

Chilled Water Fan Coil Unit

PRODUCT DETAILS:

Country of Origin

Made in India



Chilled Water Fan Coil Unit (FCU)

- HVAC unit designed to provide cooling (and optional heating) to individual rooms or zones
- Operates using chilled water supplied from a central chiller plant
- Suitable for hotels, offices, hospitals, commercial buildings, and residential complexes

Main Components

- Fan/Blower for air circulation
- Chilled water coil for heat exchange
- Air filter for dust removal
- Drain pan for condensate collection
- Thermostat for temperature control
- Control valve (optional) for regulating water flow

Working Principle

- Chilled water flows from the central chiller to the coil
- Warm room air is drawn into the unit
- Air passes over the chilled water coil and transfers heat
- Cooled air is supplied back into the room
- Warmed water returns to the chiller for re-cooling

Types

- Ceiling Concealed
- Wall/Floor Mounted
- Cassette Type

Advantages

- Energy-efficient when connected to central plant
- Independent temperature control for each space
- Quiet operation
- Minimal ductwork requirement

Considerations

- Requires chilled water piping and chiller system
- Regular maintenance of filters and coils required
- Proper condensate drainage system necessary