

Floor Mounted Vertical AHU



Efficient Air Handling in Compact Spaces

The Floor Mounted Vertical AHU is designed for installations where space is limited and high performance is a must. With its vertical configuration, this air handling unit offers exceptional airflow capacity (from 1,000 to 20,000+ CFM) and delivers optimal performance for commercial, industrial, and healthcare applications. Its customizable features, energy efficiency, and ease of maintenance make it the ideal solution for demanding environments.

Features

- Wide Capacity Range (typically from 1,000 CFM to 20,000+ CFM)
- Vertical Configuration for narrow spaces & suitable for upward or downward airflow
- Double & single Skin Construction
- Efficient Fans
- Cooling/Heating Coils
- High-Quality Filters
- Robust Base Frame

Benefits

- Space Efficiency, suitable for limited horizontal space
- Improved Air Distribution Supports upward or downward airflow for optimized ventilation in multi-floor or zoned environments.
- Enhanced Indoor Air Quality
- Energy Savings
- Quiet Operation
- Ease of Maintenance
- Customizable Configurations

Product Technical Specifications - Product Range

1. Airflow Capacity:

- 1,000 – 20,000+ 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

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,
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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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