

# R-KD Duct

**Insulated, double-air seal, flexible air duct for outdoor low and medium pressure systems**



## 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 R-KD 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.

## FEATURES AND BENEFITS

- Reduced total installed cost – fast, economical installation
- Underwriters Laboratories listed UL 181 Class I Air Duct. Also 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; also HUD Mobile Home Construction and Safety Code
- Large diameter, heavy, spring steel wire helix assures dimensional stability, resists mechanical abuse and provides more efficient air delivery
- Core constructed of multiple layers of strong polyester film encapsulating a heavy corrosion-resistant spring steel helix
- Inner core oversized for quick installation
- “Outward cast” of heavy steel spring steel helix keeps duct core from shrinking up inside insulation and jacket resulting in less waste
- Labor savings and reduced waste result in lower installed costs
- Quality R-KD installations produce referrals that increase volume and profits
- Available in certified R-4.2 and R-8.0 thermal values
- 10-year warranty (see reverse for details)



Worldwide Sales Headquarters & Customer Service Department  
381 Carwellyn Rd. • Abbeville, SC 29620 • 1-800-459-4822 • [thermaflex.net](http://thermaflex.net)

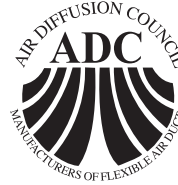
# R-KD Duct

Insulated, double-air seal, flexible air duct for outdoor low and medium pressure systems

## Applications and Engineering Data

<b>NOMINAL INSIDE DIAMETER (INCHES)</b>	6	8	10	12	14
<b>LENGTH (FEET)</b>	25	25	25	25	25
<b>INSIDE BEND RADIUS (INCHES)</b>	6	8	10	12	14
<b>OPERATING PRESSURE (INCHES WATER COLUMN)</b>					
<b>POSITIVE</b>	6	6	6	6	6
<b>NEGATIVE</b>	1	1	1	1	0.5

<b>OPERATING TEMPERATURE RANGE (°F)</b>	
<b>MINIMUM</b>	-20
<b>MAXIMUM</b>	250
<b>VELOCITY (FEET PER MINUTE)</b>	5000
<b>R-VALUE</b>	4.2/8.0
<b>SURFACE BURNING CHARACTERISTICS</b>	
<b>MAX. FLAME SPREAD</b>	25
<b>MAX. SMOKE DEVELOPED</b>	50
<b>VAPOR TRANSMISSION RATING (U.S. 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-4.2/8.0**

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

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 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.



Worldwide Sales Headquarters & Customer Service Department  
381 Carwellyn Rd. • Abbeville, SC 29620 • 1-800-459-4822 • [thermaflex.net](http://thermaflex.net)