

ZECO Outdoor Air System (ZOAS)



Pure Outdoor Air, Perfected for Indoors.

ZOAS – ZECO Outdoor Air System ensures that your building breathes fresh, clean, and conditioned outdoor air—Independently from the recirculated air system. Engineered to meet the growing demand for indoor air quality, humidity control, and energy-efficient ventilation, ZOAS is your ideal solution for healthy, sustainable, and compliant building.

Features

- Supplies only treated outdoor air, enhancing indoor air quality (IAQ).
- Integrated Dehumidification
- Energy Recovery Options
- Advanced Filtration
- Humidity & Temperature Control

Benefits

- Improved Indoor Air Quality
- Effective Humidity Control
- Energy Efficiency
- Lower Operating Costs
- Compliance & Sustainability

Product Technical Specifications – Product Range

1. Airflow Capacity:

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

2. Fresh Air Supply:

- 100% outdoor air intake, filtered and conditioned

3. Cooling Coil:

- DX or Chilled Water Coil for cooling and dehumidification



4. Heating Coil:

- Electric / Hot Water / Steam Coil
(optional, for preheating or reheat)

5. Energy Recovery:

- Heat Recovery Wheel, Plate Heat Exchanger, or Runaround Coil options

6. Filtration Levels:

- G4 (Pre-filter), F7/F9 (Fine filter), optional HEPA filter



7. Humidity Control

- Integrated dehumidifier or cooling coil control for RH optimization.

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. Drain Pan:

- Sloped stainless steel design
- Anti-corrosive and insulated to prevent condensation buildup

6. Fan Section:

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

7. Coil Section:

- Copper tubes with aluminum fins
- Housed in corrosion-resistant frames with drain connections
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- Housed in corrosion-resistant frames with drain connections
- Energy Recovery Module:
- Integrated Heat Recovery Wheel or Plate Heat Exchanger made from aluminum or epoxy-coated materials for corrosion resistance.

8. Filter Section:

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

Product Certifications

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

Applications



Healthcare / Hospitals



Food & Beverage Industry



Commercial Buildings



Educational Institutions



Retail & Shopping Malls



IT & Data Centers



Industrial Facilities



Airports & Transit Hubs

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
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Karnataka - 563130

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