



Air Handling Units



Complete Solution for
Indoor Air Quality Improvement



Double Skin Air Handling Units

Envision Biotech offers double skin Air Handling Units manufactured in a quality range with airflows varying from 1,000 to 30,000 cfm and up to 150mm total static pressure with following salient features:

Frame Work

The frame work comprises an assembly of extruded aluminum profiles and 3D nylon glass filled reinforced corner joints.

Double Skin sandwich panels are fabricated from inside with 0.63 / 0.8mm G.I. /A.L. /S.S. sheet steel and outside with 0.63 / 0.8mm thick pre-coated galvanized sheet steel with guard film. The panels are polyurethane foam injected with density 40 kg/m³, having thickness of 25mm and 50mm resulting in high rigidity and sound attenuation characteristics.

Entire unit is mounted on extruded aluminium channels or galvanized legs.

Fan

Fan section is designed for housing DIDW forward curved/ backward curved fan of nicotra /comefri, Italy.

High Efficiency Filter Section

High efficiency filter section is designed for housing 300/500mm thick Hepa /Bag /Micro-vee filters. Filter section is provided with access door panel.

Coil Section

Coils are selected to obtain optimum psychometric efficiency with low air and water pressure drops. The chilled water or direct expansion or hot water coils are constructed from copper tube hydraulically /mechanically bonded to aluminum fins. The coil assembly complete with header is fitted on aluminium rails and nylon rollers for easy withdrawal from either sides.

Drain Pan

Drain pan is fabricated from 1.6mm (16g) aluminium and 1.25mm (18g) stainless steel sheet having uniform slope from all sides for zero water retention. Entire assembly is mounted on insulated bottom panel.

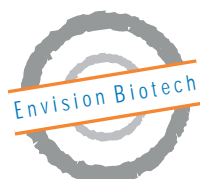


Pre Filter Section

Pre-filter section is designed for housing 48/50mm thick filters. Filter section is provided with access door panel with imported aluminium die-cast powder coated heavy duty hinges and nylon handles. The pre-filter frame can also be mounted directly on face of the Air Handling Unit (Return air side).

Fan Section & Motor Assembly

Fan and motor assembly is mounted on base frame constructed of aluminium extruded profile /galvanized sheet steel. The frame assembly is isolated from the rest of the general structure with anti-vibration spring isolators and fire retardant flexible canvas connection fitted on fan discharge.



ENVISION BIOTECH

B 113-114, Sector-10, Noida - 201301

Phone: 0120-5337664, 9811792234

E-mail: envisionbiotech@indiatimes.com