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# clean room conditioning specialist



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## CLEAN ROOM AIR HANDLING UNITS

Double skin | Customizable | Compact | Energy-efficient



Choose your air.

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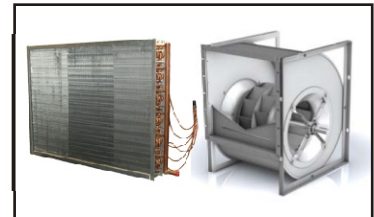
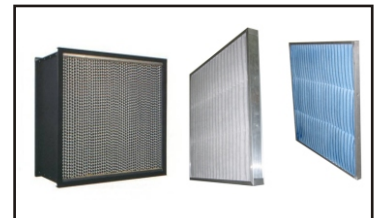
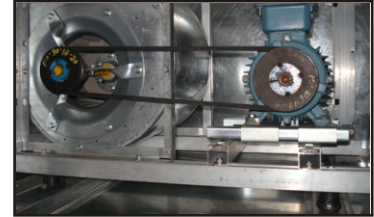
## GENERAL DESCRIPTION

Clean room air handling units are widely accepted as highly engineered and strictly scrutinized air management devices that cater to every field of clean-room and pharmaceutical air conditioning applications for static pressures ranging from 40 mmWG to 125 mmWG and beyond. The units, manufactured using modular constructional method and designed using the latest selection softwares, that provide smooth working and easy maintenance capabilities to them.

**RANGE :** 600 CFM to 10000 CFM (Standard models) Higher capacities available as well.

## CONSTRUCTIONAL FEATURES

FRAME	:	Extruded Aluminum profile and 3D nylon corners etc.
BASE	:	Heavy gauge GSS base frame with cast Al corners
CASING	:	23 ± 2 mm thick, double skin panels made of 0.6 mm sheets with Poly Urethane Foam (PUF) of density 38 ± 2 kg/cu.m injected between the two skins
COOLING COILS	:	DX/CW type made up of Copper pipe and Aluminum fins, duly tested at 250 lbs under water
FILTERS	:	Flange/Box type Pre filters, Micro Vee filters and HEPA filters provided as per requirement and design
BLOWERS	:	AMCA certified DIDW type, centrifugal blowers, forward/backward curved Common-rail base for blower-motor assembly on vibration isolation pads
MOTORS	:	TEFC type, Three phase motors of standard make
MOTOR STAND	:	Adjustable motor-mounting fixture
PULLEYS	:	Adjustable Taper-Bush type pulleys
DRAIN PAN	:	Dual GSS pan with sandwiched insulation and inherent slope
CANVAS CONNECTION	:	Flexible connection to isolate blower from unit body
DAMPERS	:	Volume Control dampers for SA, RA and FA etc.



## CHARACTERISTICS

MODULAR CONSTRUCTION	:	For easier maintenance of the units
DOUBLE SKIN CASING	:	Higher efficiency and low noise
VIBRATION ISOLATORS	:	The units are provided with blower-motor assembly mounted on vibration isolators to make the units vibration free.
PORTHOLE	:	Viewing glass is provided for easier inspection without opening the door
GASKET SEALED PANELS	:	Low leakage and quiet operation is ensured by using high quality gasket to seal the panels, doors etc.
ADJUSTABLE MOTOR STAND	:	The belt tension can be easily adjusted by screwing or unscrewing the bolt provided on the motor stand
FLEXIBLE CONNECTION	:	High quality canvas connections prevent vibrations to be carried over from the blower to the unit body

**APPLICATIONS :** Clean rooms, Operation Theaters, Research Institutes, Laboratories, Hospitals, Food processing industries, Injectable Units, Syrup Sections, Eye/Ear drop sections etc. in pharmaceutical industries.

**OPTIONAL :** S.S. Drain Pan, Eliminator / Humidifier / Dehumidifier sections, Limit Switch, Al. Volume Control Dampers



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## Airef Engineers

570, Industrial Area, Phase - 9, Mohali - 160062, Punjab, India  
T: 0172 2232580 M: 9814178328, 9872924004, 9814636328  
e mail: mail@airefengineers.net Website: www.airefengineers.net