

Question and Answers –HVAC

1 What are the types Of Air Conditioning Systems?

Ans. : Types of Air Conditioning Systems:

- A) Window Air Conditioner
- B) Split Air Conditioner (Duct less)
- C) Packaged Air Conditioner
- D) Central Air Conditioning System
- E) Portable Air conditioners
- F) Evaporative Air conditioners
- G) Geothermal Air Conditioning System, etc.

2 What is Centralized Air Conditioning System?

Ans. : Central air conditioning is a common term used to describe most whole-home air conditioning systems. It replaces warm air with cool air that's been passed over cold coils, then pushes it into your living spaces. There are two different types of central air conditioners—split systems and packaged systems. A split system has both an indoor and outdoor unit, while a packaged system is contained in a single outdoor unit to help when there is limited space

3 What are the components in split AC system?

Ans.: In a split system:

- Outdoor unit—fan, condenser coil, and compressor
- Indoor unit—furnace or fan coil, which houses the evaporator coil and fan to circulate cool air
- Copper tubing—where the refrigerant flows between the indoor and outdoor units

4 What are the components in Package AC system?

Ans. : In a packaged system:

- Fan, condenser coil, compressor, and fan coil—all in one unit

5 What are the types of Refrigerants used in Buildings?

Ans. : A) HCFC -22 (R-22)

B) R-410A

C) R-407C

D) R-600

6 How Vapor Compression Cycle works?

Ans. : The Vapor-Compression Refrigeration Cycle is comprised of four steps. The condenser is in contact with the hot reservoir of the refrigeration system. (The gas releases heat into the hot reservoir because of the external work added to the gas.) The refrigerant leaves as a high pressure liquid.

7 What is BTU?

Ans. : The British thermal unit (Btu or BTU) is a traditional unit of heat; it is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit. Heat is now known to be equivalent to energy, for which the metric unit is the joule; one BTU is about 1055 joules.

Lab Manual Hvac Review Questions

Xiaolong Qi



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