Product Overview

Twiga Class 'O' rated flexible duct, designed for HVAC systems is fire rated, strong, light weight, fully flexible, compressible yet dimensionally stable.

Inner core made of aluminium/met foil is permanently bonded to a coated tough wire helix.

Thermal efficiency is achieved by wrapping with a blanket of fiberglass wool insulation in various densities and thicknesses as per the required thermal resistance on the exterior of the inner core.

Outer jacket, which acts as a vapor barrier, is tear and puncture resistant and is made of aluminium/met foil with fiberglass yarn reinforcement.

Application and Benefits

Ideal for all air-conditioning and ventilating systems in hospitals, hotels, industrial, residential, commercial and office buildings.

Available as both - with and without insulation.

Due to high degree of flexibility, it allows ducting around obstacles where prefabricated metal ducts would be difficult and costly to install.

A quick and economical means of correcting misalignment between system components.

Specifications

Standard Length	3.048 m (10 ft.)
Diameter Range	100 mm to 500 mm (4 inch to 20 inch)
Maximum Rated Velocity	20.32 m/s (4000 ft /min)
Temperature Range	0°C-90°C (32°F - 194°F)
Maximum Rated Positive Pressure	253.99 mm w.g. (10 inch w.g.)
Maximum Rated Negative Pressure	25.39 mm w.g. (1 inch w.g.)
Fire Rating	Certified as per BS 476 Part 6 and 7 (Class 'O')
For Insulated Ducts	
Standard Insulation Density	16 Kg/m^3 (1 lb/ft^3)
Standard Insulation Thickness	25 mm (0.98 inch)
Insulation R Value	0.64 m^2K/W (3.63 $^0Fft^2hr/Btu$)
NOTE: Alternate insulation densities and thicknesses are available upon request for higher thermal resistance	

Products / Material of Construction

Products:

Insulated Flexible Ducts

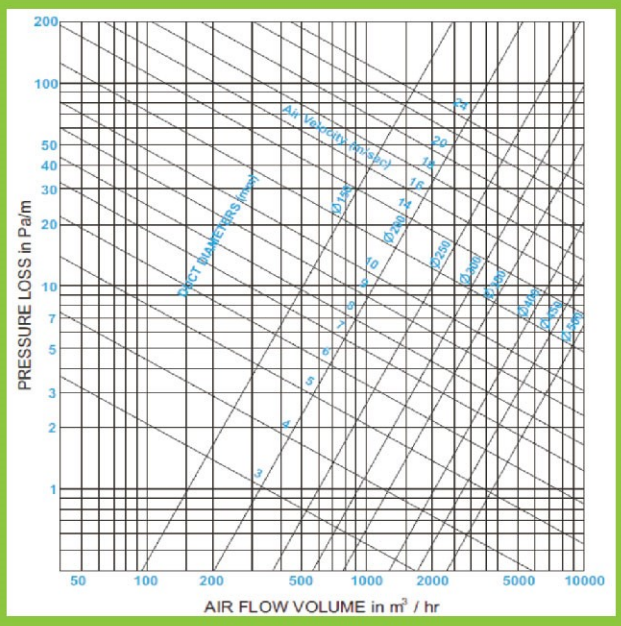
Uninsulated Flexible Ducts

Material of Construction:

Inner Core: Aluminium/Met Foil

Outer Jacket: Aluminium/Met Foil

Friction Loss Diagram



U.P.Twiga Fiberglass Limited (An ISO 9001:2008 Company)
Twiga House, 3 Community Centre, East of Kailash, New Delhi - 110 065, India
Tel.: (91 11) 2646 0860 • Email: marketing@twigafiber.com
Website: www.twigafiber.com

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