

**AIR CITY**  
CIRCULATION • VENTILATION • SOLUTION

**HANDLING INDUSTRIAL AIR  
SINCE 1999**

## ABOUT US

If you have ever been to any office, auditorium or hall and wondered how the air quality inside is so good, probably you have been to a place where our technology is at work. At Aircity, we specialize in technologies that keep your rooms cool, pure and ventilated. We manufacture and supply the next generation HVAC with cutting-edge technology.

We are into HVAC & Refrigeration Clean Room manufacturing. The business function involves conceptualization, designing, sourcing raw materials, manufacturing and supply, installation testing and commissioning. We follow strict protocols and processes at every level of organization, and as a result can boast a high degree of order and discipline in whatever we do.

Quality and Customer Satisfaction are at the core of all our business activities. Our years of experience in the industry and expertise vested in the professional people that work with us ensure that the requirements of our clients and the utility we offer match perfectly.

Aircity HVAC Equipment Pvt. Ltd. was founded in Ahmedabad, Gujarat, in the year 1999. Since its inception, we have worked hard on our products and services creating a good client base and proving our trustworthiness. Through our experience, expertise and innovative skills we bring forth state-of-the-art technology in high performing Air Handling Units, Laminar Air Flow System and Fan Coil Units. We are committed to our goals of creating high value technology that satisfies our customers.

We follow standard quality norms as per our ISHARE, ASHARE WHO, GMP and NABH accreditations. Our ultimate goal is to provide zero defective products with best quality at reasonable prices delivered within set time lines.

## OUR VISION

Under the guidance of Mr. Girish Raval we plan to achieve our vision of becoming a profitable company with sustainable growth and creating a sustainable work and social environment. We plan to do that by providing quality product products within timeframe.

## OUR MISSION

We are dedicated towards our mission of becoming Top 10 Leading Manufacture & Exporter in World. We plan to achieve this by manufacturing high quality equipment that fulfils the needs of our clients in both domestic as well as industrial sectors.

## RESEARCH & DEVELOPMENT

These are backbone by latest Process technologies and user Friendly user interfaces that allow us to deliver these in both standard and customized specifications. Further, their special features also make them handle various industrial & domestic tasks for more simply as well as ensure less time on consuming Operation.

## CORE VALUES

Our belief is not only creating a safe atmospheric environment for our clients but also good working environment for our organization and also better natural environment for the society. We firmly believe in giving back to the society. That is why we strive to do by not only providing the best technological services but also by researching new innovative techniques that makes our technology environment friendly. Hence contributing towards a safer, sustainable future. We are working towards achieving our mission by following these core values:

- Building of trust for long term relationship
- Creating an honest and transparent working process
- Delivering results that would bear long term fruits
- Encouraging consistency and rewarding excellence

## OUR TEAM

We have the best professional team on board who contribute to the growth and development of our organization by employing their rich innovative skills, unique way of dealing with issues and dedicated efforts in research work.

Our departments are:

- Sales & Marketing
- Designing
- Product Development
- Quality and Testing
- Accounts
- Procurement & Purchase
- Finance

# AIR HANDLING UNIT (AHU)



Air Processing Units widely known as Air Handling Units are mainly used for maintaining air quality (cooling, heating, humidifying, dehumidifying, filtration etc.), air quantity (Cubic Meter per Hour (CMH) or number of Air changes per hour) and for circulation of air in the specified area through properly designed air distribution network. AHUs with various combinations of airflow, static pressure and varied selections of filtration level can be built to match customer requirements. These units are designed to offer customized solutions to suit requirements ranging from 850 to 68,000 CMH.

In a standard construction of AHU, the casing consists of double skin sandwich insulated (PUF) panels which are mounted on specially designed anodized aluminum profile structure and the casing is mounted on Galvanized iron base frame with fan, motor, cooling / heating coils, volume control dampers and filters (as per the classification required) and stainless steel drain pan, for condensate disposal.

Additional features like Heat Recovery Wheel, Heat Pipes, Plate type heat exchangers, Sound Attenuators, Motorized Damper with Actuators, Fire Control Dampers, Variable Frequency Drive Control Panels, etc., can be offered as per the requirement.

- Superior design.
- Precise workmanship.
- Frame work : Aluminum Anodize Extruded Thermal Brake Profile in 43mm , 50mm / Non Thermal Brake profile in 25mm Panel.
- Panel shell be made out of 0.8mm / 0.6 mm thk. galvanize / stainless steel plain sheet inner skin & 0.8mm / 0.6 mm thk. galvanize Pre Coated / powder coated / stainless steel finish.
- panel are insulated in Puff Insulated / Glass wool insulated / Rock wool insulated as per client requirement.
- Double skin construction with plug fans or DIDW fans.
- Unique gasket arrangement.
- Food grade rubber gaskets.
- Unique design filter frame.
- Energy efficient fan and motor.
- Low maintenance.
- Highly reliable.
- Standard & tailor made designs.
- Available in vertical or low height loft mounting design to suit site conditions.
- Available with built-in automation controls.

## Cooling Coil : DX /Child Water/ Brine coil :

- Available in standard and non-standard designs as per requirement
- Design standard follow as per Ashrae with software selection.
- Made out of Stainless steel 304 grade tube and aluminum fins.
- Made out of copper tube and aluminum fins
- Corrugated fin surface and repelled edge provides better strength and reduces the bypass factor
- Tight bond between tube and fins for efficient heat transfer
- Provided with Copper headers
- End panels made out of heavy duty galvanized iron sheets
- Top and bottom plates in GI construction for better mechanical protection



## Heating Coil :



- Available in standard and non-standard designs as per requirement.
- Design standard follow as per Ashrae with software selection.
- Made out of Stainless steel 304 grade tube and aluminum fins /stainless steel fins.
- Corrugated fin surface and repelled edge provides better strength and reduces the bypass factor.
- Tight bond between tube and fins for efficient heat transfer.
- Provided with Copper headers.
- End panels made out of heavy duty stainless steel sheets.
- Top and bottom plates in Stainless steel construction for better mechanical protection.

## Plug Fans :

Plug fans are the perfect choice for the air handling units for most critical applications. It has several special features over traditionally used DIDW fans such as:

- Compact size, quiet in operation, lesser in weight.
- Low power consumption.
- No belt drive package required means no maintenance, more reliability and no contamination generated from belt shredding.
- Choice of multiple outlets.
- Fan motor can be kept out of air circuit



## Filters :

Filter are the perfect design & selection for air handling units use as per air classification & grade :

- Moc of Filter : Aluminum / stainless steel construction in flange type or Cassette type.
- Pre filters ( eu-3/eu-4/ )Temperature Range : 50 deg.to 150 Deg.
- fine filters ( eu-5/eu-7 )Temperature Range : 50 deg.to 150 Deg.
- Bag Filters ( eu-5 /eu-9)Temperature Range :50 deg.to 250 Deg.
- Hepa filter ( eu-9 /eu-13 / eu-14 )Temperature Range :50 deg.to 250 Deg.

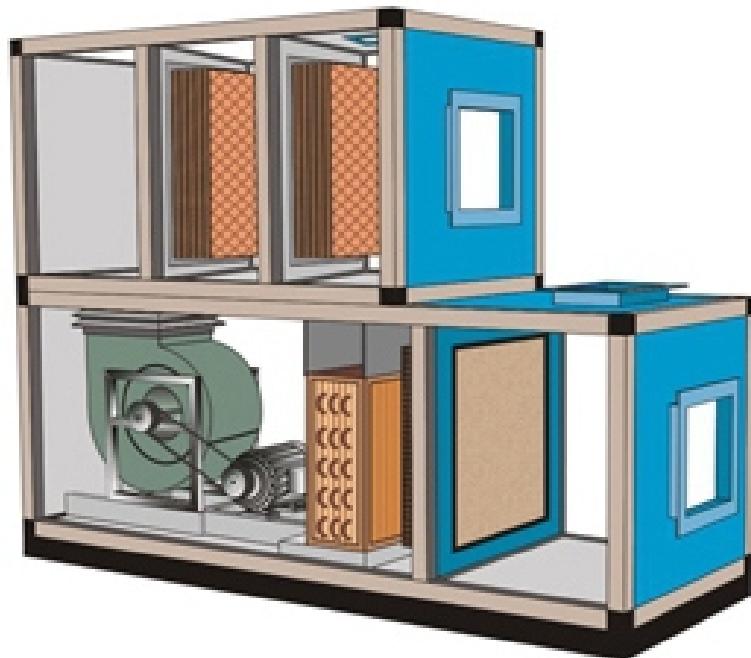


## Low Leakage Volume Control Damper :

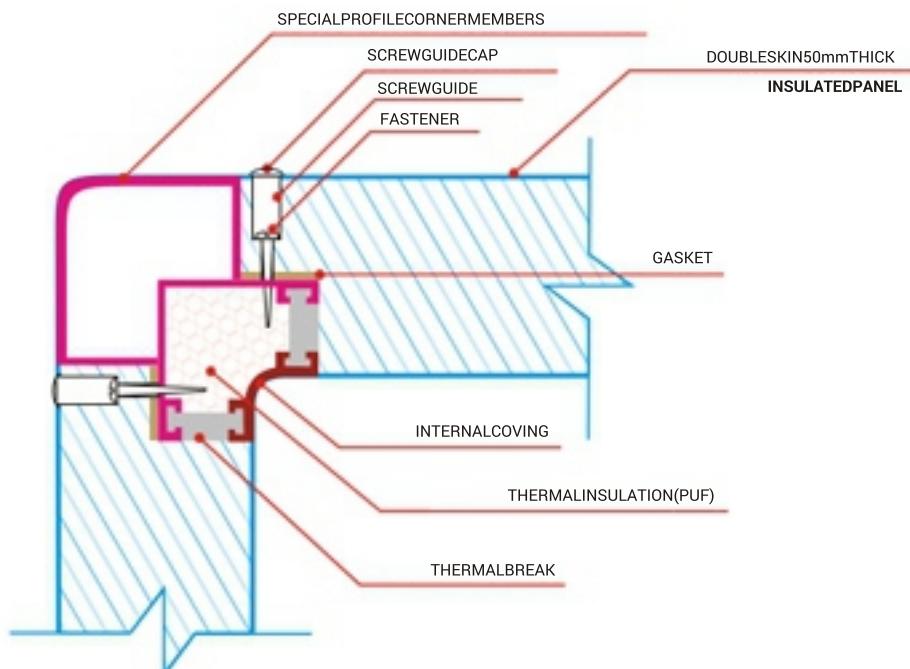


- Made out of special design profile anodize aluminum extrusions.
- Concealed type gear heavy duty nylon construction .
- Aerofoil shape blade with special profile gasket with secure grooves.
- Smooth and noise less movement.
- Electric / Pneumatic Actuator operated on .
- Industrial anodize finish provided excellent resistance against corrosion & mechanical damage.
- Superior Grade finish.

## Air Handling Unit Construction Details :

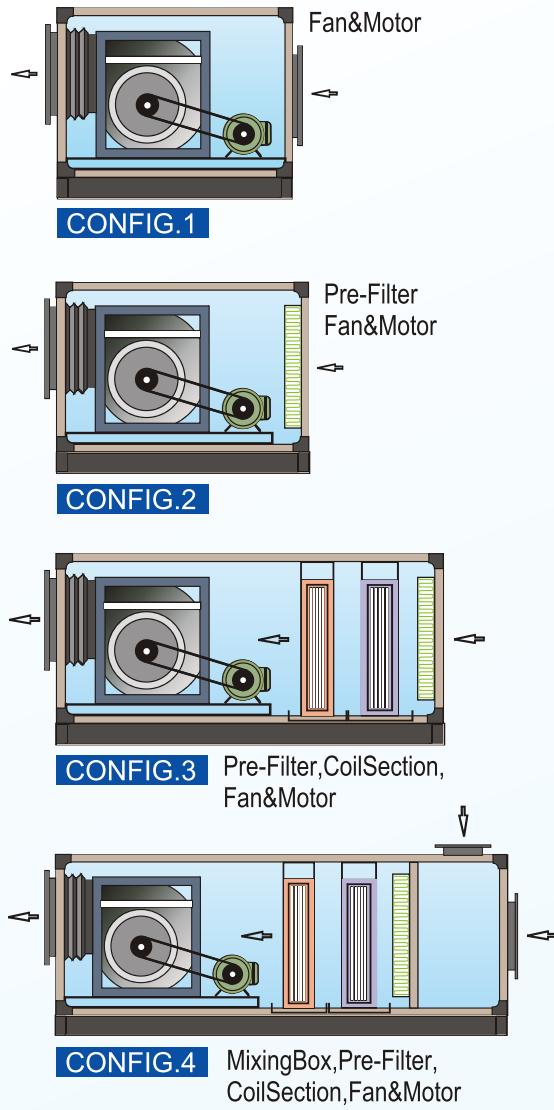


## Casing Construction Detail - Thermal Break Design :

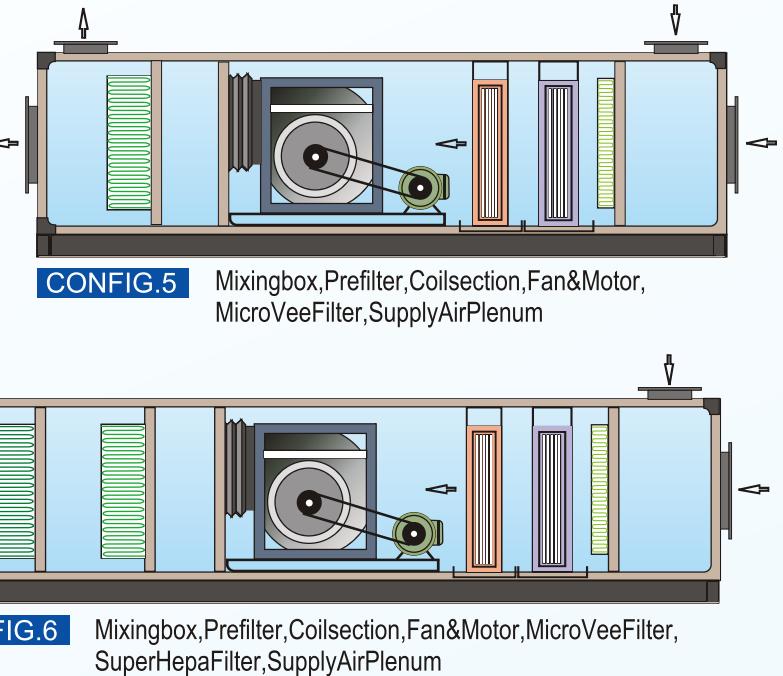


## Air Handling Unit Configuration Details :

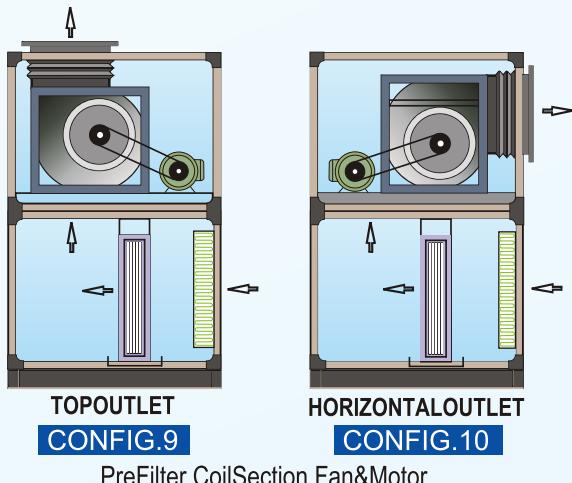
### HORIZONTAL UNIT



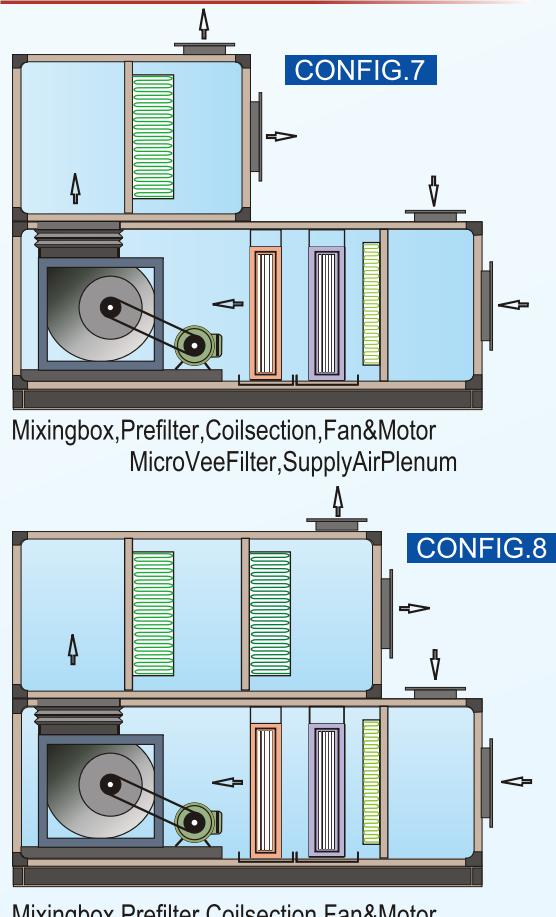
### SINGLE FLOOR LONG UNIT



### VERTICAL UNIT



### DOUBLE DECK UNIT



# AIR WASHER UNIT

## Air Washer Double Skin Type :

Tired of the humidity at home? Feel sweaty day in and day out? Well, it's time for you now to invest in a good Air Washer Double Skin Type. An air washer is basically a piece of equipment that is used to improve the quality of air. It does so by scrubbing the air that moves inside it and then adjusting the humidity levels in order to keep the environment consistent. The Air Washer Double Skin Type from AIRCITY are designed to meet your needs and also for climate control and drastically the quality of air in the environment.



### Features :

- Long and functional Life.
- Durable and Rugged.
- Most competitive price in the market, easy on your pocket.
- Made of Galvanized Steel frames of superior quality.
- Frames have a minimum thickness range of 1.4 millimeter.
- Multi slope S.S-304, Aluminum or G.I. drain pan which will ensure that there is proper drainage of condensate at all times.
- It has an induction motor which is the TEFC Squirrel cage type and functions for 50/60 cycle, 415+10% volts with AC supply in 3 phase or 1 phase.
- Common frame for blower and motor.

## Industrial Air Washer :



To meet specific industrial need of our clients, AIRCITY manufactures and exports a range of high quality Air Washer (Evaporative Cooling Unit) or Industrial air washers. Simply used for cleaning and cooling the warm and moist air that enters into these systems to a level where it meets dew point when come in contact with refrigerated water. These units help in minimizing the moisture content of air and making them fresh from its actual content. These products are widely demanded by the clients for their hassle free performance and durability. Besides, one can get these products at reasonable rates.

These are washing unit are assembled with:

- Water Piping
- Water Tank
- Float Valve
- Strainer
- Receiver Valves

## Features :

- Strong body construction which also makes it durable.
- These products have a sturdy make and they are non-corrosive in nature.
- These Humidification Systems are highly light in weight.
- Our ventilators are acknowledged for their simple installing. This ventilator is highly resistant scratch.
- The roof sheets are manufactured using innovative technology and high class machines.
- Our eco friendly Industrial Air Washer is applicable for effective cooling through a natural process and provide fresh ambiance.
- The offered washer is manufactured is using premium grade material and ultra-modern machines in adherence to set industry norms.
- The air washer can be operated by direct drive or driven by a belt. Made using superior quality stainless steel, mild steel.
- Compact pre-fabricated design to take less space, consuming only 40% of conventional systems.

AIRCITY is a very considerate company. It never compromises with the quality of its equipments. It tries to work according to the convenience of the clients.

### Evaporative Cooling Unit :

Evaporative cooling is a simple, cost-effective method for cooling indoor spaces. However, depending on the climate where you live, evaporative cooling might not be the most effective cooling option for you. In order to cement our reputation in this domain, AIRCITY is instrumental in manufacturing, exporting and supplying a broad range of Evaporative Cooling Unit. These units are currently in use in a variety of evaporative cooling applications such as generator rooms, gas turbine intakes, industrial cooling of hot spots and hot zones, comfort cooling, commercial agriculture to name a few. Our products are made using premium raw materials and latest methods of production, which assures durability and efficient performance. Highly demanded for its high quality and efficiency, this unit is available in several specifications as per the demand of our clients.



## Features :

- Single and Double Skinned Construction.
- Common base frame for Motor and Blower.
- Multi slope S.S-304, Aluminum or G.I. drain pan ensures proper drainage of condensate.
- Microbe filter along with primary filters are offered along with these products.
- Cellulose pad/ Spray type (single bank/ double bank) humidification systems are manufactured by us.
- Evaporative cooling pads make: Munters (USA) and also can be provided as per specification of a client.
- Spray type humidification systems are fabricated out of G.I/ M.S. Header and Brass/PVC Nozzle.
- Perforated sheet is also provided in spray type humidification systems to ensure proper distribution of air thought out the humidification chamber.
- We use 4/2 bend PVC /G.I Eliminators to ensure that no water is carried away to Blower section and further to duct system.
- These evaporative air coolers are highly appreciated by our clienteles for its excellent quality, robustness and premium functionality of providing cool air especially during hot summer season.
- Our evaporative air coolers are very easy to control and provide low noise and excellent energy efficiency for long lasting use.
- It is very economical.

We are amongst the trusted manufacturer and supplier of supreme quality range of Evaporative Coolers. We make sure that our clients don't face any kind of discomfort. We have highly trained professionals who do the work with utmost perfection. These systems are manufactured using excellent quality raw material.

## Single Skin Air Washer :

In a very hot environment, what better way to cool than use an air washer? AIRCITY has the best option for Single Skin Air Washer. They can be used for a variety of reasons and can provide perfect and comfortable conditioning for office and home. They are suitable to be used in hotels, malls, garment units or even other factories which need constant cooling. Most engineering and industrial units also use these single skin washers.

With a very rich experience in the industry, AIRCITY can give you the best Single Skin Air Washers at the most competitive prices in the market.



## Features :

- It introduces 100% fresh air unlike ACs which circulate the old air.
- They can continue cooling the area without needing the doors and windows to be shut.
- The installation costs are 70% lesser than the normal AC costs.
- Also the running costs of a Single Skin Air Washer are also 90% less than that of an AC.
- It is made of cast iron and does not need any kind of insulation.
- The fan is Centrifugal Fan-Forward which has a Curved/Backward Curved design more effective

## Heat Transfer Coil - Dx. evaporator - Chilled Water-Hot Water

- Computerized Selection.
- Seamless Imported Copper Tube in Level wound coil.
- Die-Formed Aluminum Fins made on automatic fins punching machine. Copper fins available upon request.
- Imported Return 'U' bands with integral solder rings.
- Heavy duty Copper / M.S. Headers.
- Mechanical tube expansion for perfect bounding.
- Perfectly located purge valve and drain valve for Water coils.
- Die-Formed Heavy Gauge Galvanized Steel casing, end panels for proper protection and support. Stainless Steel casing available upon request.
- Tested with pneumatic pressure under water.

### Direct Expansion Coil :

If you want maximum possible heat transfer efficiency, then Direct Expansion Coil is what you need. These are engineered and built in a way which would give maximum efficiency and at the same time would not burn a hole in your pocket. AIRCITY uses the coils which are made with the highest quality materials and this ensures that the heating coils are able to give perfect performance all-round the year. Each coil is inspected under rigid quality control measures and the ripped air flow design makes it a highly efficient way to transfer the heat from one place to another.



### Features :

- They are available as Available for R404A, R-22, R134a and R407C.
- They have a total number of 7, 8, 10 or 12 fins per inch spacing.
- They can be used for Cooling and Dehumidifying and hence are used in many industries like processing industries and manufacturing factories.
- They have from 2 through 10 rows deep.
- Also available are from 6" through 120" nominal tube length.
- And last but not the least, they also have from 6" through 36" high face.

### Chilled Water Coil :

AIRCITY has carved a niche as one of the trustworthy manufacturers, is pliers and exporters of chilled water coil in India. The coils are widely demanded in the domestic and international market for their application in cold room, refrigerator, air conditioner, etc. In its construction, the variant is includes corrugated or flat foils. Fin option is also available between bare and hydrophilic. Copper pipe tubing also adds to its work efficiency. Buyers are facilitated with the availability of the chilled water coil in various specifications. Additionally, conventional packaging is provided to prevent damage during transit.



## Features :

- Connections in the coil are male solder headers.
- They have a factory installed to air terminal.
- 1/2" O.D. copper tubes, .016" wall thickness, mechanically expanded in fins per inch. Manifolds are minimum .028" wall thickness.
- They also have aluminum corrugated fins with rippled edges, .0055" thick, 10 per inch.
- Factory pressure tested for leaks with dry nitrogen to 400 psi with a minimum burst pressure of 2500 psi.
- They are designed to give a maximum amount of heat transfer and low water pressure drops using single and multi-circuited designs.
- They also have 20 gauge galvanized sheet metal casing with 18 gauge end plates

## Hot Water Coil :

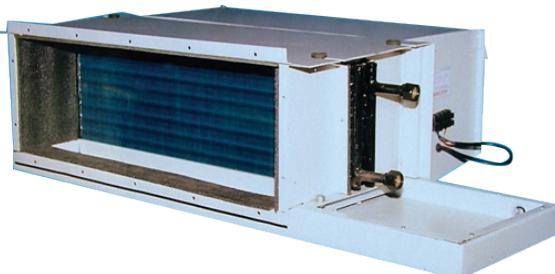


The hot water coils are just like cooling coils, the only difference being the fact that their functionality is the complete opposite. They are idea for use with hot water solutions and streams. It is usually used to heat the water in a glycol-air heat exchanger. Aircity makes some of the best Hot Water Coil in the market. Also, they are available at a much more competitive price which makes it a favorite with many of the customers. Aircity manufactures the hot coils using top notch materials which ensure that your coil will go on for years without rusting.

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## Fan Coil Units :



### Specifications:

Aircity Fan Coil Unit Galvanize Powder Coated Construction With Trouble free silent operation , Fan Coil Unit available in various standard and non -standard tailor made design such as :

Hideway type unit in ceiling suspension horizontal design.

Hideway type unit in floor mounted & wall mounted vertical design.

Ductable Unit In Single Skin & Double Skin Construction

Capacity : 0.75Tr. to 3.0 Tr. Hideway Unit and 3.0 Tr. to 11.0Tr. Ductable Units

## Features :

- Fan Coil Unit are made out of Galvanize Powder Coated Construction .
- Double skin sandwiched insulated Drain Tray with extended drain pan .
- Multi Speed Single Phase Double / Single Shaft Motor .
- DIDW Forward Curved Aluminum Silent Operation Multi Blower with Statically & Dynamically Balance.
- 3-4 Row Child Water Coil with aluminum fins with copper tube 12 to 13 FPI.
- R.A.box with 3 ply metallic pre-filter.
- Two Way / Three Way Valve ,
- Sleek Design and Unique Finish.

## Centrifugal Blower :



### Features :

- Capacity: 150 CFM to 85,000 CFM (200 CMH to 1,40,000 CMH).
- Pressure: 50 mm WC to 1500 mm WC (2" WC to 60" WC).
- Motor HP: 1 HP to 200 HP.
- Type: Induced Draught, Forced Draught.
- MOC: MS, SS 304, 316, 316L, FRP

### Application:

Industrial furnace and Boiler, Chemical Processing Plant, Textile Plant, Cement Plant, Dairy Refrigeration Plant, Gas and Oil Firing Burner, Dust Collecting System, Ceramic Industries, Petro – Chemical Plant, Power Plant, Air Conditioning Plant, Ventilation System (in Hotels, Hospitals, Restaurant, Residents, Cinema Hall, Tunnel etc.), Pneumatic Conveying System of Powder and Granules.

### Unique Features :

Blowers are backed by computer software or design selection and detailed performance characteristics. It can offer low pressure ventilation fans with very high air volume and also makes very high pressure fan. It can offer various types of shaft seals to avoid leakages of gases. The Aircity blowers have careful design against noise pollution.

## High Pressure Blower :

### Description :

Heavy Duty Pressure Blower, High Pressure Air Handling.

### Application:

Specifically designed to handle relatively low flow and high static pressure industrial applications without having to reduce wheel widths. Aircity wheel is ideal for handling clean, hot or particulate-laden air. Applications include material conveying, product drying, air pollution control, fluid bed aeration, glass blowing, textile fiber stripping, combustion air, gas boosting, high pressure industrial-process systems and scrubber exhaust.

**Sizes (Wheel Diameters) :** 19.63 to 58.94 inches (500 mm to 1,500 mm)



## Axial Flow Fan:

Made to order Industrial fans to provide ventilation and cooling for all types of Engineering and Ventilation projects. Fans are designed to handle large air volumes at high pressures.

**Sizes:** Aircity Axial Flow Fan covers a wide range from 380mm (15") Diameter to 1220mm (48") Diameter, handling air up to 70mm approximately.

**Fan performance:** All fans are tested to the latest on basis of the air duly specified, the most efficient fan is selected by consulting master chart of the performance curve.

**Variety:** The fans are available in single stage, 2 stage contra-rotating and multiple stages with the operation in higher temperatures, bifurcated fans are recommended.



## Hepa Filter Housing Box:



### Specifications:

We are supply of Ceiling Suspension Galvanized / CRCA sheet Powder coated construction Hepa Filter housing Box with Low leakages G.I. Gear operated volume control damper, side connection, DOPT Testing arrangement, Pressure Plate to fixing of filter, internal arrangement for fixing of HEPA filter with HEPA filter & Aluminum / Ss304 Capsule perforated supply air Grill.

### Suitable size Filters :

- 1ft.x 1ft.x 6 inch to 2ft x 2ft x 12inch.

## Return Air Risers :



### Specification:

Manufacturer & Exporter of wide range of Return Air Riser made out of 18/20 swg. CRCA/Galvanize powder coated / stainless steel 304 construction for suitable of wall mounted top / side connection with arrangement to manually operated volume control Damper, Aluminum Powder coated / SS304 capsule perforated grill & 20u HDPE washable cassate type pre filter.

### Features :

- Durable
- High Performance
- Superior Quality



CIRCULATION • VENTILATION • SOLUTION

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