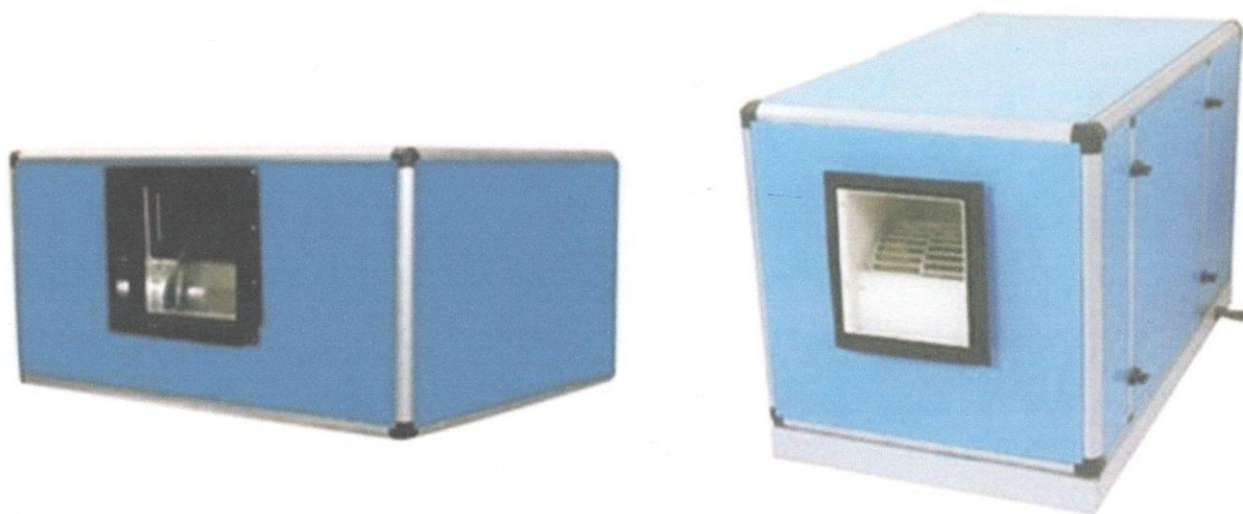


# AIR HANDLING UNITS



## CONSTRUCTION FEATURES

### CASING

- Rigid corrosion resistant extruded aluminium hollow framework held together with PVC corner joints.
- Double skin sandwiched panels with inner skin of 24 G (0.6 mm) plain galvanized steel sheets & outer skin of 24 G (0.6 mm) pre-coated galvanized steel sheet.
- Casing Panels are injected with high pressure PUF insulation having density of  $38 \pm 2 \text{ kg/m}^3$ . Standard AHU models have 25 mm thick panel.
- Die cast aluminium hinges and nylon handle on each access door.
- Assembly is done using self drilling and self tapping galvanized sheet metal screws.
- Horizontal & Vertical Units are skid mounted. The base frame is rugged in construction made from galvanized steel sheet.
- Standard AHU is having fan coil & pre-filter arranged in Draw through arrangement.

### FAN AND MOTOR ASSEMBLY

- Fans are DIDW Centrifugal forward / backward curved type. Fans are energy efficient & AMCA certified. Horizontal / Vertical AHU fans are belt driven while ceiling suspended AHU's have both direct and belt driven models.

- 'F' insulation conforming to IS 325. Motors are suitable for 3 phase  $415 \pm 10\% \text{ V}$ ,  $50 \pm 5\% \text{ Hz}$  AC supply. Direct driven motors are suitable for single phase  $220 \text{ V}$ ,  $50 \text{ Hz}$  AC supply. Energy efficient level 1 motor as per IS 12615 can be provided on request.
- Fan & Motor are mounted on common extruded aluminium channel base frame.
- The combined fan motor base frame is mounted on suitable vibration isolator to minimize vibration transmission.
- The fans are connected to the casing through fire resistant canvass connection.
- AHU outlets have flanged connection for duct connection.
- AHU can have either of the following air discharge orientation, Up Blast/ Top Horizontal/ Bottom Horizontal.

### COILS

- Can be either Chilled water / direct expansion type.
- Galvanized sheet steel end plates shall hold the copper tube pack.
- The coil tubes are plain copper having 12.7 mm OD. The coil tube arrangement is multi circuited with choice of 2/4/6/8 row deep in the direction of air flow.
- Tubes are mechanically expanded for better bonding with aluminium fins for efficient heat transfer.
- Free flow aluminium fin configuration provide better heat transfer and less air pressure drop. Depending on application, one can choose from 8/10/12 FPI fins spacing.
- Water coils are self drainage and vented type.
- Coil header shall be of copper

### DRAIN PAN

Wide drain pan facilitates quick draining of condensate. Drain pan is fabricated out of corrosion resistance 22 G stainless steel. To avoid surface condensation, drain pan is insulated with closed cell insulation.

### FILTER

Standard units are provided with sliding box type pre-filter with synthetic non woven media. The filter is of EU 4 grade as per EN 779 standard. The filters are washable type and are 50 mm thick for floor mounted and 25 mm thick for ceiling suspended.

### ACCESSORIES

- Access door in fan / fine & HEPA filter section (as applicable).
- Marine lamp in fan section for better visibility.
- View port in fan section.
- Door limit switch to switch off the motor automatically for personnel safety



We handle AIR with care...

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