

**AIR WASHER**

(Evaporative Cooling Machine)

Evaporative Cooling Machine utilize the natural process of water evaporation along with an air-moving system to create effective cooling. Outside ambient air is pulled through filters and it passes through the cellulose pads then it cool the air through water evaporation. A blower impeller circulates the cooled air throughout a department, industrial shed, hall etc. By a suitable ducting system. It is a adiabatic process and works on the principal of heat conversion (sensible to latent). Heat from the incoming air passing through a wet media is used to evaporate the water lowering the "dry bulb" temperature. Evaporative cooled air will follow the same line as the "wet bulb" temperature on psychrometric chart.

**Capacity Range:** 1000 to 80000 CFM

**CONSTRUCTIONAL FEATURES**

Features frame	: Extruded aluminum profile.
Base	: Heavy gauge base fame with cast Al corners
Casing	: 23 ± 2 mm thick, double skin panels made of 0.6 mm sheets with poly Urethane foam (PUF) of density 38 ± 2kg/cu.m injected between the two skins or single skin in 1.6 mm / 1.8 mm GI sheet.
Cooling pads	: Cellulose paper pad 200 mm thick
Filters	: Synthetic/metallic wire-mesh filters.
Blowers	: DIDW centrifugal blowers, common-rail base for blower-motor assembly on vibration isolation pads.
Motors	: TEFC type, three phase motors of standard make
Motor stand	: Adjustable motor -mounting fixture
Pulleys	: Adjustable taper-bush pulleys
Pumps	: Monoblock / submersible pumps of standard make
Sump	: SS 304 tank with socket connections for water in, overflow and drain complete with ball-cock valve etc.
Mist eliminator	: In PVC/ SS/ G.I.
Canvas connection	: Flexibles connection to isolate blower from unit body

**APPLICATIONS**

- Auto-mobile industries
- Auditoriums
- Banquets
- Poultry farms
- Packing halls
- Schools
- Residences
- Heat generation areas such as production floors
- Generator rooms
- Commercial kitchens etc.

