



Creating Just the Right Atmosphere Always...

## AIR WASHER

Draft Air offers comprehensive range of Air Washers also known as evaporative cooling system / H (Humidification) Plant, which delivers the best individual solution for process and / or comfort requirements. Our engineering and R & D team focuses on optimization of energy consumption and have created complete Integrated Climate Control (ICC) solutions.

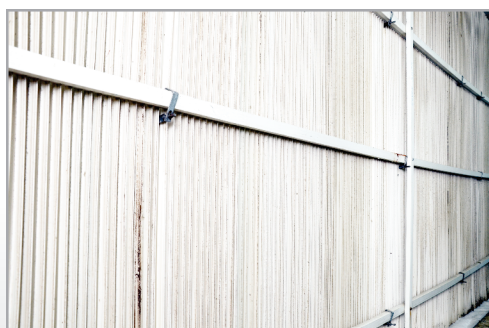
The systems are designed and developed considering all the heat sources in the conditioned area, and required humidity to be maintained constantly at desired levels. However, to control temperature during hot and humid weather, chilled water spray is required & during winter, heating may be necessary. Supply and return air system is designed considering concentration of heat load in the conditioned area to maintain uniform weather conditions as well to avoid hot zones.

Various Components of Air Washer offered by Draft-Air:

## INLET LOUVERS/ AIR STRAIGHTENER/ DISTRIBUTION PLATE

Aerofoil designed Louvers with very low-pressure drop offers uniform supply of air at the inlet of Spray Chamber. Draft Air louvers are made from HIPS material, which offers excellent strength with hot deep galvanized fixing frame. Access door to spray chamber is also provided in the louver screen.

Perforated galvanized sheet can also be provided as distribution plate depending upon the requirement.



## ELIMINATORS

Draft-Air PVC Mist Eliminator offers less resistance to the air flow while eliminating the water particles from the air passing through, thereby protecting the equipments placed after the spray chamber. Draft-Air eliminators are made up of virgin quality PVC for getting the required strength and life.

Eliminators can also be provided with Galvanized construction upon request with different configuration.



Creating Just the Right Atmosphere Always...

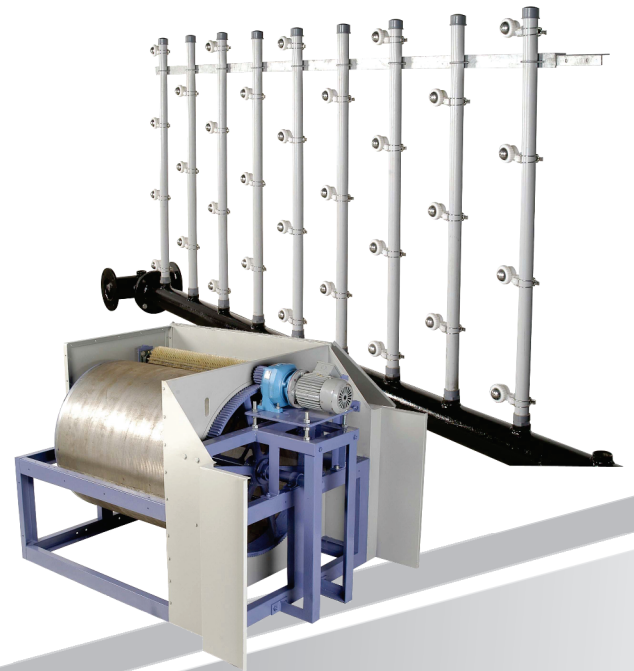
## SPRAY CHAMBER

The spray piping made is from :

- Corrosion free, low resistance, heavy duty rigid PVC stand pipes
- Heavy duty Galvanized/ SS/ PVC pipe as main header
- Spray nozzles with Stainless steel orifice and clamps for quick fixing

The Nozzles are specially arranged to ensure fine spray spectrum for highest evaporation efficiency. Spray nozzles are made of virgin quality PVC for strength and are designed for self-cleaning. This chamber can be provided with single or multiple banks to suit requirements. The spray chamber is also provided with backwash arrangement for cleaning the eliminators.

Hot deep galvanized frame with PVC/SS static water filters are provided as a standard, however Automatic Rotary water filter can also be provided as per requirement.



## CELLULOSE COOLING PADS

Cellulose pad / cell deck pads are one of the options in lieu of spray chamber. These pads are made from cellulose papers with flutes to enhance surface area for better evaporation requiring very little water re-circulation thus saving power. They are highly recommended for areas where humidity requirement is not very high say for a typical comfort application. Draft air offers a package type air washer with inlet louvers / coarse filter, cell deck pads with suitable water circulation system, stainless steel tank and single / multi pass eliminators all packaged in single / double skin housing.

Such unit offers very little maintenance and lower power consumption