



**Complete
HVAC
Solution**

SANT

**INTEGRATING, INNOVATING AND PIONEERING FLUIDS
SINCE 1953**

HVAC SYSTEM

Air Treatment & Ventilation

Air Scrubber Wet Scrubber

Capacity range 2000 CFM – 16000 CFM



Features

- Double skin casing in extruded Aluminium mainframe
- Encapsulated motor, out of the air stream
- Suitable for high temp applications
- Corrosion free PVC piping and nozzles (easily replaceable)
- Direct driven fans for high efficiency

Applications

Commercial kitchens, furnace exhausts, welding areas, dust producing areas etc.

Dry Scrubber (Electrostatic Precipitators)



Features

- Double skin casing in extruded Aluminium mainframe
- Encapsulated motor, out of the air stream
- Suitable for high temp applications
- Easily cleanable ESP modules
- Direct driven fans for high efficiency

Application

Commercial kitchens, furnace exhausts, welding areas, dust producing areas etc.

Technical Specifications - Wet Scrubber

CASING DETAIL	
FRAMEWORK	EXTRUDED ALUMINIUM CHANNELS WITH NYLON FITTINGS
CASING PANELS	25 MM THICK, INJECTED WITH CFC FREE PUF OF DENSITY 40 KG/CU.M
OUTER SHEET	0.6 MM THICK POWDER COATED GI
INNER SHEET	0.6 MM THICK PLAIN GI
BASE FRAME	16 GAUGE THICK GI CHANNELS WITH MS LIFTING CORNERS (GRID TYPE)
BLOWER SECTION DETAILS	
BLOWER	DIRECT / BELT DRIVEN CENTRIFUGAL BLOWER (ROSENBERG/NICOTRA/EQ)
MOTOR	TEFC TYPE 3PH/430V/50Hz ELECTRIC MOTOR (ABB/CROMPTON/EQUIVALENT)
MOUNTING	ANTI VIBRATION PADS FOR BLOWER AND MOTOR ASSEMBLY (WHEREVER REQUIRED)
CANVAS	FLEXIBLE CANVAS CONNECTION – FIRE AND MOISTURE RESISTANT (WHEREVER REQUIRED)
SCRUBBER SECTION DETAILS	
INLET SECTION	DUCTED INLET LOUVERS MADE OF HEAVY DUTY GI SHEET
SPRAY SECTION	DOUBLE BANK PVC CONICAL CLEANABLE NOZZLES WITH PVC WATER HEADERS
PUMP	SUITABLE MONOBLOCK PUMP WITH NECESSARY CONTROL AND BY-PASS VALVES
MIST ELIMINATOR	4 PASS PVC ELIMINATORS TO PREVENT WATER CARRY OVER TO FAN SECTION

Technical Specifications - Dry Scrubber (Electrostatic Precipitators)

CASING DETAIL	
FRAMEWORK	EXTRUDED ALUMINIUM CHANNELS WITH NYLON FITTINGS
CASING PANELS	25 MM THICK, INJECTED WITH CFC FREE PUF OF DENSITY 40 KG/CU.M
OUTER SHEET	0.6 MM THICK POWDER COATED GI
INNER SHEET	0.6 MM THICK PLAIN GI
BASE FRAME	16 GAUGE THICK GI CHANNELS WITH MS LIFTING CORNERS (GRID TYPE)
BLOWER SECTION DETAILS	
BLOWER	DIRECT / BELT DRIVEN CENTRIFUGAL BLOWER (ROSENBERG/NICOTRA/EQ)
MOTOR	TEFC TYPE 3PH/430V/50Hz ELECTRIC MOTOR (ABB/CROMPTON/EQUIVALENT)
MOUNTING	ANTI VIBRATION PADS FOR BLOWER AND MOTOR ASSEMBLY (WHEREVER REQUIRED)
CANVAS	FLEXIBLE CANVAS CONNECTION – FIRE AND MOISTURE RESISTANT (WHEREVER REQUIRED)
SCRUBBER SECTION DETAILS	
INLET FLANGE	GI FLANGE TO CONNECT EXHAUST AIR DUCT
GREASE FILTERS	WIREMESH TYPE FILTERS AT ESP INLET
ESP SECTION	ELECTROSTATIC PRECIPITATOR INCLUDING IONIZER SECTION+COLLECTOR SECTION+CONTROL PANEL

Air Washer



CASING DETAIL	
FRAMEWORK	EXTRUDED ALUMINIUM CHANNELS WITH NYLON FITTINGS
CASING PANELS	25 MM THICK, INJECTED WITH CFC FREE PUF OF DENSITY 40 KG/CU.M
OUTER SHEET	0.6 MM THICK POWDER COATED GI
INNER SHEET	0.6 MM THICK PLAIN GI
BASE FRAME	16 GAUGE THICK GI CHANNELS WITH MS LIFTING CORNERS (GRID TYPE)
BLOWER SECTION DETAILS	
FAN	BELT DRIVEN CENTRIFUGAL BLOWER DIDW TYPE (NICOTRA/EQUIVALENT)
MOTOR	TEFC TYPE 3PH/430V/50Hz ELECTRIC MOTOR (ABB/CROMPTON/EQUIVALENT)
MOUNTING	ANTI VIBRATION PADS FOR BLOWER AND MOTOR ASSEMBLY
CANVAS	FLEXIBLE CANVAS CONNECTION – FIRE AND MOISTURE RESISTANT
COOLING PAD SECTION DETAILS	
COOLING PAD	200 MM THICK IMPORTED CELLULOSE PAD HONEYCOMB TYPE
SUMP	SS304 FABRICATED SUMP WITH PLUMBING CONNECTIONS AND FLOAT VALVE
PUMP	SUITABLE 1PH/215V/50Hz RECIRCULATING PUMP (SUBMERSIBLE/MONOBLOCK AS PER CAPACITY)
FILTER SECTION DETAILS	
DUST FILTER	NON CORROSIVE ALUMINIUM MESH DUST FILTERS AT SUCTION AIR END

Axial Flow Fan

Capacity range 1000 CFM – 80000 CFM



AXIAL FAN					
FAN MODEL (A)	OD (C)	PCD (B)	NO. OF HOLES (n)	SLOT	L*
315	375	345	4	14X18	280
355	415	385	4	14X18	280
400	460	430	4	14X18	280
450	510	480	6	14X18	315
500	560	530	6	14X18	315
560	620	590	6	14X18	315
630	710	670	8	14X18	315
710	790	750	8	14X18	425
800	880	840	8	14X18	425
900	980	940	12	14X18	425
1000	1100	1050	12	14X18	560
1120	1220	1170	12	14X18	560
1200	1300	1250	12	14X18	675
1400	1500	1450	12	14X18	675

Motor

Motors for direct drive fans are foot mounted, IS 12615 standard, totally enclosed fan cooled (TEFC), continuous duty, ball bearing type with class 'F' Insulation and off cast iron construction fitted as standard. Class 'H' insulation motors can be provided for high temperature operation like Smoke spill application.

Impeller / HUB

Fully adjustable high performance Axial Impeller, blades and hub in Die Cast Aluminium. Multiple blade configuration available to get the optimum performance. All impellers are statically and dynamically balanced as per ISO 1940 and AMCA 204.

Casing

Cylindrical casing is made from heavy gauge, hot-rolled, steel construction and finished with epoxy or powder coating for a long life. Flanges on both the inlet and outlet are integrally rolled and punched for attachment to ductwork.

Operation Temperature

General Ventilation -20°C to 55°C
Smoke Exhaust 250°C / 300°C for 2 Hours

Cabinet Fans

Features

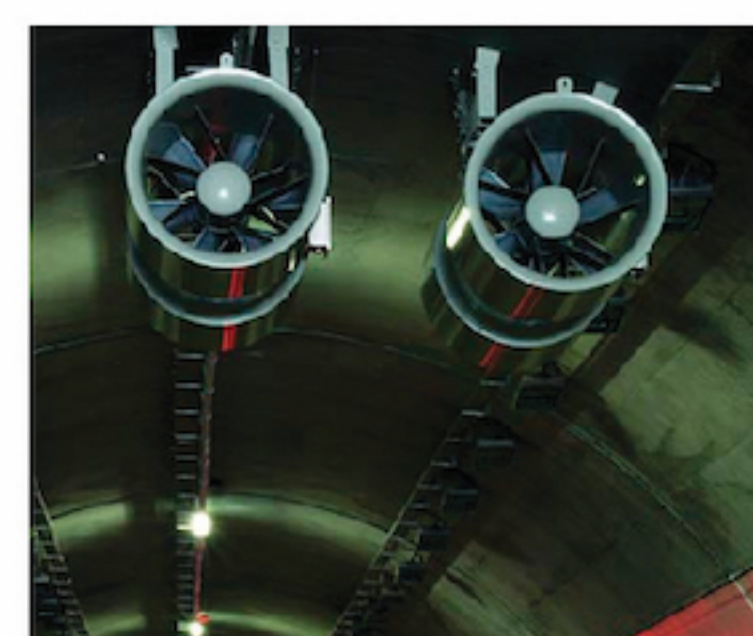
Cabinet is manufactured in galvanized sheet steel with a belt driven, high efficiency, DIDW forward curve, backward curve Centrifugal blower.
Motor and drive assembly can be accessed through removal of two side panels for maintenance purpose.
Provided with Vibration Isolators/Pad to assure long and trouble free life.
Provided with ABS plastic corner piece, aluminum column and galvanized sheet panel.
Complete with inlet & outlet flange as standard.
Acoustic lining is available upon request.
Available in both Horizontal & Vertical discharge orientation.



Jet Fans

Features

Compared to ducted ventilation system, jet fan ensure multiple benefit in terms of cost and efficiency associated with its design, installation & operation. Optimize the space due to compact size. Low sound level due to 2 D Silencer on both side of the fan. Low maintenance cost and saving of man hours. Due to Non-ducted system, pressure drop will be very low & that's why power requirement will be less, which will help in cost saving. For Smoke exhaust system, motor shall be Class H suitable for smoke exhaust temperature 250°C / 300°C – 2 hrs. , dual speed motors.



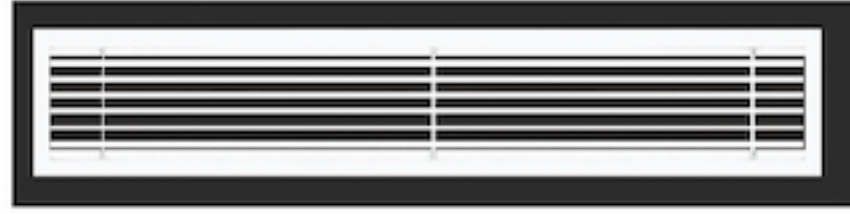
Inline Fans

Features

Capacity Range : 100 - 6000 CFM
For Kitchen & bathroom exhaust



Air Distribution Products



Fixed Bar Grill

Aluminium Extruded construction
Available in 19mm 30mm Flange
Powder coated finish
Zero/15 degree deflection
Continuclous and spot grill



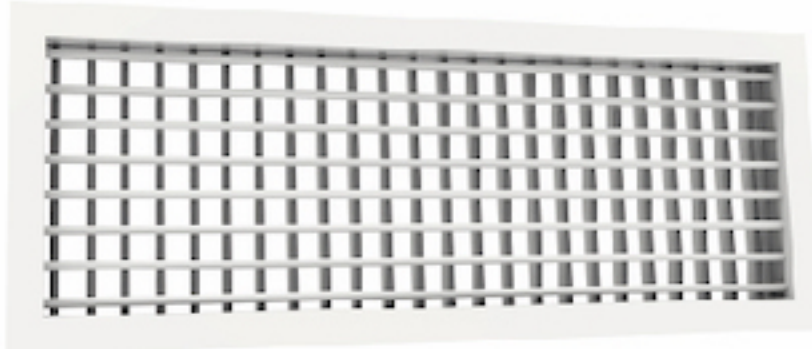
Aluminium Square Diffuser

All Aluminum construction
Available in V type and flush type Frames
Powder coated finish
4 way diffusion
Available for grid ceiling gypsum, open duct
Removable core for damper Adjustment



Soft Diffuser

Aluminum Extruded Construction
Multishade design for better aesthetics. Can be used for supply as well as return. Optional hit and miss damper. Aluminum Extruded Construction. Multishade design for better aesthetics



Double Deflection Grill

Aluminum Extruded construction
NIS Fabricated
Adjustable louvers
Powder coated finish



Motorised Fire Damper

Aluminum Extruded construction /
Galvanised Iron heavy gauge
Optional copper Fusible link
Actuator with control panel and heat sensor duly attached



Non Return Gravity Damper

Heavy Galvanised Iron Frame
Used for air conditioning,
Ventilation and exhaust
Operatable with the air velocity



Grill Damper

Milled Steel Construction
'L' Key Operated louvers
Finished with black paint
Used for air balancing



Eye Ball Diffuser

High Quality aluminium Construction
Powder coated finish
Mostly used for long throws
350 degree deflection
Ideal for High ceiling banquets, Airports, Auditoriums. Optional butterfly damper fitted with sleeves, Operatable from bottom
Available sizes : 200 / 275 / 315 / 400mm



Jet Diffuser

High Quality aluminum Construction
Adjustable angles with long throw
Powder coated finish
Ideal for banquets, Warehouse
Optional butterfly damper fitted with sleeves, Operatable from bottom
Available sizes
250mm, 315mm, 380mm



Few of our Clients



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SINCE 1953

ISO 9001:2015 Certified

SANT AIR SYSTEMS

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