



World-class Solutions in
Clean Room Equipments, Filters, Coils & AHU's

AIR HANDLING UNIT (AHU)



AHU is an assembly of air conditioning components (such as fans, cooling coils, filters, humidifiers and dampers etc.) integrated into a self-contained package and installed as a single unit, which is connected to system of metal duct work, that distributes the conditioned air. It is used to re-condition and circulate air as part of a heating, ventilating and air-conditioning system.

The basic functions of the AHU are take in outside air, re-condition it and supply it as fresh air. The AHU is a large metal box containing separate ventilators for supply and exhaust, heating coil, cooling coil, heating/cooling recovery system, air filter racks or chambers, sound attenuators, mixing chamber, and dampers.

TYPES OF AHU :

- DOUBLE SKIN
- FLOOR MOUNTED
- CEILING SUSPENDED .

SPECIFICATIONS OF AHU FOR PROCESS AIR :

- Air outlet temperature – up to 140 °C
- Air outlet dew point – up to 6 °C
- Heating Media – Steam Heater/Thermic Fluid Heater/Electric Heater/Hot Water.
- Cooling Media – Chilled Water Coil/ Direct Expansion Coil/Brine Coil.
- Humidification – Increase humidity level up to 90% RH.
- Panel Construction – Puff filled panel for better thermal insulation/ Rockwool panel for FLP construction

The entire system can be designed and supplied with Control Panel to achieve design parameters.

HVAC AHU APPLICATIONS :

- Hospitals
- Universities
- Laboratories
- Retail
- Hotels
- Data centres

- Clean rooms
- Server rooms
- Office ventilation
- General Ventilation
- Pharmaceutical Industry
- Chemical Industry
- Food Industry

PROCESS AHU APPLICATIONS :

- Fluid Bed Dryer
- Coating Machine
- Tray Dryer
- Pharmaceutical Industry in Formulation, API & Parenteral Drugs

FEATURES :

- Cost efficient
- Low power consuming
- Reliable and efficient
- Long lasting material quality
- Compact, space saving with single /multi centrifugal fan.
- Low maintenance.
- Tough and strong.
- Specially treated for low noise and vibration free operation.
- Rust-free longer shelf life.
- High quality galvanized steel (powder coated) removal panels.