

Exhaust Air Unit



“Engineered Ventilation for Healthier Spaces”

Breathe cleaner and smarter with Zeco’s Exhaust Air Unit – a high-efficiency solution crafted to expel stale air, reduce indoor contaminants, and support energy-conscious buildings. Designed for optimal air exchange in both commercial and industrial applications, it ensures healthier, safer, and more sustainable indoor environments.

Features

- **Efficient Exhaust Air Handling**
Specifically engineered to remove stale, contaminated, or warm air from indoor spaces, ensuring proper ventilation and air exchange.
- **Integrated Multi-Level Filtration**
Comes with a combination of Pre-filters (G4) and optional Fine (F7/F9) or carbon filters to effectively trap dust, odors, and fine particulates.
- **Customizable Airflow Range**
Offers airflow capacities ranging from 1,000 CFM to over 60,000 CFM, adaptable for both small- and large-scale facilities.
- **Robust Modular Construction**
Double or single-skin panels, galvanized or powder-coated steel, and extruded aluminum framework ensure strength, longevity, and design flexibility.
- **Advanced Fan Technology**
Features EC or VFD-driven centrifugal fans mounted on vibration-dampening platforms for quieter, more energy-efficient performance.
- **High-Performance Insulation**
Thermal and acoustic insulation with materials like PUF, Glasswool, or Rockwool helps maintain internal conditions and reduce noise pollution.

Benefits

- **Enhanced Indoor Air Quality (IAQ)**
Effectively removes contaminants and odors, promoting a healthier indoor environment for occupants across all sectors.
- **Supports Health & Hygiene Standards**
Especially beneficial in sensitive environments like hospitals, pharma cleanrooms, and schools where air purity is critical.
- **Energy-Efficient Operation**
Smart fan control and thermally efficient casing reduce energy consumption, supporting long-term operational savings.
- **Environmentally Sustainable**
Designed to comply with global green building and HVAC standards, contributing to a reduced carbon footprint.
- **Low Maintenance & Long Service Life**
Durable build, high-quality filters, and easy-access panels lead to fewer breakdowns and reduced service interruptions.
- **Versatile Across Industries**
Suitable for a wide range of applications—from commercial offices and retail malls to laboratories and industrial facilities.

Product Construction Details

1. Airflow Capacity:

- Typically from 1000 CFM to 60,000+ CFM, based on project needs

2. Filter Options:

- Pre-filter (G4), optional Fine filter (F7/F9) or carbon filters for odor removal



Product Construction Details

1. Casing Structure

- 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, aluminum
- Outer skin: pre-coated, powder-coated steel, stainless steel, aluminum

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-filter (G4), optional Fine filter (F7/F9) or carbon filters for odor removal.

Product Certifications

1. Eurovent Certified : (Standard EN 13053 & EN 1886)

- Casing strength class : D1
- Casing air leakage class at -400 Pa : L1
- Casing air leakage at +700 Pa : L1
- Filter bypass leakage class : F9
- Thermal transmittance class : T2
- Thermal bridging factor class : TB2



2. AHRI Certified : Standard 1350

- Casing Deflection Rating Class (Positive) : CD4
- Casing Deflection Rating Class (Negative) : CD4
- Casing Air Leakage Class (Positive) : CL2
- Casing Air Leakage Class (Negative) : CL2
- Thermal Transmittance Class With Leakage : CT2
- Thermal Transmittance Class Without Leakage : CT2
- Thermal Bridging Class : CB2



3. CE Certified : (EN ISO 12100:2010, EN 60204-1:2018)

4. ISO Certified : (ISO 9001:2015)

5. AHRI Certified Chilled Water Coils : AHRI Standard 410

6. AHRI Certified Hot Water Coils : AHRI Standard 410

Applications



Healthcare / Hospitals



Pharmaceuticals



Educational Institutes



Industrial Facilities



Residential Complexes



Retail & Shopping Malls



Healthcare & Hospitals

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

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3rd Phase, KIADB Industrial
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Karnataka - 563130

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