

## Technical Data Sheet



AirQon Synergies

### Air Handling Unit

An air handling unit, commonly called an **AHU**, is the composition of elements mounted in large, accessible box-shaped units called modules, which house the appropriate ventilation requirements for purifying, air-conditioning or renewing the indoor air in a building or premises.

In addition to managing the proper ventilation of the interior with outside air, the AHU performs other functions:

- Filtration and control of the quality of the air that will reach the interior, using air purification filters, and depending on the retention of these filters, the air will be clean.
- Control of the air temperature that regulates the air conditioning system in cold or hot, so that the thermal sensation in the interior is the desired one.
- Relative humidity monitoring for greater indoor comfort.



### Types of Air Handling Units

1. Horizontal & Vertical Units
2. Draw through and blow through Units
3. Outdoor air/make up air Units
4. Rooftop/Indoor Units
5. Packaged Air Conditioning Units

### Construction

Air Handling Units are built in Single unit body or in sections made of robust aluminium alloy structure for strength and corrosion resistance. For each section, panels are made of enclosing components which are made up of mild steel fabricated as sandwiched panels filled with either polyurethane or foam insulation. All components are fixed and positioned as per type of air handling unit or the composition required as per client or premises. All panels are Powdercoated with electrostatic polyester dry powder coating.

Components of Air Handling Unit includes:

- Air Blower
- Cooling / Heating Coil
- Filters (Pre-Filter, Bag Filter, Hepa Filter)
- Air Distribution Plenum

Extra components for Packaged Air Conditioning Unit

- Dx Coil
- Compressors
- Condenser