



Avantec Smart Air Management Solutions
- Engineered to Perfection

About Us

Avantec manufactures wide range of technologically nuanced HVAC equipments. Our state-of-the-art facility equipped with latest Fibre laser, CNC machinery and software specializes in manufacturing customized Air Handling and Ventilation Systems.

The range of high-performance products are made with high precision detailed to last point, ensuring best in class quality, robustness and efficiency. Always abreast with latest engineering trends & industry needs. Avantec provides customized solutions tailored to meet specific customer needs.

We “**CARE**”...

Customized | **Applied** | **Reliable** | **Efficient**
engineering solutions delivering best Indoor Air Quality



Product Range

- Smart Air Handling Units
- Air Handling Units (Horizontal / Vertical)
- Ceiling Suspended Units
- Fan Coil Units (PSC / BLDC Motor)
- Air Washers (Single / Multi-Stage)
- Air Scrubbers (Wet / Dry type)
- Ventilation & Exhaust Units
- Energy Recovery Units

Air Handling Units

Customized Engineering | Delivering Excellence

Avantec's Air Handling Units are designed for best mechanical performance, equipped with AMCA certified fans for superior performance and EN1822/ ISO16890/ UL certified filters for high dust holding capacity and low air pressure drop.

The units are available in wide range of capacity, best leakage class and world class quality suitable for various Industrial, Cleanroom, Building and Comfort applications.

VALUE ADDED FEATURES :

- Wide Airflow Range from 600 ~ 1,00,000 CFM / 1000 ~ 1,70,000 CMH
- Suitable for medium & high air pressure systems
- Customized AHU Sizing
- Single and Double Tier arrangement
- Robust Construction Module
- Best Leakage Class
- High resistance against corrosion using Pre-Coated sheets
- Food grade D-gasket for leak proofing
- Low Height Ceiling Suspended Units/Vertical Unit
- Suitable for Indoor & Outdoor Applications
- AMCA Certified Fans for Air Performance & Sound
- Smart AHU (Σ) IoT Integrated
- Shortest Lead Time

Casing Construction

- Outer Skin : Pre-coated Galvanized / SS | Inner Skin : Galvanized (Optional : Aluzinc, SS, Aluminium) available in varying sheet thickness.
- Panel Thickness: 25 mm / 50 mm thick sandwich panel insulated with PUF / PIR / Mineral wool.
- Framework: Airtight & robust extruded aluminium hollow profile with thermal break or standard Aluminium profiles ensuring excellent thermal & sound insulation and minimize condensation (Thermal Bridging).

Filters

- MERV 6(EU3) to MERV15 (F9) available in Panel & Bag type construction
- Semi-HEPA /HEPA Filters
- Chemical Filters
- ESP (Electro-Static Precipitator) Filters

Heat Transfer Coil Section

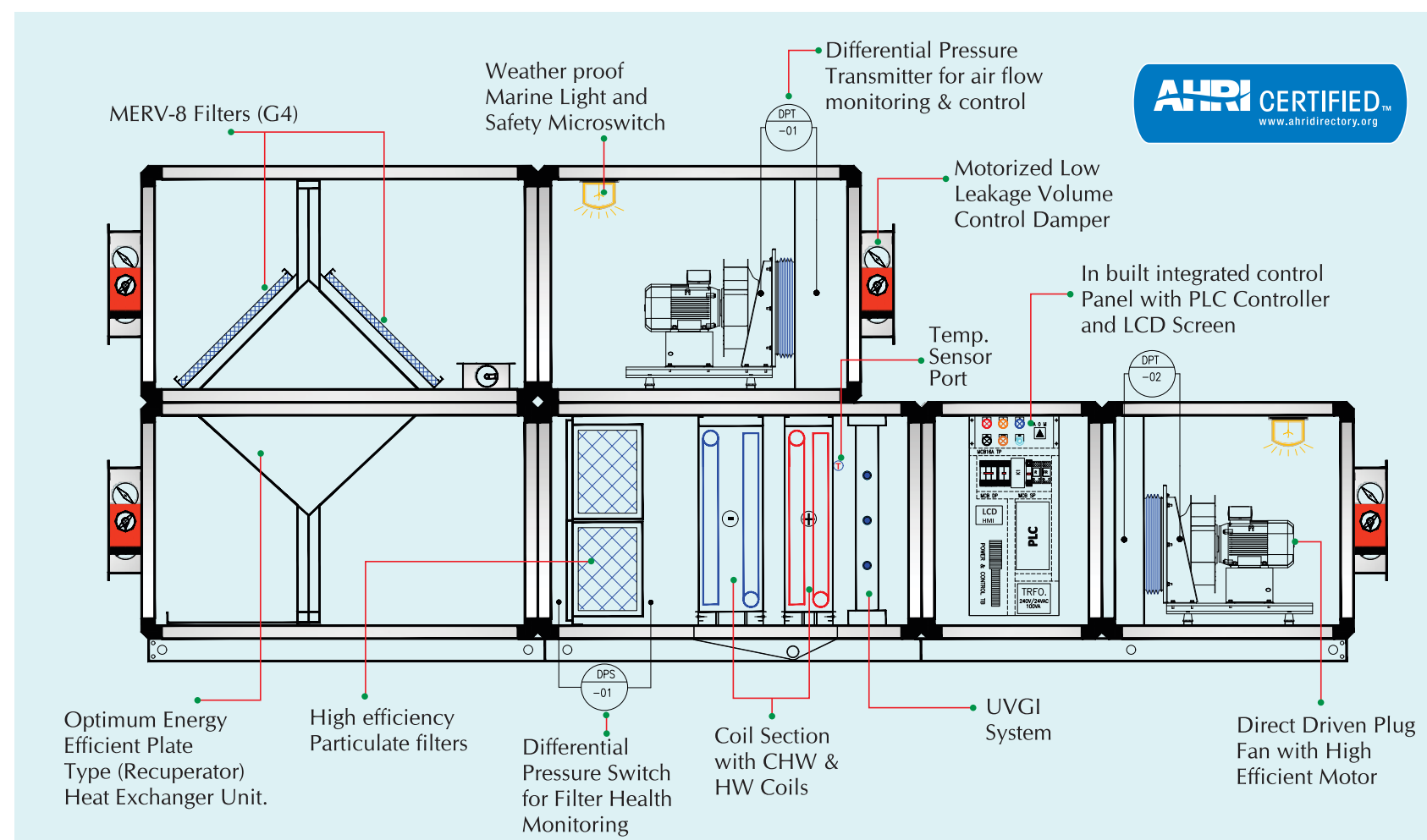
- Block of copper tubes with another block of aluminium fins creating expanded heat exchange surface
Copper tubes are bonded to collectors (Al fins), equipped with MS/ Copper header
- CHW/ DX/ HW/ Brine/ Steam/ SS coil with stainless steel fins & tubes
- Fins of different coating – Hydrophilic
- Normal and HIGH ΔT Coils

Humidifier Section

- Humidifier process based on water adiabatic evaporation from humidification pads
- Spray type humidifier
- Multi-Stage Direct / Indirect Evaporative Cooling
- Wet scrubber

Heat Recovery Section

- Rotary type energy recovery wheel transfers accumulated sensible & latent energy from exhaust air to supply air flow. Energy recovery up to 85% on sensible and latent load
- Plate Type Heat Exchanger - Indirect sensible recovery (only sensible heat) transfers sensible heat from exhaust to supply air flow
- Run-around Coil System - 100% contamination free system prohibiting exhaust air to mix with supply air while transferring sensible energy from exhaust air stream to supply air stream
- Refrigerant based Heat Pipe Section



Blower Section

- AMCA Certified Blowers
- Types of Fan :
 - EC Plus
 - EC
 - Direct Driven Plug Fan
 - Direct/Belt Driven DIDW Forward/ Backward Curved Centrifugal Fan
- VFD compatible motors with IE2/IE3 and Permanent magnet motors with IE4 efficiency.

SMART AHU(Σ) IoT Integrated :

- BMS compatible on MODBUS / BacNet
- In-room Air Temperature and Air Flow Control
- CO₂ Level Monitoring & Control for better IAQ
- Continuous Monitoring of Filter Pressure Drop
- Fan Run Status Monitoring
- Remote Visualization/Monitoring of Product
- Time Schedule Function - Weekly /Monthly Operation Mode Programming

Testing Facility

In house testing facility to demonstrate

- Air Capacity
- Air Leakage
- Static Pressure Drop
- Sound
- Vibration at base

Test simulation can be conducted at our facility to validate the equipment actual performance on above parameters

Application Expertise

Industrial Segments :

- Pharmaceuticals & Biotech
- Solar Cell / Photovoltaic
- Electronics & Semicon Fabs
- Food & FMCG
- Tyre / Automobile & Ancillaries
- Li-Ion Cell/ Battery
- Warehouse / Cold-rooms
- Data Centres



Building Segments :

- Residential & Commercial Spaces
- Mixed Used Buildings
- Institutional – Schools/Universities
- Hospitals & Healthcare
- Infrastructure - Transport /
Metro Rail / Airports



AVANTEC AIRCON PVT. LTD.

Works : Khewat No. 353, Khatoni No. 368, Killa No. 13/7/1 (5-0), 8/1 (6-18),
Village Tandaheri, Bahadurgarh-124507 Haryana

Sales Office : BF-77, Janakpuri, New Delhi-110058 | Ph: 011-45650714

Regional Sales Offices :

Mumbai

Office No. 301 & 302, Spaces 912,
Commercial Complex,
Near Pleasant Park Signal,
Mira Road East,
Thane-401107

Bengaluru

4C-303, 4th Floor, 3rd Block,
HRBR Layout CMR Road,
Opp. Jal Vayu Vihar,
North Gate Kalyan Nagar,
Bengaluru-560043

Ahmedabad

A 402 Mondeal Heights,
Near ISKON Cross Roads,
Besides Novotel Hotel,
SG Highway,
Ahmedabad-380015



Web : www.avantec.co.in | **Email :** sales@avantec.co.in