

Ceiling Suspended AHU



Designed for efficiency in compact spaces, ZECO's Ceiling Suspended AHU offers powerful air handling performance without occupying valuable floor area. Engineered with premium components, this unit ensures clean, conditioned air with whisper-quiet operation, ideal for modern commercial and industrial environments where space and air quality are both critical.

Features

- Compact & Lightweight Design
- 100 % Fresh Air Intake
- Efficient Fans
- High-Performance Filters
- Cooling/Heating Coils
- Stainless steel insulated sloped drain pan
- Low Noise Operation

Benefits

- Improved Indoor Air Quality
- Space-Saving Design
- Energy Efficiency
- Quiet Operation
- Customizable Airflow & Capacity
- Easy Maintenance
- Prevents Humidity & Mold Growth

Product Technical Specifications – Product Range

1. Airflow Capacity:

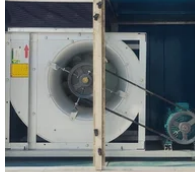
- 1,000 – 10,000 CFM

2. Casing Construction:

- Double & Single skin panels
- Galvanized/powder-coated steel, Stainless Steel, Aluminium
- 25 mm to 50 mm thick insulation (PUF, Glasswool, Rockwool, PIR)
- Extruded Aluminium Profile Frame Work (Thermal break & Non-Thermal break)

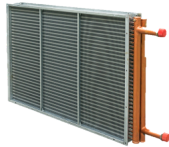
3. Fans:

- Forward & Backward curved centrifugal fans
- Backward Curved SISW Plenum Fans
- EC Fans
- EC or AC motor options
- Variable speed drive (VSD) compatible



4. Coils

- Chilled water / hot water / DX (direct expansion)
- Copper tubes with aluminum fins
- Multiple row configurations available



5. Filters:

- Pre-filters: G4 / MERV 8
- Optional: Fine filters, HEPA, carbon filters, Chemical Filters



6. Drain Pan:

- Single Skin & Double Skin Insulated, stainless steel
- Sloped for efficient drainage

7. Access Panels:

- Hinged or removable
- For fan, filter, and coil access

8. Electrical Supply:

- Typically 230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz
- Custom options available

8. Mounting

- Ceiling-suspended with threaded rod hangers or mounting brackets
- Vibration isolators included for smooth operation

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:

- Mounted on anti-vibration mounts
- Direct drive or belt-driven centrifugal fans

7. Coil Section:

- Copper tubes with aluminum fins
- Housed in corrosion-resistant frames with drain connections

8. Filter Section:

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

9. Electrical Compartment:

- Separate, sealed section for controls and wiring
- BMS-compatible connections and safety interlocks

7. Access and Serviceability

- Quick-release panels
- Clear labeling and layout for easy maintenance

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



Pharmaceutical & Biotech



Food & Beverage Industry



Commercial Buildings



Educational Institutions



Retail & Malls



Data Centers & Server Rooms



Industrial & Manufacturing



Hotels & Hospitality

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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