



SPLIT AIR CONDITIONER

- ❖ Split Air Conditioner is the modified version of the window air conditioner.
- ❖ The Split AC is developed to overcome the difficulty of noise.
- ❖ In them, the compressor and condenser are located at a remote location and only the evaporator coil and a fan are located near the application.

Working Principle:-

- ❖ A split system air conditioner sucks in the warm air and lowers its temperature before blowing it back into the room.
- ❖ The moisture inside the room condenses in the process, which is then removed through a drain pipe present in the outdoor unit.

❖ ADVANTAGES

- Noiseless operation .
- Less Vibrations.
- No necessity of wall opening.
- More accessible for maintenance.

❖ DISADVANTAGES

- High cost of input.
- Poor COP of unit
- More leakage chances
- Control over operation is difficult.

Construction & Components :-

- 1) *The outdoor unit* -- The outdoor unit, fitted outside the room, houses components like the compressor, condenser, and expansion valve.
- 2) *The indoor unit* -- The indoor unit comprises the evaporator or cooling coil and the cooling fan. The split air conditioner can be used to cool one or two rooms.

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