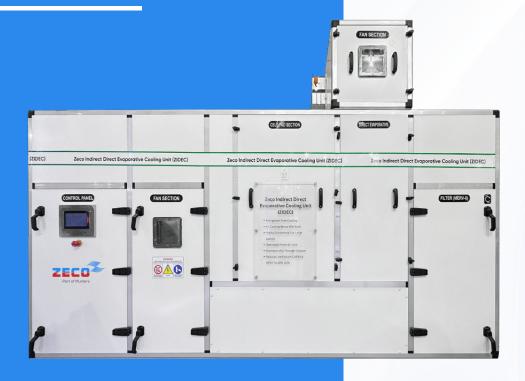


ZECO Indirect Direct Evaporative Cooling Unit (ZIDEC)



Breathe Fresh, Stay Cool - Naturally

ZECO Indirect Direct Evaporative Cooling Unit (ZIDEC) brings a sustainable, high-performance cooling solution designed for hot and dry climates. It delivers 100% fresh, filtered air with dual-stage cooling-ensuring greater comfort, energy savings, and environmentally conscious performance.

Features

- Dual-Stage Cooling
- Energy Efficiency
- Environmentally Friendly Uses no harmful refrigerants, making it a sustainable cooling
- solution.
- Delivers 100% fresh, cool air into the building, ideal for ventilation and comfort.
- High cooling efficiency and low operating costs, especially in hot and dry climates.

Benefits

- Energy Savings
- Environmentally Friendly
- Enhanced Comfort
- Cost-Effective
- Improved Air Quality
- Low Maintenance
- Ideal for Hot & Dry Climates
- Sustainable Performance

Product Technical Specifications - Product Range

1. Airflow Capacity:

Ranges from 1,000 CFM to 1,50,000 CFM

2. Cooling Method:

• Dual-stage cooling: Indirect evaporative (pre-cooling) and Direct evaporative (final cooling)

3. Energy Efficiency:

Up to 80% energy savings compared to traditional HVAC systems

4. Water Consumption

· Low water consumption, with efficient water management and automatic controls

5. Water Treatment

· Optional UV treatment or chemical treatment for clean water and hygiene

6. Filtration

G4 pre-filter and F7 fine filter for dust removal and air purification



Product Construction Details

1. Casing/Frame:

- · Rigid, galvanized or powder-coated steel Stainless Steel, Aluminum
- Modular, double & single skin panel construction
- Extruded Aluminum 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.

5. Fan Section:

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

6. Filter Section:

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

7. Water Distribution System:

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

8. Heat Exchanger:

• Polymer type heat exchanger.

9. Media Pads:

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

Applications



Healthcare Facilities



Entertainment Venues



Food & Beverage Industry



Commercial Buildings



Educational Institutions



Retail & Malls



Industrial & Manufacturing



Hotels & Hospitality



Laboratories

Our Presence



Sales & Support Offices

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

Corporate Office

Gurugram

DLF Corporate Greens, Tower No. - 4, 12th Floor, Southern Peripheral Road, Sec - 74A, Gurugram -122004, Haryana

Manufacturing Facilities

Haryana

O-1, O-5 and O-3/A, Old Industrial Area, Bahadurgarh-124507 Haryana, India

Maharashtra

343 & 343/1/A, Village Lahe, Mumbai-Nashik Highway, Taluka Shahpur, Thane - 421603

Karnataka

Plot no. 124 to 127, 3rd Phase, KIADB Industrial Area, Malur, Distt: Kolar, Karnataka - 563130

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