglass insulating blanket with fiberglass scrim. Low permeability outer vapor barrier of 4 mil. Polyolefin material shall complete the assembly.

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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