



AIR SOLUTION CORPORATION

An ISO Certified Company : 9001:2015



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About ASC



Air Solution Corporation® was established by the experienced professionals in the year 2015, at Bawal (Rewari) in a small way and progressively expanded all over India.

Key strength of ASC to provide the services of HVAC works in scheduled time line with quality & budget.

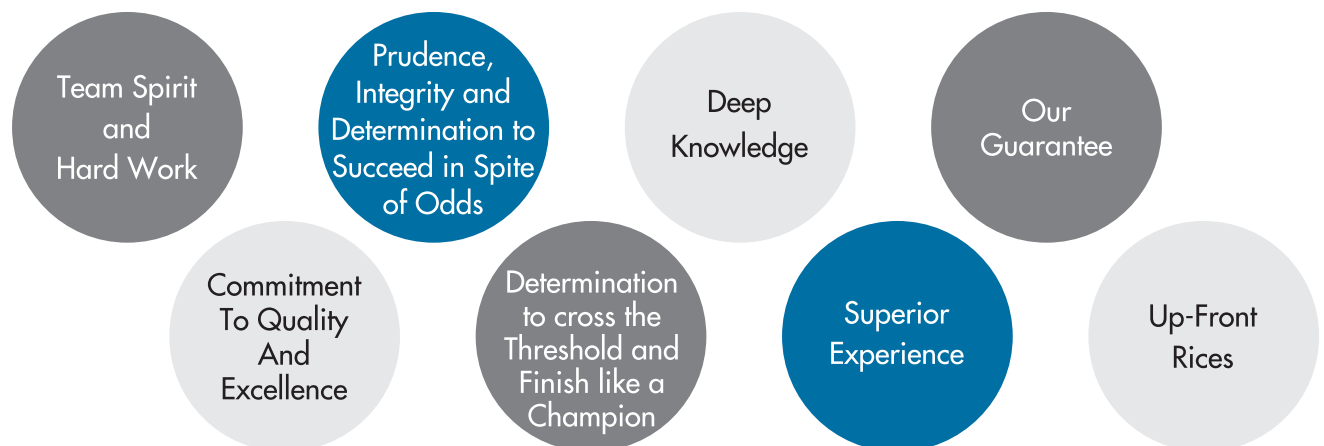
Our expertise embraces all aspect of HAVC. Our commitment ranges from the initial advice and design stage, to installation, commissioning & final hand over the system, additional training provided (if required).

ASC's present team consists of 30 Nos. of Qualified, Energetic and professional people apart from sub-vendors and associates.

Our Values

Air Solution Corporation is specialised in the Design, Development, Manufacturing, Installation and Validation of turnkey and modular clean room & HVAC solutions at most competitive prices. As a corporate, our goal is : To satisfy customer needs and expectations by supplying innovative, qualitative, reliable products & services at optimum prices. To enhance our technical know how to confront each challenge with stead fast determination.

We have fully infrastructure with the technical and experience engineers to view the projects and challenges.



Quality Policy

The Company's quality Policy calls for continual improvement in its quality management activities, and business will be conducted according to follow a concept of continuously improving the effectiveness of this quality management system and make best use of our management resources in all quality matters.



Salient Features

SINGLE WINDOW SERVICE:

For all HVAC works, we are providing a single window service that includes but not limited to budgeting on behalf of client, suggestion in drawings/specifications, suggestions for modification/upgradation of existing setup & post commissioning

EXPERIENCED & QUALIFIED TEAM:

Our Director have more than 20 years of experience in the field of MEP works. Young supervisory team is Degree/Diploma Engineers with good exposure. So, as a whole team is a mixed experience , Qualification, Innovative Skills & zeal to deliver the best on time.

FOCUS ON BETTER COORDINATION:

Our supervisory staff is trained for better coordination with client, consultants, sub-contractors & other services to deliver the project with quality & target time/as per schedule.

HEALTH SAFETY & ENVIRONMENT:

We understand that the working safety contributes to the productivity of our labor and to the quality of the work. To attain the same we conduct the training by the immediate supervisors at sites & office.

INNOVATIVE SOLUTION:

We know that yesterday's solution often represent today's dilemmas. Therefore we view every project as a fresh opportunity for continuous improvement. This results in maximum cost effectiveness, efficiency & productivity for our clients/custmors.

Our Services

We provide our services in the Automobiles Industries, Pharmaceuticals, Monucturing Plant, Malls, Hotels, Offices Energy and Nuclear Power Plants.

TYPE OF WORKS HANDLED/ONGOING:-

- AIR CONDITIONING
- DRY VENTILATION
- CLEAN ROOMS
- COLD ROOMS
- ELECTRICAL
- PLUMBING
- FIREFIGHTING
- HVAC
- Maintenance of HVAC system.



MAJOR PROJECTS

We have executed the Air Conditioning and Ventilation systems for the following clients. Our scope was to design, supply, erection, testing, commissioning, validation and handing over to the client in all respects.

ASC PROJECT DETAILS			
S.NO	DESCRIPTION	TYPE OF WORK	VALUE OF PROJECT (In Lakhs)
1	TATA PROJECTS ,ODISHA	HVAC SYSTEM	490
2	SONA BLW PRECISION	HVAC & CLEAN ROOM	490
3	BKT TYRES , GUJRAT	HVAC SYSTEM	328
4	BKT TYRES , GUJRAT	VENTILATION SYSTEM	235
5	ISRO (CHENNAI)	HVAC SYSTEM	173
6	BKT TYRES , GUJRAT	HVAC SYSTEM	162
7	BKT TYRES , GUJRAT	HVAC SYSTEM	156
8	AIMIL PHARMA	CLEAN ROOM	145
9	SPECTRUM METRO	BASEMENT VENTILATION	98
10	CEAT SPECAILTY TYRES	HVAC SYSTEM	72
11	GMR -AIRPORT - DELHI	HVAC SYSTEM	57
12	TOYODA GOSAI	FUME EXHAUST SYSTEM	37
13	CONTINENTAL MEERUT.	VENTILATION SYSTEM	36
14	BKT TYRES BHIWADI	VENTILATION SYSTEM	35
15	TPR NEEMRANA	MIST EXHAUST SYSTEM	31
16	IOCL (BRAUNI)	HVAC SYSTEM	28
17	GMR -AIRPORT - DELHI	HVAC SYSTEM	27
18	HANKUK CONSTRUCTION	FIRE FIGHTING	26
19	TENNECO AUTOMOTIVE	CLEAN ROOM	25
20	AHLCON PARENTERALS	HVAC SYSTEM	23
21	MINDA FRUKAWA.	VENTILATION SYSTEM	20
22	CONTINENTAL BREAK.	CLEAN ROOM	18
23	PPAP AUTOMOTIVE	FUME EXHAUST SYSTEM	17
24	TAMARA DHATU	CLEAN ROOM	16
25	BAVERLY BAKERS	HVAC SYSTEM	16
26	SILVERTON (HOTEL)	HVAC & PLUMBING WORK	15
27	MONSOON FOREST (HOTEL)	HVAC & PLUMBING WORK	12
28	RANE NSK	CLEAN ROOM	11

Appreciation Letter



Major Projects Executed

BKT Tires, Bhuj

BKT bhuj plant is spread over more than 325Acres including their R&D Centre, Manufacturing facilities, carbon black plant and housing colony. BKT is our one of most esteemed client, we have completed many projects in BKT including ventilation and Air conditioning.

- Projects Cost: 10Cr and more
- Project technical:
- Air Washer: More than 25Lakh CMH
- HVAC: AHU, FCU and unitary air conditioner
- Ducting: More than 30000 Sqm.
- Electrical Panels, Cables and Other HVAC accessories.



Major Projects Executed

Tata Project, Odisha (Bhawani Patna Medical College)

Project building is a 100 Seat medical college constructed in approx. 26.8 Acres of land in bhawanipatna Odisha

- Project Cost: 4.90Cr
- Project technical:
- Water Cooled Chiller: Screw Chillers 350TR – 3Nos.
- Cooling Tower: 450TR, 3990LPM - 3Nos..
- Indoor Machines: AHU, TFA, FCU, Cassette and High wall split Units New Line Ducting with Insulation: 4500 Sqm.
- Chilled water piping: 5000RMT
- Condenser water Piping: 380RMT



Major Projects Executed

Indian Space Research Organization

5,000 capacity Launch Viewing Gallery is constructed in the form of a stadium, and placed at an appropriate location with clear line of sight to the two launch pads of the Sriharikota.

- Project Cost: 1.73Cr
- Project technical:
- VRV: 300 HP
- Make: Blue star
- Copper Piping: 1300 Rmt
- Indoor Machines: AHU (12000 & 15000 CFM)
- Ducting with Insulation: 2372 Sqm.



Major Projects Executed

CEAT Tires

- Project Cost: 72 Lakhs
- Project technical:
- Double Stage Air Washer: 136000 CMH
- Ducting: 1800 Sqm.
- Insulation: 1800Sqm
- Electrical work including Cables, Panels and other accessories.



Aimil Pharma

AIMIL, a renowned name for Quality herbal health products in market established with aim of taking the legacy of Ayurveda ahead scientifically since 1984

- Project Cost: 1.45Cr
- Project technical:
- Clean Room: 100000 Class
- Accessories: Passsbox, Air Shower, Air Curtain, Viewing window and clean room doors.
- AHU: 22000 CFM
- Condensing Unit: 110 TR
- Ducting with insulation: 1000 Sqm
- Electrical Panel with accessories

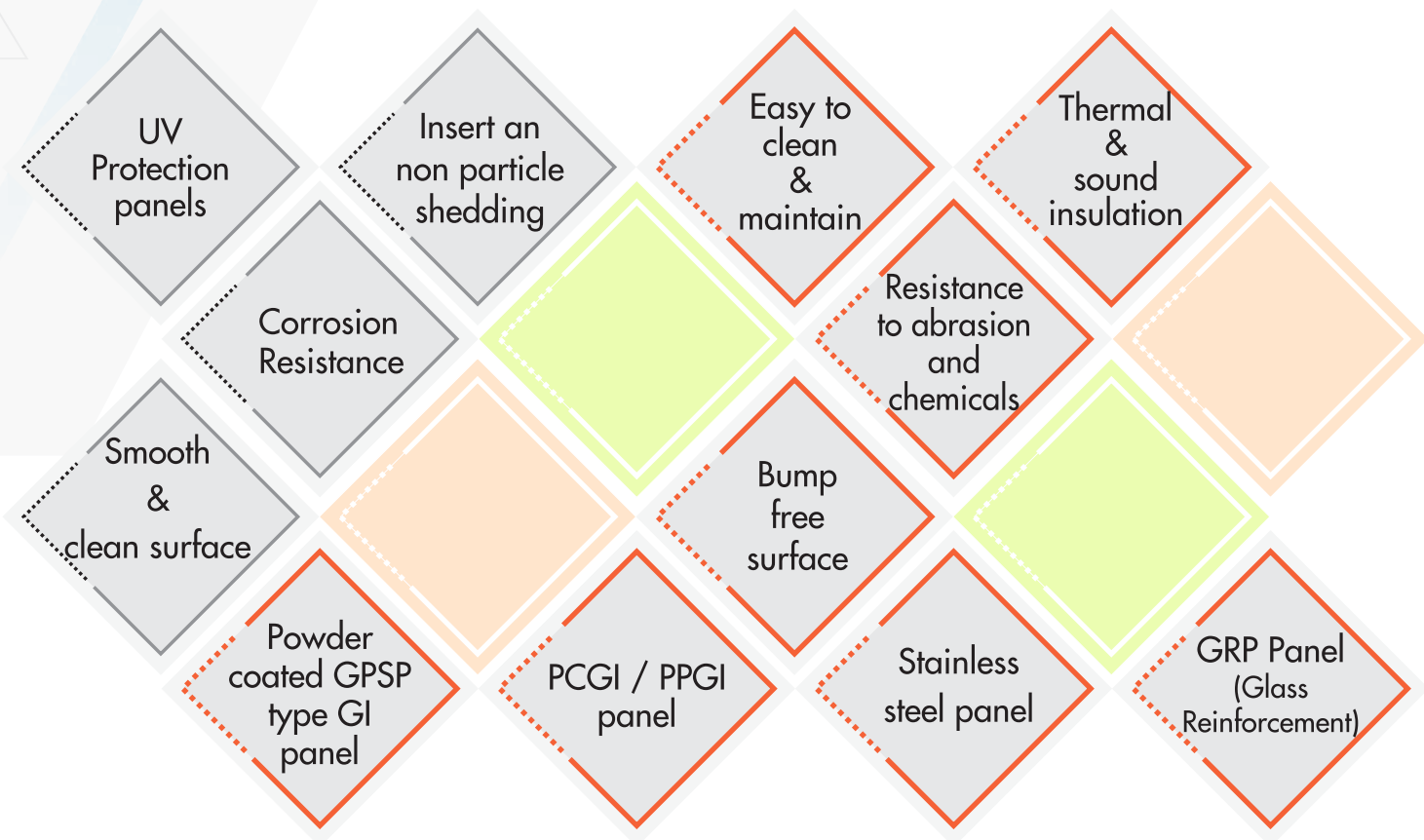


Clean Room Divison

Clean room is an area where Temperature, Humidity, Dust, Static Pressure, Bacteria, Fumes are controlled as per specified class. Clean room is an integration of various components like enclosure made up of panels infill With PUFF/PIR/ROCKWOOL, Air conditioning to maintain positive pressure, Air change, Temperature, humidity, various types of flooring depending upon customers specific requirements & clean room equipment's like Air shower/Pass box , Laminar Air flow & garment booth.

- To supply & install clean rooms of 100 class to 100000.
- Pre Engineered, Pre fabricated puff panels/PR & Rockwool enclosure & structure.
- HVAC projects (SITC of chiller/VRV/AHU)
- Epoxy flooring, FRP, ESD etc.
- Filters (HEPA, FINE, PRE)
- Clean room door, Fire rated Door & Puff panel Doors.
- Ducting & piping work in clean room.

PUFF PANELS: -



Panel Thickness :- 40 mm / 50 mm / 60 mm / 80 mm / 100 mm.

Clean Room



Clean Room Products

Static Pass Box

Static pass box is used for transfer products or materials between two same environments or clean environments. The main features of a static pass box are:

- Static pass box made of stainless steel in the cubical shape
- It has an electromagnetic interlock system with an LED indicator on both sides to indicate the doors.
- In the static pass box UV light of 8 watts with the fluorescent lamp in the static pass, a box is about 40 watts.
- The static pass box must have a UV light meter with their use records.

Dynamic pass box

Dynamic pass box mainly installed between non controlled environments to a controlled environment. we can say it used to pass materials from non-controlled to a controlled area. the main features of the dynamic pass box are

- The Dynamic pass box is made of Stainless steel (SS 304) having a cubical shape.
- The dynamic pass box may be of different kind like cascade, sink, or bubble.
- It has an interlocking system on both sides to protect from contamination and cross-contamination.
- Dynamic pass box door can open one side at once and one door will be closed other side.
- It is fitted with a suction filter of around 0.3 microns with a HEPA filter.
- Dynamic pass box also fitted with a pressure Magnehelic gauge ranging from 0 to 25 mmwc.

Air Shower

High velocity shower to ensure efficient scrubbing action to remove particulate matter. Operating modes can be programmed in the field. Microprocessor controller supervises all functions.

- Mini-pleated HEPA filtration achieves > 99.99% typical efficiency at 0.3 micron particles.

HEPA Filters

HEPA Filters are used in pharmaceuticals & food industries to achieve the desire class in laminar air flow for bacteria free air circulation system. HEPA filters constructed with Micro fiber glass paper media with hot melt pleating & aluminum separator. Efficiency – 99.97% - 99.99 % down to 0.3 micron.



Static Pass Box



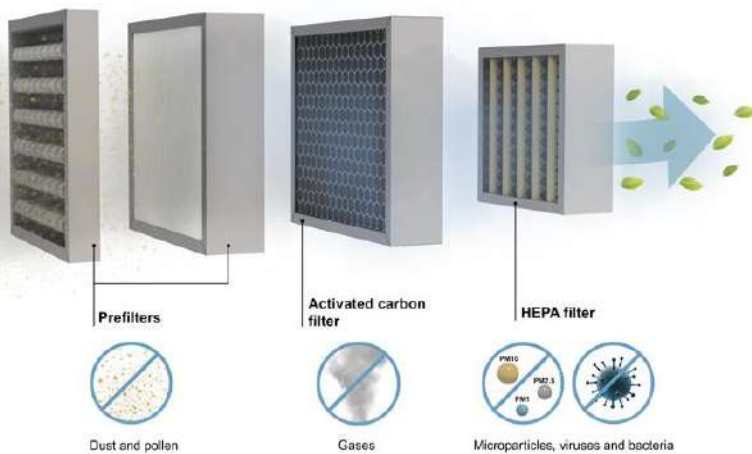
Dynamic pass box



Air Shower



HEPA Filters



Hepa Filter Details

Hvac Division

Air Handling Unit

This is used in a closed area to circulate air and condition the air with help of Hot & Cold coil. This unit is a closed enclosure made up with puff panels, coils, filters, Heaters etc. It is connected with Outdoor unit & chilled water line of chiller.

TYPES: 1- Floor Mounted 2- Ceiling Suspended

Fan Coil Unit

A fan coil unit (FCU) is a device that uses a coil and a fan to heat or cool a room without connecting to ductwork. Indoor air moves over the coil, which heats or cools the air before pushing it back out into the room.

TFA (Treated Fresh Air)

TFA stands for "Treated Fresh Air" used to condition fresh air with help of Hot & Cold coil. This unit is a closed enclosure made up with puff panels, coils, filters, Heaters & Dampers etc. It is connected with Outdoor unit & chilled water line of chiller.

Multi Stage/Pharma AHU

We provide special AHUs for pharmaceutical industries, clean room applications, manufacturing facilities to maintain IEQ, temp and humidity with energy efficient solutions.

Dedicated Outdoor Air System (DOAS)

A dedicated outdoor air system (DOAS) is a type of heating, ventilation and air-conditioning (HVAC) system that consists of two parallel systems: a dedicated system for delivering outdoor air ventilation that handles both the latent and sensible loads of conditioning the ventilation air, and a parallel system to handle.



Ceiling Suspended



Floor Mounted



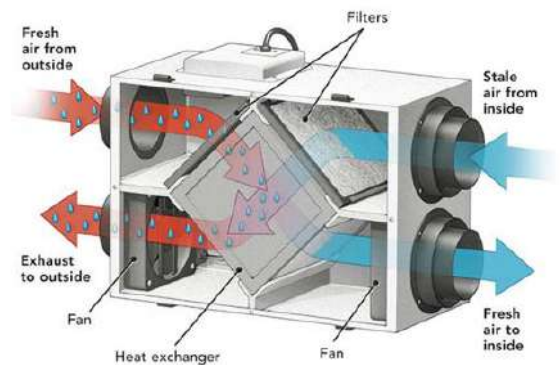
Fan Coil Unit



Treated Fresh Air



Multi Stage/Pharma AHU



Dedicated Outdoor Air System (DOAS)

Hvac Division

Ductable Unit

A ducted air conditioner consists of two units—an indoor unit typically installed in the ceiling, and an outdoor unit. The two units work together to perform a refrigeration cycle, with conditioned air circulated and delivered via a series of ducts and vents.

Split Air Conditioners

Split unit work in the same way. Split system units are installed on the wall, The outdoor unit of all aire conditioner is mounted outside.

Cassette Air Conditioners

Cassette units work in the same way. Cassette indoor unit itself sits flush to your ceiling and distributes conditioned air through two, three or four sides of the unit. The outdoor unit of all air conditioner is mounted outside.

Tower Air Conditioners

Tower units work in the same way. Tower AC installed on floor while cassette units into the ceiling. The outdoor unit of all air conditioner is mounted outside.

Smoke Eaters

Smoke eaters are essential for any business that needs to create a comfortable indoor environment and protect workers and patrons from the byproducts of smoking. Cigar lounges, vape shops, hookah.

Grill

We supply grills with and without damper in GI, SS, and aluminum as per clients' requirements in all the possible sizes.



Ductable Unit



Split Air Conditioner



Cassette Air Conditioner



Tower Air Conditioner



Smoke Eaters



Grill

Grills/Diffuser/GI Dampers

Double Louver Grill

High quality extruded aluminium profile with 30 mm flange width as standard. 24 mm flange width as optional. Blades: Aerofoil blades from aluminum profiles. Blade spacing: 20 mm as standard.

Square Diffuser

Aluminum Extruded Diffuser features solid aluminum body with proper seal to prevent air leakage. Known for its advanced features like maximum rotation and excellent features of spot heating and cooling, our aluminum extruded diffuser has become the preferred choice of our valuable customers.

JET Nozzle

The JND Jet Nozzle Diffuser and the outer installation ring are manufactured from quality aluminium, creating a long lasting, robust and low maintenance ventilation solution. They are available to order in a range of sizes including: 100, 125, 160, 200, 250, 315, 400 and 500, all offering variations on air delivery.

GI Dampers

We are offering GI Volume Control Damper. The dampers offered by us are made from GI. These dampers have been designed to control air flow.

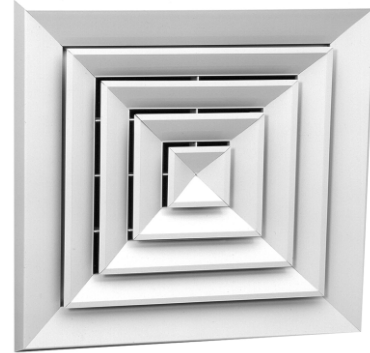
GI Duct

- Spiral Duct
- Rectangular Duct

Rectangular duct is made up of GI material with L shape TDF flange technology & spiral type round duct to transmit conditioned air from equipment to plant.



Double Louver Grill



Square Diffuser



JET Nozzle



GI Damper



Spiral Duct



Rectangular Duct

Ventilation Division

- AIR WASHER UNIT
- CENTRIFUGAL EXHAUST FAN
- TUBE AXIAL FAN
- TWO STAGE AIR WASHER
- DUST COLLECTOR

Air Washer Unit

1. Air Washer Unit (Single Stage) 2. Two Stage Air Washer

This is used in a well ventilated area to treat fresh air with evaporation method. This unit is a closed enclosure made up with puff panels, pad, filters, pump, blower, motor etc.

Applications: Electrical room pressurization, staircase lobby pressurization, machine shop ventilation, basement ventilation and other open areas where volume/spot cooling needed.

Centrifugal Exhaust Fan

Centrifugal exhaust fan is usually used to exhaust hot air from machines or specified area. The primary purpose for having an exhaust fan is to remove the moisture/odor/smoke out from the space. These fans help to control and eliminate odors & smoke. Additionally, they add to the safety of the space and its residents by reducing fumes, smoke and contaminated air that could potentially cause health-related issues.

Dust Collector

This is used in a well-ventilated area to treat fresh air with evaporation method. This unit is a closed enclosure made up with puff panels, pad, filters, pump, A dust collector is a system used to enhance the quality of air released from industrial and commercial processes by collecting dust and other impurities from air or gas. Designed to handle high-volume dust loads, a dust collector system consists of a blower, dust filter, a filter-cleaning system, and a dust receptacle or dust removal system. It is distinguished from air purifiers, which use disposable filters to remove dust blower, motor etc.

There are two methods of ventilation in buildings.

Tube Axial Fan

This method of ventilation is used to add fresh/make-up air in the vicinity without any change/restrictions in humidity change. Ceiling Hung / Floor mounted Exhaust air Vane Axial flow fan suitable for outdoor/ indoor application of following capacity with heavy Gauze GI/ MS casing and aluminum alloy impellers with high efficiency, blades, the impeller directly driven .Fan and Motor shall be suitable for operation at minimum 250 deg C for 2 hrs etc.

Application

Basement Ventilation

Staircase pressurization

Smoke extraction

Fire lobby pressurization

Machine shop pressurization



Air Washer Unit



Two Stage Air washer



Centrifugal Exhaust Fan



Dust Collector



Tube Axial Fan



Fume Exhaust

Project Pictures



Chiller Room



Air Washer



Round Duct



Ducting



Air Handling Unit



Clean Room

Our Customer





AIR SOLUTION CORPORATION

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