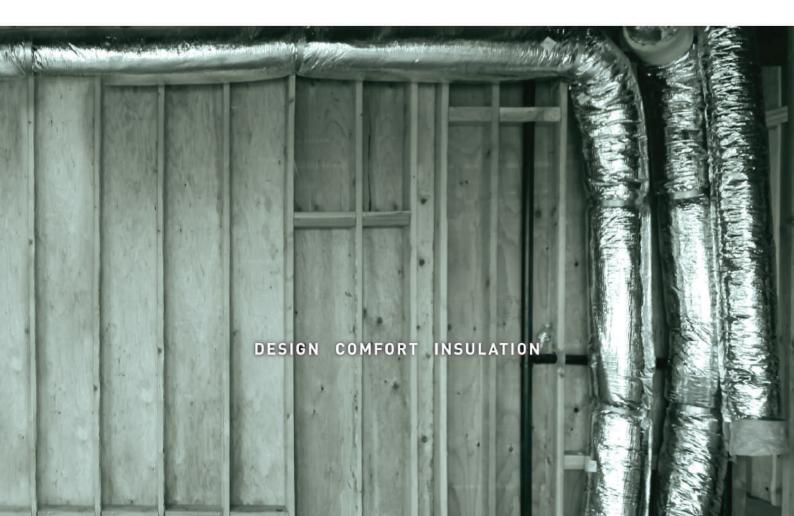


Flexible Cooling Solutions





FLEXIBLE INSULATION DUCTS Environment Friendly AHU & HVAC Solutions

- Top quality solutions for all your HVAC construction needs. Two distinct cores serve
 a range of pressure requirements from residential to medium commercial systems.
- Flexible duct products for both residential and commercial HVAC applications that provide the most economical solution to your air-handling needs.
- · Formaldehyde-free insulation for improved indoor air quality.

Available as

1) Insulated Flexible Duct 2) Non Insulated Flexible Duct

Flexible Duct

- Flexible ducting or 'Flex', is used to transport hot or cold air from the unit into your home and vice versa through the grills or diffusers.
- It is highly convenient for attaching supply air outlets to rigid duct work with long zip ties or metal band claps.
- Flexible ducts can speed up installation by reducing the number of joints in a run and eliminating the need for elbows and offsets.
- It is multiple aluminium, polyester laminated ducting with an encapsulated high tensile steel wire helix.
- Easy to install over round or oval ducting due to high flexibility.
- No special tools required for cutting or fixing.
- Tested for Fire Resistance. No toxic gas emission in case of fire.
- · Lower cost due to faster installation, transport and logistics.





INSULATED FLEXIBLE DUCT - TECHNICAL DETAILS

Inner Construction Material	Inner core is formed of laminated strong polyester film and encapsulated with a heavy, corrosion resistance steel wire helix, and supports a thick blanket of fibreglass insulation.
Outer Construction Material	The outer vapour barrier is a bi-directional reinforced metalized vapour barrier that will not unravel.
Insulation Thickness	25 mm, 38 mm and 50 mm
Insulation Density	16 Kg/m³ and 24 Kg/m³
R-value	4.2 , 6 and 8 ft ² Fhr/BTU
Max. Positive Pressure Rating	Diameter 4" to 16"-10" WG, Diameter 18" to 20"-6" WG
Max. Negative Pressure	Diameter 4" to 20"-1/2" WG
Max. Velocity	5000 fpm
Temperature Range	-20°F to 250°F
Fire Properties	Fire spread index - less than 25, Smoke developed index - less than 50
Vapour Transmission Rating	0.1 US Perm
Standard Length	16.4 ft (5 meter)
Diameter-ID	4" to 20"
Insulated	Yes



NON INSULATED FLEXIBLE DUCT - TECHNICAL DETAILS

Inner Construction Material	Inner core is formed of laminated strong polyester film and encapsulated with a heavy, corrosion resistance steel wire helix.
Outer Construction Material	The outer vapour barrier is a bi-directional reinforced metalized vapour barrier that will not unravel.
Max. Positive Pressure Rating	Diameter 4" to 16"-10" WG, Diameter 18" to 20"-6" WG
Max. Negative Pressure	Diameter 4" to 20"-1/2" WG
Max. Velocity	5000 fpm
Temperature Range	-20°F to 250°F
Fire Properties	Fire spread index – less than 25, Smoke developed index – less than 50
Vapour Transmission Rating	0.1 US Perm
Standard Length	16.4 ft (5 meter)
Diameter – ID	4" to 20"
Insulated	No

APPLICATIONS AND BENEFITS

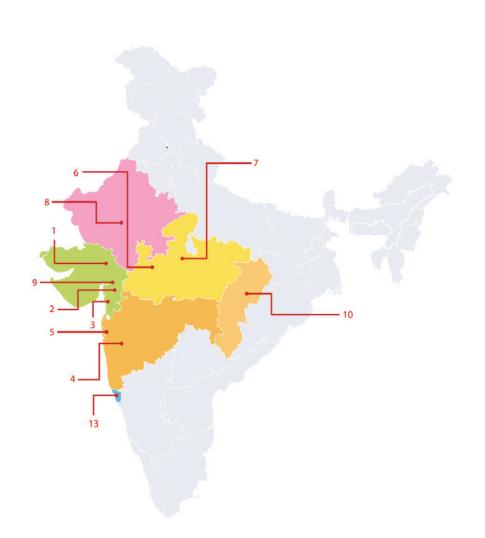
- INFLEX® insulated/non insulated flexible ducts are thermally insulated, fully-lined, designed for low-to-medium
 pressure cooling and heating HVAC systems. It can be used in supply or return sections and is an economical
 solution for handling misalignment between system components and ducting around obstacles where fabricated
 & fitted GI ducts are difficult and costly to use.
- It is equally suitable for new jobs or retrofit works and especially useful for system extensions or changing conditioned zones, now or in the future. Compliance to NFPA standards allows overcoming the 14" length limitation in confectors for first indexitions. 29/06/2022
- It is a highly efficient part of total duct system because the smooth liner, the ample insulation and tough outer vapour barrier provide excellent air flow, thermal insulation and double air seal.
- It's widely used in short term installation projects where installation is to be done swiftly.

FEATURES

INFLEX® strives to satisfy not only contractors, engineers and consultants but also the end users & their Indoor Air Quality (IAQ).

- · Highly Energy Efficient & Thermally Stable
- Good Acoustic Performance
- · Fire Retardant Materials Used In Construction
- Easily Expands Over Fittings
- Even Airflow
- Easy Installation
- Low Maintenance
- Durable Finish
- Weather Resistant
- Tear And Puncher Resistant

- Minimum Friction Loss
- · Highly Resistant To Microbial Growth
- · Light Weight
- · Convenient Packaging & Handling
- Extremely Strong
- · Corrosion Resistant
- · High Tensile Strength
- Dimensionally Strong
- Minimum Friction Loss



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