

Zeco Environmental Unit (ZEN)



"Revolutionizing Air Quality for a Greener Tomorrow"

Introducing ZEN – Zeco Environmental Unit, a cutting-edge HVAC solution engineered to deliver exceptional indoor air quality while meeting sustainability and regulatory standards. Designed for critical applications across industries, ZEN combines advanced filtration, thermal treatment, and smart controls to tackle modern environmental challenges head-on. It's more than a machine – it's your commitment to a cleaner, healthier future.

Features

- Auto Viscous Filter System
- Self-cleaning mechanism: The filter automatically removes trapped dust using a viscous (sticky) medium and rotating brush or roller.
- Extended filter life: Reduces the need for frequent manual replacement.
- Low maintenance: Minimizes downtime and manual intervention.
- Efficient Air Filtration

Benefits

- Saves high amount of water.
- Neutralize PM, NOx & CO2.
- Multiple applications (Industrial & Commercial).
- Reduce energy consumption.
- Longer lifespan.
- Complies guidelines from CPCB & NFPA.
- Sustainability solutions for pollution control.
- Control water pollution

Product Technical Specifications – Product Range

1. Airflow Capacity:

- Typically ranges from 1,000 CFM to 60,000+ CFM (customizable per requirement)

2. Filtration Levels:

- Auto Viscous Filter, PCB Filter Fine Filter

3. Dampers:

- Manually Operated All Damper In Aluminum.



4. Smart Electrical Control Panel



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. Fan Section:

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

6. Filters:

- Auto Viscous Filter, Pre-Filter, Fine-Filter

6. Heat Exchanger:

- Polymer Heat Exchanger

Product Certifications

1. CE Certified : (EN ISO 12100:2010, EN 60204-1:2018)
2. ISO Certified : (ISO 9001:2015)

Applications



Oil & Gas



Pharmaceuticals



Turbo Machinery



Power Plants



Steel Plants



Coal Mining



Petro-Chemical



Foundry



Cement Plant

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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