

Inspired By:



[raajairtech.com](http://raajairtech.com)

**RAAJ**  
 **AIRTECH**

We are happy to introduce ourselves as an extremely **customer centric** Engineering Company manufacturing equipment in the field of Heating, Ventilation, and Air-conditioning. The team at **RAAJ Airtech** has been working in the HVAC industry for more than 25 years now, total **collective experience** of the core team is **more than 100 years**. With our technical & young leadership, design strength & on-site knowledge, we offer products & services that allow our customer to improve their business.

RAAJ Airtech has started with its first manufacturing unit at **Bilimora**, Gujarat (India) with 8000 Sq. Ft. covered area & 25 employees, we plan to expand geographically across India for quicker customer reach.

**Bilimora** is the town where the history of “ factory made ducting “ started in India & has an excellent local resource for duct fabrication from senior plant level people to shop floor people to customer facing people. Also the place offers several associates (vendors, job-workers) who have been providing products & services to ducting industry for more than 25 years. This gives us an edge to serve our customers better.

Our main product **ducting** is always on a critical path of any project. Hence, based on the reach experience in the industry & specially from the job sites we have setup up our organisation to give state of art customer experience. Customer need is at core of our culture building at RAAJ Airtech.

RAAJ Airtech expertise lies in the creation, adaptation and improvisation of duct work & its accessories for commercial, industrial and residential HVAC applications. Along with a wide range of products, RAAJ Airtech offers expert technical support and solutions. We are **your one stop-shop** for **all ducting needs!!**

Our **biggest strength** is that we are a **young, growth oriented & flexible team** which ensures **swift delivery & service** at the **correct cost** which is the most important need of a customer.

# SPIRAL / OVAL DUCT



# SPIRAL / OVAL DUCT-

FASHIONABLE, EASY TO INSTALL AND ECONOMICAL

Spiral / Oval Duct

Indian duct manufacturing have come a long way from hand fabricated duct to factory made rectangular duct & now Spiral / oval ducts. Ducts have always been considered an product which is not esthetically appealing & hence generally been hidden behind the false sealing. Now things are changing with spiral/ oval ducts being aesthetically appealing architects have started to design the buildings with ceilings without false panels.



Today, more and more companies are switching from rectangular to spiral oval rigid duct work. This is because

## Drivers for Spiral / Oval



- ▲ Ultra-Low Leakage
- ▲ Lower Installation Cost
- ▲ Lesser Space Requirement
- ▲ Need Less Hangers



- ▲ Lower Operation Cost
- ▲ Lesser Noise Level



- ▲ Easy Cleaning
- ▲ Weighs Lighter

The big commercial advantage is the perimeter of round ducting system is less by 20% or more of same cross section of rectangular ducting. The area of ducting and insulation is less by the same percentage.

## Specifications

Thickness	: 0.50mm (26G) to 1.2mm (18G) thickness
Diameter	: <b>Unique any diameter manufacturing capability</b>
Length	: As per requirement
Material	: Galvanised steel, Aluminum, Mild steel (CRCA), Stainless steel.
Surface Construction	: Plain or corrugated (to increase the rigidity of the ducting)
Manufacturing standards	: SMACNA, IS & DW.



# DUCT FITTINGS

Spiral / Oval Duct

Elbow, Reducers, End caps, Offsets etc., with standing seam are manufactured on high accuracy special purpose machines like CNC Plasma cutter, Gore Locker, Button Locker, Roll Former & stitch welder.



# JOINTING SYSTEM

We offer wide range of joining systems to choose from depending upon cost, performance & ease of assembly.



- ▲ Plain Coupling Joint
- ▲ Coupling Joint With Gasket  
– “RAAJ Secure Seal”
- ▲ GI Flanged Joint
- ▲ MS Angle Joint



## 1. PRE PAINTED DUCT :

Spiral/ oval ducts when exposed (without false ceiling) needs to be colour coated to compliment with the interior of the building. Our Duct & Acoustical Products are available pre-coated with wide range of colours. We can even provide inner side of the duct painted with special chemicals to for **Antimicrobial** coating.



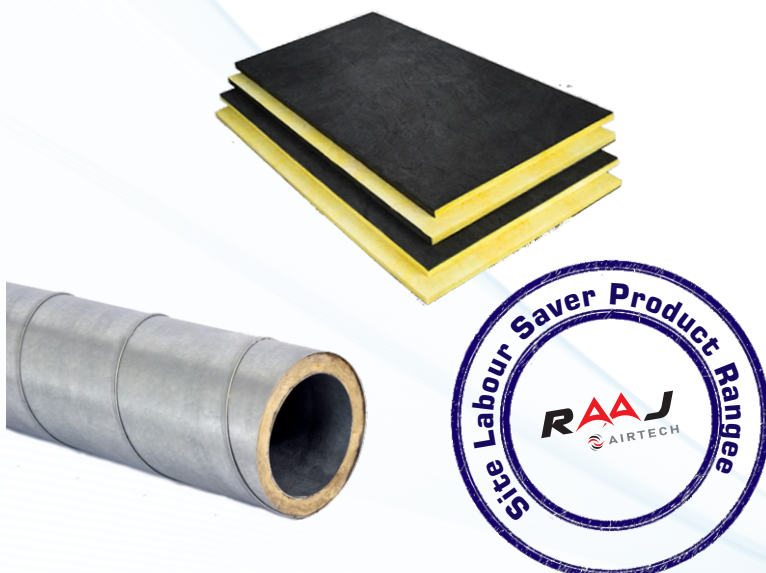
## 3. DOUBLE WALL DUCTS :

RAAJ Airtech dual wall duct and fittings are made with 1" of fiberglass insulation sandwiched between the outer shell and a **solid or perforated inner metal liner**. Dual wall duct is also available in 2", 3", and 4" thickness. Dual wall ducts are ideal for applications where insulation is needed on the duct yet the duct needs to be exposed (without false ceiling). The perforated inner line is ideal for applications where acoustic insulation is needed in a spiral/ oval duct.



## 2. PRE INSULATED DUCTS :

We also offer ducts with internal or external insulation like nitrile rubber, glass wool, rock wool & FRP (for highly corrosive applications).



## 4. FIRE PAINTED DUCTS :

Fire rated ducts are a must for several applications & we can provide our ducts painted with industry's leading fire paint brands. This will not only save time at the job-site but also ensures **better quality** controls due to **controlled environment in the factory** as compared to job-sites.



# SPIRAL/ FLAT OVAL ACCESSORIES :

## TIE RODS :

We offer few different tie rod options for you to choose based on cost & convenience

- ▲ H Frame
- ▲ Twin H frame
- ▲ Twin H frame with hanging bracket
- ▲ Custom made based on need



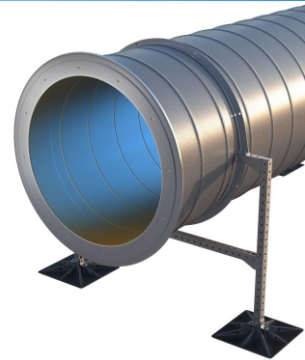
## WALL MOUNT BRACKETS :



## TOP BRACKET HANGING SYSTEM :



## FABRICATED BOTTOM SUPPORTS :



## WRAP AROUND HANGING STRIP :

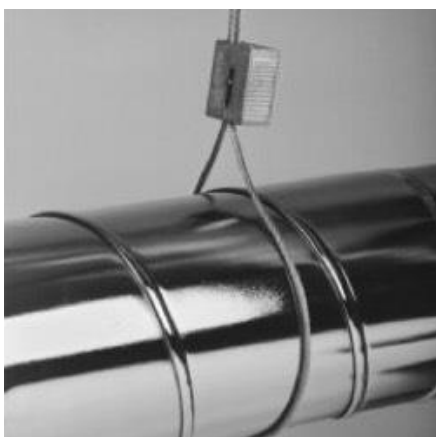


## ACCESS DOORS :

we can provide few different types of access doors to choose from.



## WIRE - ROPE HANGING SYSTEM :



## FLEXIBLE CANVAS CONNECTION :

Non insulated



Insulated flexible canvas connection

