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HUMIDIFICATION

Apex Humidification Engineers
Design and Mfrs of Humidification Plant Equip & Spares

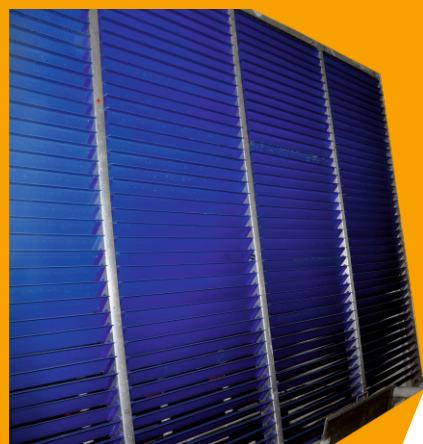
www.apexhumidification.com

AXIAL FLOW FANS



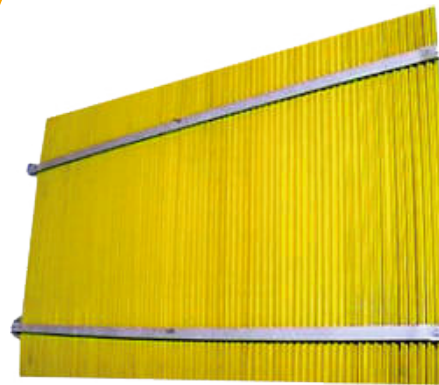
We are one of the few acclaimed names to offer axial fan through which the air flow parallel to the impeller axis. Our axial flow covers a wide range of quantities and pressure. It ranges from 600 mm dia to 1800 mm dia axial flow fans variable 4 blades to 8 blades. Impeller is made up of aluminium alloy along with aluminium blades. It is statically and dynamic balancing, Impeller is house in heavy duty casting made up of mild steel.

DISTRIBUTION LOUVERS



They are available in different shapes in extruded PVC and Humidification process is uniform CFM of air passing through the spray they are fixed with a set of aluminium fixtures with PVC guides can be quickly removed allowing an easy entry into the spray chamber.

MIST ELIMINATORS



They are available in different shapes in extruded PVC and offer low-pressure drop. The eliminators are fixed with aluminium notch angles with SS Grouting clamp and SS Tie rods.

AIR WASHER PIPE LINE



Air washer spray bank systems is made of heavy duty 'B' & 'C' class GI and UPVC pipes consisting of suction, delivery and header pipes, 40 & 80 schedule PVC raiser pipes and butterfly gate valves. The PVC non-clog nozzles are with stainless steel orifice of 6mm and stainless steel clamp to hold on the raiser pipes. The pipes are evenly distributed in turn to distribute nozzles to create a uniform mist.

AIR DAMPERS

Air dampers are provided at fresh air entry, hot air exist, and re-circulation and by pass locations. They are used for controlling the air flow in the required proportion. Aluminium extruded / galvanized aerofoil louvers are housed in heavy duty galvanized iron boxing powder coated with outer fixing frames made of mild steel. These dampers are used for automatic purpose.



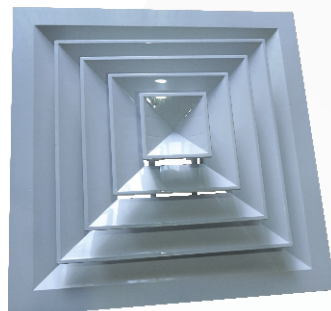
AIRTIGHT DOORS

Airtight powder coated door are made out of Galvanized iron sheet/ stainless steel sheet double skinned with glass wool to avoid the thermal radiation with aluminium door



SUPPLY AIR DIFFUSERS

They distribute the humidified air in the department at various locations. They are available in Mild Steel / Stainless Steel / PVC / Fibre / Aluminium single and double deflection type grill with duly powder coated.



'V' FILTERS



'V' shaped filter is made up of GI sheet and covers SS mesh 304 grade for dust filtration. This method of filtration through the cleaning should be manual and frequent

AUTOMATIC ROTARY AIR DISC FILTER

We modernized rotary air disc filter as compact and power savings. Its ranges from 6' to 9'6" dia. The salient features of rotary air disc filter are

1. Cleaning the filters automatically.
2. Maintain constant output of exhaust systems and uniform RH./Suction maintain inside the department.
3. Heat and fluff removal from the department is steady without fluctuation.
4. Improves the humidification performance inside department and reduces the flies thereby improving the yarn quality
5. Impeller efficiency normal.
6. The fluff is collected in an open type bag collector/compacting system.
7. A stainless steel mesh 304 grade covers disc filter for long life for dust filtration.



DUCTING



They carry the humidified air from the plant and a common masonry plenum and run generally above the false ceiling. They are available in GI / SS / Aluminium / Fibre and it generally supported from the roof purlins.



In the manufacturing process of textile yarns and fabrics, the importance of atmosphere control especially in respect to temperature and humidity can never be overlooked. In fact, Moisture Regain - the ratio of the Moisture to the bone-dry weight of the material expressed as a percentage - directly impacts properties like dimensions, weight, tensile strength, elastic recovery, electrical

resistance etc.,

So it is no surprise that Humidification is rapidly gaining importance in textile industries. And when you consider that high speed machines generate heat the need for humidification is all the more important.

That's where we, APEX HUMIDIFICATION ENGINEERS come in. Over the years reputation as the leading solution provider in the field of humidification.

We have more than experience in the field of humidification. In our carrier plan of experiences, our analytical thinking and expert knowledge and handled lots of projects all over India. We are leading our special projects division which works for clients to design and produce solution for humidification. We specialized in designing the project to suit with the exact requirement of our valued customers and eminent in drawing the project so as to cut the overheads of the textile mills in civil & engineering with respect to the requirement of providing moisture in the air in the mills.

We have renowned knowledge in the line of production, Research and Development, we could complete the projects in time from our production department. Our professional knowledge in research has facilitated in not only achieving our requirements of migrating to new technology but also to reduce our overheads. Thus we could offer our contract with our valued customers at attractive and competitive rates without compromising the quality in service and product. We co-ordinates our contractors and sub-contracts and completes projects in time. We also expert in trouble shooting and handled lot of projects. In the manufacturing process of textile yarns and fabrics, the importance of atmosphere control especially in respect to temperature and humidity can never be overlooked

That's where we, APEX HUMIDIFICATION ENGINEERS come in. Over the years reputation as the leading solution provider in the field of humidification.

We are committed not only to the design and development of humidification systems but to giving customers complete solutions through highly evolved service and support. We take up projects on turnkey basis from preliminary design through final engineering and fabrication to on-site installation, testing and commissioning.

Our customer base speaks for itself. Leading textile mills in India trusts us to deliver on the promise.

Striving to be the best humidification company

APEX HUMIDIFICATION ENGINEERS has delivered effective humidity control solutions all over India. In that time, we have worked in an extensive range of textile mills situations that benefit from humidification.

Our aim is always to deliver the right humidification solution. You can be sure of this thanks to our experienced, multi-lingual technical sales & service team, our dedicated in-house R&D department and our service & maintenance division, with its capacity to deal with any make of humidification plant.

Our services

Good service isn't just supplying the items at the right price. We go further to ensure our customers are supported from system design and product selection through to on-going maintenance and spares supply. We are very proud that it is this added value that sets APEX HUMIDIFICATION ENGINEERS from other humidification installation systems.

Research and Development - An in-house research and development department, with specialist testing facilities, keeps APEX HUMIDIFICATION ENGINEERS at the forefront of humidification technology. As well as refining products and developing new ones, our R&D department continually works with other leading humidifier manufacturers to further improve the products we offer our clients.

Assuring you of our best services always.



AUTOMATIC ROTARY AIR DRUM FILTER

A rotary air drum filter is preferred wherever a fine filtration of the micronics dusts particles and recirculation of the department. Its ranges from 6'dia to 10' dia long. The salient features of rotary air disc filter are

- It works at very low filtration velocity.
- Cleaning the filters automatically.
- Maintain constant output of exhaust systems and uniform R.H / Suction maintain inside the department.
- Heat and fluff removal from the department is steady without fluctuation.
- Improves the Humidification performance inside department and reduces the flies thereby improving the yarn quality.
- Impeller efficiency normal.
- The fluff collected in an open type bag collector / compacting system.
- Imported filter media cloth covers drum filter for dust filtration.

PRE FABRICATED HIGH INSULATED HUMIDIFICATION PLANT

- Eco Friendly.
- Flexibility.
- Shorter Construction Time .
- Saving in cost material, time manpower.
- Components produced at close supervision so quality are good.
- Possibility of alterations and reuse.
- Correct shape and dimensions and sharp edges are maintained.
- Can withstand heavy snowfall/rainfall .
- It can withstand extreme temperature from -50 degree Celsius to +120 degree Celsius.
- Having a thermal conductivity of 0.018 kcal prevents cross heat flow between room & outside ambience.
- No air or water can penetrate through the panels of the shelter.
- Sound and Fire Proof.



A P E X

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