

Dry Scrubber (Kitchen Exhaust Unit)



“Clean Air, Zero Water Waste – The Smart Kitchen Exhaust Solution”

Introducing Zeco’s Dry Scrubber Unit – an efficient air pollution control solution designed to remove gases, particulates, and odors from kitchen and industrial exhausts without using water. Engineered for environments where moisture use is impractical, it delivers optimal air purification with low maintenance and superior energy efficiency.

Features

- **Dry Filtration Media**
Eliminates the need for water, making it ideal for environments with limited water access or where moisture is undesirable.
- **Multi-Stage Filtration System**
Includes G4 pre-filter, Electrostatic Precipitator (ESP), and an optional carbon filter for maximum contaminant and odor removal.
- **Chemical Pollutant Removal**
Effectively removes acidic gases, volatile organic compounds (VOCs), and sulfur-based pollutants from exhaust air.
- **Modular & Scalable Design**
Configurable based on air volume needs (from 1,000 to 60,000+ CFM); suitable for both small and large-scale operations.
- **Advanced Construction Materials**
Built using galvanized steel, stainless steel, or aluminum with thermal and acoustic insulation for robust, long-lasting performance.
- **Efficient Fan Systems**
Equipped with EC or VFD-controlled centrifugal fans that offer quiet, energy-efficient airflow.

Benefits

- **Efficient Gas & Odor Removal**
Significantly improves indoor air quality by eliminating smoke, grease vapors, and chemical odors.
- **Zero Water Usage**
Reduces water dependency, making it sustainable and cost-effective for operations sensitive to water usage.
- **Low Maintenance**
Dry systems minimize clogging and water-related issues, requiring less frequent service and fewer consumables.
- **Energy Efficient Operation**
Optimized fan performance and sealed construction reduce power consumption and operational costs.
- **Customizable Filtration**
Offers flexibility to add or modify filter combinations based on pollutant type and concentration.
- **Environmentally Friendly**
Uses sustainable construction, avoids chemical runoff, and supports green building initiatives with CE and ISO certifications.

Product Construction Details

1. Airflow Capacity:

- 1,000 to 60,000+ CFM (Customizable)

2. Filter Configuration:

- G4 Pre-filter
- Electrostatic Precipitator
- Optional Carbon Filter

3. Fan Type:

- EC or VFD-driven centrifugal fans (low noise, high efficiency)

4. Insulation:

- Thickness: 25–50 mm
- Density Options: 40–96 kg/m³
- Material: PUF, Glasswool, Rockwool, PIR

5. Construction:

- Single/Double Skin Panels
- Extruded Aluminium Framework
- Hinged or Removable Access Doors

6. Casing:

- Stainless steel, powder-coated steel, or aluminum (inner & outer skins)

7. Mounting:

- Floor-mounted base frame with vibration isolation

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) for dust removal
- Electrostatic Precipitator
- Carbon Filter (Optional)

Product Certifications

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

Applications



Chemical Processing



Pharmaceuticals



Wastewater Treatment



Commercial Buildings



Food & Beverage



Oil & Gas

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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