

Single Stage Air Washer



Eco-Cooling, High Efficiency & Low Energy.

Our Single Stage Air Washer is the ideal air handling solution for dry climates where cooling, humidity control, and energy savings are a priority. Designed with evaporative cooling technology, it delivers significant temperature reduction—up to 18–19°C—using 80% less electricity than conventional air conditioning. Constructed with corrosion-resistant materials and equipped with efficient filtration, this system ensures enhanced IAQ, low maintenance, and sustainable operation for commercial, industrial, and institutional spaces.

Features

- Evaporative cooling for temperature and humidity control in dry environments
- Up to 90% energy recovery efficiency, reduces cooling/heating load
- Made from corrosion-resistant materials like galvanized steel or SS
- Self-cleaning or easy access for periodic cleaning to ensure longevity
- Reduces temperature up to 18 to 19°C (Summer Condition)
- Uses up to 80% less electricity compared to conventional A/C
- Rust-free stainless steel tanks and high-quality evaporative cooling pads

Benefits

- Improved Indoor Air Quality (IAQ)
- Energy Savings
- Enhanced Humidity Control
- Low Maintenance
- Sustainability
- Cost-Effective
- Environmentally Safe

Product Technical Specifications - Product Range

1. Airflow Capacity:

- Ranges from 1,000 CFM to 100,000+ CFM

2. Filtration:

- Dual-stage filtration: Pre-filter (G4) and Fine filter (F7/F9)



3. Humidification Method:

- Evaporative cooling through water-saturated pads for humidification and cooling

4. Water Treatment:

- Optional UV or chemical treatment for water to prevent bacterial growth

5. Casing Material:

- Galvanized Steel or Stainless Steel (SS) for corrosion resistance



6. Water Tank:

- Built-in water tank with automatic water level control and overflow protection

Product Construction Details

1. Casing/Frame:

- Rigid, galvanized or powder-coated steel Stainless Steel, Aluminium
- Modular, double & single skin panel construction
- Extruded Aluminium Profile Frame Work (Thermal break & Non-Thermal break)

2. Insulation:

- 25 mm to 50 mm thick insulation (Density-40 kg/m³ (48 kg/m³, 64 kg/m³, 96 kg/m³ - Optional) (PUF, Glasswool, Rockwool, PIR)
- Provides thermal insulation and acoustic insulation

3. Base Frame:

- Heavy-duty steel or aluminum base
- Designed for floor mounting and vibration isolation

4. Panels:

- Removable or hinged access doors
- Inner skin: galvanized steel (pre-coated or powder coated), stainless steel, aluminium
- Outer skin: pre-coated, powder-coated steel, stainless steel, aluminium

5. Water Tank:

- Built-in water tank with an automatic water level control and overflow protection to maintain consistent operation.

6. Fan Section:

- EC or VFD-driven centrifugal fans
- Mounted on vibration-absorbing platforms
- Dynamically balanced for low-noise, high-efficiency airflow



7. Filter Section:

- Pre-filters in slide-in frames
- Fine filters, (HEPA filters, Carbon filters, Chemical Filters, Electronic Air Cleaner - optional)
- Easy access for replacement

8. Water Distribution System:

- Water spray nozzles & water distribution pads for uniform water distribution.

9. Media Pads:

- Cellulose pads for evaporative cooling, designed to maintain high surface area for maximum humidity absorption.

Product Certifications

1. ISO Certified : (ISO 9001:2015)

Applications



Healthcare Facilities



Retail & Malls



Entertainment Venues



Industrial & Manufacturing



Food & Beverage Industry



Hotels & Hospitality



Commercial Buildings



Laboratories



Educational Institutions

Our Presence



Sales & Support Offices

Ahmedabad | Bengaluru | Chennai | Delhi | Gurgaon | Hyderabad | Jaipur | Kanpur | Kolkata | Mumbai | Pune

Corporate Office

Gurugram

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Manufacturing Facilities

Bahadurgarh

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Bahadurgarh, Haryana -
124507
Phone: 01276-244650,
651/652/653/ 244568
/244961

Lahe

Plot No-343 & 343/1A,
Lahe Village, Mumbai-
Nashik Highway,
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Maharashtra.

Malur Unit-1

Plot No- 124-127, 3rd
Phase, KIADB Industrial
Area, Nosagere (Village),
Malur-Taluk, Kolar-
District, Karnatka-563130
Phone: 0815-1200087

Malur Unit-2

Plot no 246 to 247, 3rd
Phase, KIADB Industrial
Area, Kanachikkanahalli
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