## JYOTI ELECTRO TECH

**HVAC Business Group** 

# **AIR HANDLING UNIT**



#### JET Modular air Handling Unit

JET AHUs are backed with design, manufacturing and project execution capabilities of more than 5 Years. These are compact modular units, which enable customized design to meet your needs of varying air volumes and static pressures.

The construction provides a great amount of flexibility to meet any kind of space constraints using horizontal, vertical or two tier designs.

#### Salient Features:

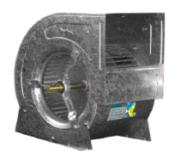
- Capable of delivering 3400 CMH up to 60000 CMH
- Can cater to Static pressures from 400 Pa to 1500 Pa
- Available in Double Skin and Single Skin options
- Range covers Horizontal, Vertical & Ceiling suspended type
- Suitable for installation in shopping arcades, offices, restaurants, hotels, schools, multiplexes, theatres, control rooms and a variety of other comfort and industrial applications
- Suitable for Cooling, Heating, Humidification and Clean room applications
- Software assisted selection ensures optimum design



Vertical AHU



#### CONSTRUCTION FEATURES



#### Fan

- Energy efficient, AMCA certified fans, forward / backward curved. Plug fans are optional
- Electric motor of TEFC type with IP55 and Class F insulation
- Fan & Motor are mounted on a common extruded aluminum channel using anti vibration mountings for silent and vibration free operation
- Electrical interlock trips the fan immediately on opening of AHU door to ensure absolute safe operation

#### Coil

- Optimum Chilled water, DX or Heating coil selection through software assisted program
- State of the art coil manufacturing facility ensures best quality
- Free flow Aluminum fin configuration provides excellent heat transfer capability with low airside pressure drop
- Copper tubes mechanically expanded on to the above fins ensure efficient heat transfer
- Flexibility in terms of number of rows and circuitry to meet supply air conditions
- Copper fins, anti-corrosive coating on fins and SS end sheets are available as options

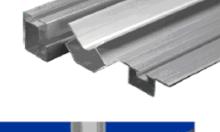
#### Condensate Drain Pan

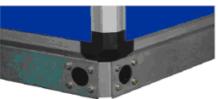
- Drain pan made of corrosion resistant Stainless steel of grade SS 304 as a standard feature
- Wider collection area with dual slope ensures quick drainage of condensate, prevents microbial growth and hence maintains Indoor Air Quality
- Drain pan is insulated with closed cell elastomeric insulation to avoid surface condensation
- Ultra violet lamps are available as an option to kill fungus and molds, minimizing allergens and allergy causing irritants



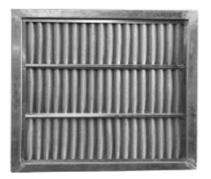
#### Framework & Panels

- Rigid framework made of hollow, anodized, and extruded aluminum profile held together by fiberglass corner joints
- The extruded aluminum profiles are inside coved, as a standard feature to provide smooth edges
- Double skin sandwiched panels with inner skin of 24G (0.6mm) galvanized sheet conforming to IS277.
  Out side panel of 24G (0.6mm) is made of pre-painted galvanized sheet
- Panels are pressure injected with PUF insulation using a CFC free R-141b blowing agent
- High and uniform PUF density of 40 Kg/ m3 provides better thermal insulation and sound attenuation
- Double skin panel of 25mm or 46 mm depending upon requirement can be provided
- Thermal break profiles are available as an option
- EPDM foam gaskets on aluminum frame provide superior sealing effect to avoid casing leakages
- A leak proof casing ensures Indoor Air Quality by preventing contaminated air to enter into the system
- Base frame is rugged in construction, made of galvanized steel with intermediate cross members and has lifting holes for ease of installation









- A complete line of filters are available to meet all kinds of filtration needs
- Single or Multi stage filtration to suit different applications conforming to ASHRAE & EUROVENT (EU-4 of EU-779 specifications) standards
- Separate pre- filter, fine and HEPA filter sections provided
- The filters are arranged in a grid in heavy-duty specially designed galvanized sheet steel frame to avoid air bypass and are removable from front
- Pre filters are of flange type provided with handles for easy removal & are washable
- Fine & HEPA filter sections are provided with access door panel with positive locking. The door is provided with aluminum die cast powder coated heavy duty hinges & nylon handles

#### Accessories: Standard

- Hinged service door: For ease of access to the fan and motor
- Marine lamp: For better visibility during servicing
- View port : Provided for inspection during AHU operation
- Door limit switches: Automatically trips the motor to ensure safety

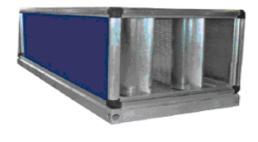
 GI / powder coated, opposed blade volume control dampers for air balancing



### Accessories: Optional

- Mixing box section for efficient mixing of return and fresh air intake
- Steam and spray humidifier section integral with the unit
- Face and by pass dampers of opposed blade type
- Cross flow type and wheel type heat recovery sections can be provided for energy saving
- 2 pass GI / PVC or 4 pass GI / PVC Droplet eliminator sections can be provided to prevent spray water carryover into fan section
- Sound attenuation section with sound absorbing walls and sound traps in the fan and discharge areas to meet critical sound level requirements





office:- 7,Tribhuvan complex near kalyan ene. mansa gandhinagar gujrat 382845 india - ph. - 9898220485

E - Mail - hvacsystemshreem@gmail.com