



Experts in Air Handling solutions

VSC is a leader in providing customized and innovative Air handling solutions for innovative applications. We have served diverse needs of varied business segments.



- ▶ Office Buildings
- ▶ Cinemas
- ▶ Aerospace & Car Industry
- ▶ Cold Storage
- ▶ Hotels
- ▶ Hospitals
- ▶ Airports
- ▶ Food & Beverages
- ▶ Commercial Centers
- ▶ Pharma Industry
- ▶ Data Centers
- ▶ Food & Beverages
- ▶ Education Buildings
- ▶ Microelectronic
- ▶ Marine & Offshore
- ▶ Green Building
- ▶ Museums
- ▶ Power Plants
- ▶ Textile Industry

AIR CONDITIONING

Return Air Discharge

Humidification

Heating

Fresh Air Requirement

Cooling

Dehumidification

OUR Products includes

Floor Mounted Air Handling Unit | Ceiling Suspended AHU | Heat Recovery Unit
Single Stage Air Washer | Two Stage Air Washer | Wet Scrubber
Vertical Floor Mounted Unit | Cabinet Ventilation Units

FLOOR MOUNTED UNIT (single & double tier)

"Air Conditioning" is defined as the conditioning of indoor air in order to maintain temperature, humidity, cleanliness and air movement at levels suited to human health and comfort or the industrial processes conducted.

Capacity Air flow **800 to 60000 CFM** & above. Static Pressure: As per requirement (Generally **50mm to 200mm**)



COIL SELECTION SOFTWARE'S

We provide selection report that precisely match your application requirements. The coil can be configured based on the desired MBH, with the software varying the rows, fins per inch, and circuitry to find the closest match.

CEILING SUSPENDED DUCTABLE UNITS

VSC units, as the name suggests, can be suspended from the ceiling and hence require no floor space. These are ideal for commercial application where floor space is at a premium

Capacity Air flow **800 to 12000 CFM** & above. Static Pressure: As per requirement (Generally 40mm to 50mm)



AIR STERILIZATION WITH THE ULTRAVIOLET METHOD

Light which has a wavelength that is shorter than visible light, but longer than X-rays is called "ultraviolet" light. This special light which is used as disinfectant is called "low wavelength light" or "UV-C" light. This wavelength falls in the UV-C band which is between 200 nm (nanometers) and 280 nm. Air used in air handling units is cleaned with filtering systems. The coarse dust and particles in the air are captured with filters. Micro-organisms which are suspended in air and cannot be captured by regular filter systems, i.e. bacteria, viruses, molds and funguses, which threaten the health of humans, have their effect on the personnel working in indoor spaces and on the product being manufactured.

This leads to many financial losses. Ultraviolet (UV) systems prevent all these microbiological problems. UV rays allow air sterilization. UV rays also neutralize bacteria, which cause unwanted odours in the environment. UV air sterilization is a biological purification.



ELECTRICAL HEATERS

In standard electrical heater coils, finned galvanized steel tubes are used. The use of stainless steel tubes is also possible as an option. All electrical coils are placed within a galvanized sheet casing. Ceramic terminals and safety thermostat used for controlling maximum temperature are standard pieces. Electrical heaters can be placed inside any commercial or industrial air conditioning, heating, or ventilation equipment. High capacity electrical heating coils can be split into the desired stages upon demand.

GI / Stainless Steel / FLP Heaters Strip & Tubular

SPRAY TYPE (Wet Scrubber)

This type houses a set of spray nozzles which injects the water into the air stream in the form of a fine atomized mist (By breaking the water into fine particles we are able to increase the surface area by multiple folds for the same volume of water).



HEAT RECOVERY UNITS

Air handling units condition indoor air with their heating, cooling, humidification and de-humidification functions. Furthermore, air handling units supply the fresh air requirement from the environment with filtered air.

Capacity Air flow **800 to 20000 CFM** & above
Static Pressure: As per requirement (Generally 50mm to 200mm)



VERTICAL AIR HANDLING UNITS FLOOR MOUNTED TYPE

VSC vertical air handling units are designed to occupy less floor space than the horizontal units and are preferred when floor space is a constraint. The units are provided with a panel opening at the front of the fan section enabling easy maintenance and serviceability of the unit.

Capacity Air flow **800 to 20000 CFM** & above.

Static Pressure: As per requirement (Generally **50mm**)



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