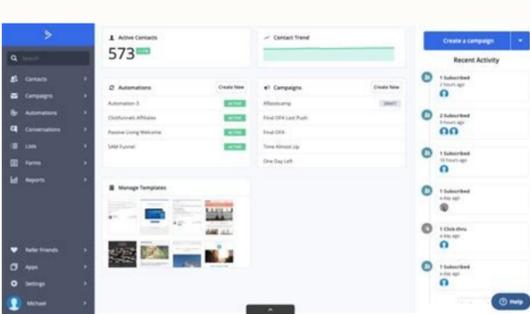


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What Is Variable Air Volume System & Dual Duct System? Mechanical Engineering Interview Questions Question 13. Answer :An HVAC engineer's job duties can include the design, installation, maintenance, and repair of heating, ventilation, air conditioning, cooling, and refrigeration systems. Its primary function is to convert the refrigerant coming from the compressor from a high temperature, high pressure vapor into a high pressure liquid through condensation. There are many advantages to heating your home using a hydronic system, whether it is for a new home or as a replacement heating system. Answer :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. Answer :The AC condenser is a very important component found on virtually all modern automotive AC systems. Answer: A ton, as used in the HVAC field, is a term that describes how much heat the AC unit can remove from a home in one hour. What Is Centralised Air System? Answer :The compressor does exactly as its name says: it compresses the refrigerant. evaporative. Answer :In the refrigeration cycle, there are five basic components: fluid refrigerant; a compressor, which controls the flow of refrigerant; the condenser coils (on the outside of the fridge); the evaporator coils (on the inside of the fridge); and something called an expansion device. Why Capacity Of Air Conditioner Is Measured In Tons? Answer :The most common central cooling system is a split system, which includes an outdoor cabinet containing a condenser coil and compressor, and an indoor evaporator coil, usually installed in conjunction with your furnace. When determining the area, use the outside dimensions of the dwelling. What Is The Meaning Of 1 Ton Of Ac? How Vapour Compression Cycle Works ? An air handler usually contains a blower, heating or cooling elements, filter racks or chambers, sound attenuators, and dampers. What Are The Types Of Condensers? Air Conditioning and Refrigeration Interview Questions Question 19. These are usually centralized units employed to induce fresh air quantities to the confines spaces. Typically a fan coil unit is not connected to ductwork and is used to control the temperature in the space where it is installed, or serve multiple spaces. Answer :Psychrometry is a psychic ability in which a person can sense or "read" the history of an object by touching it. Question 31. What Is The Use Of Compressor In Refrigeration? How Does The Ahu Work? In a simple CAV system, the supply air flow rate is constant, but the supply air temperature is varied to meet the thermal loads of a space. Question 15. What Is Constant Volume System? When the hot gas in the coils meets the cooler air temperature of the kitchen, it becomes a liquid. What Is The Main Function Of A Condenser? What Is A Gas Compressor Used For? Answer :Inside the condenser, the refrigerant vapor is compressed and forced through a heat exchange coil, condensing it into a liquid and rejecting the heat previously absorbed from the cool indoor area. When calculating branch circuits and feeder/service loads for dwellings, include a minimum 3VA per sq ft for general lighting and general-use receptacles [220.12]. In HVAC industry, Btu's measure the quantity of heat a conditioning unit can remove from a room per hours. As mentioned earlier, as the gas is compressed, the temperature rises. Question 30. Question 17. Compressors are similar to pumps: both increase the pressure on a fluid and both can transport the fluid through a pipe. water-cooled. Revit Interview Questions Question 34. What Is Btu? The condenser's heat exchanger is generally cooled by a fan blowing outside air through it. Most CAV systems are small, and serve a single thermal zone. Mechanical Engineering Interview Questions Question 3. What Is The Function Of Ahu? What Is Vapor Compression Cycle? Answer :An Air Handling Unit (AHU) is used to re-condition and circulate air as part of a heating, ventilating and air-conditioning system. It is part of an HVAC system found in residential, commercial, and industrial buildings. What Does A Hvac Engineer Do? The measurement for heat is the British thermal unit (BTU). What Is The Fcu? Answer :Constant Air Volume (CAV) is a type of heating, ventilating, and air-conditioning (HVAC) system. The compressor pumps a chemical called refrigerant through the system. They come into picture wherever there are limitations to fresh air intake either directly or through AHUs. Aircraft Maintenance Interview Questions Question 28. Such a person can receive impressions from an object by holding it in his/her hands or, perhaps, touching it to the forehead. Plumbing Interview Questions Question 25. Answer :The three main types of condensers used in general refrigeration systems are: air-cooled, Plumbing Interview Questions Question 8. A one-ton air conditioner is rated at 12,000 Btu per hour (288,000/24). Aircraft Maintenance Interview Questions Question 10. Water Softener Interview Questions Question 27. (A BTU is a British Thermal Unit, approximately the amount of heat you get from burning one kitchen match all the way down.) Revit Interview Questions Question 12. Answer :A ton is the cooling capacity of an air conditioning system. Question 35. Question 26. How Does A Condensing Unit Work? (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. What Are The Types Of Air Conditioning Systems? Answer :In systems involving heat transfer, a condenser is a device or unit used to condense a substance from its gaseous to its liquid state, by cooling it. What Is Psychrometry? Question 23. An air compressor is a specific type of gas compressor, or air handler. Solar Water Pumps Interview Questions Question 21. Answer :FAHU is the abbreviation used for FRESH AIR HANDLING UNIT. Unlike constant air volume (CAV) systems, which supply a constant airflow at a variable temperature, VAV systems vary the airflow at a constant temperature. One ton is equal to the amount of heat required (288,000 Btu) to melt one ton of ice in a 24-hour period. Answer :While the Energy Center usually tries to avoid the use of acronyms, HVAC is in common use in the heating and cooling industry. how Does A Condenser In A Refrigerator Work? Answer :An air handler, or air handling unit (often called an AHU), is used to condition and circulate air as part of an HVAC system. Answer :Variable Air Volume (VAV) is a type of heating, ventilating, and/or air-conditioning (HVAC) system. WASH Officer (Water, Sanitation, and Hygiene) Interview Questions Question 16. The refrigerant absorbs the heat inside the fridge, cooling down the air. Answer :A rotary-screw compressor is a type of gas compressor that uses a rotary-type positive-displacement mechanism. Where The Fcu's Are Used? What Is Hydronic System Or Air-water System? Answer :The infiltration rate is the volumetric flow rate of outside air into a building, typically in cubic feet per minute (CFM) or liters per second (LPS). Answer :The Vapor-Compression Refrigeration Cycle is comprised of four steps. They are commonly used to replace piston compressors where large volumes of high-pressure air are needed, either for large industrial applications or to operate high-power air tools such as jackhammers. What Is The Meaning Of Btu In Air Conditioners? One ton of air conditioning can remove 12,000 BTUs of air per hour. Question 2. What Is Cfm & Infiltration? It stands for "heating, ventilation and air conditioning," three functions often combined into one system in today's modern homes and buildings. In so doing, the latent heat is given up by the substance, and will transfer to the condenser coolant. How Does A Refrigerant Compressor Work? Question 5. Answer :A 4 ton air conditioner is one that can remove 48,000 BTUs of heat per hour from the house. Answer :An air handler is usually a large metal box containing a blower, heating or cooling elements, filter racks or chambers, sound attenuators, and dampers. What Is The Hvac System? Answer :A fan coil unit is a simple device consisting of a heating or cooling coil and fan. Question 9. Answer :The standard method consists of three calculation steps: General lighting VA load. A Btu is the amount of heat needed to raise 1 (one) pound of water by 1(one) degree Fahrenheit. Answer :A Fan Coil Unit (FCU) is a simple device consisting of a heating and/or cooling heat exchanger or 'coil' and fan. How The Lighting Load Is Calculated? Question 4. Question 33. Question 20. For most people, though, 4 tons means 8000 pounds. Answer :Hydronic systems circulate hot water through warming baseboards, radiators and/or radiant tubing in your floors or ceilings. What Is Auto Refrigeration? Question 11. What Is An Air Conditioner Condenser? What Is The Purpose Of Air Handling Units? What Is The Meaning Of Fahu? Watershed Interview Questions Question 18. ... What Is An Air Conditioning Ton? The condenser is in contact with the hot reservoir of the refrigeration system. One BTU per hour is equal to 0293 watts. Answer :A gas compressor is a mechanical device that increases the pressure of a gas by reducing its volume. Question 7. Answer :Btu - British Thermal Unit (Btu) is the international measure of energy. What Is Local Comfort Cooling System? Answer :Types of Air Conditioning Systems The choice of which air conditioner system to use depends upon a number of factors including how large the area is to be cooled, the total heat generated inside the enclosed area, etc. Window Air Conditioner. Split Air Conditioner. Packaged Air Conditioner. Central Air Conditioning System. Question 22. Air Conditioning and Refrigeration Interview Questions Question 6. Why Is A Compressor Used In Refrigeration? Answer :Auto-refrigeration is a process where an unintentional and/or uncontrolled phase change of a hydrocarbon from a liquid state to a vapor occurs, resulting in a very rapid chilling (refrigeration) of the liquid containing local equipment and/or piping. Mechanical Fitter Interview Questions Question 24. Heat is now known to be equivalent to energy, for which the metric unit is the joule: one BTU is about 1055 joules. The air exchange rate, (L), is the number of interior volume air changes that occur per hour, and has units of 1/h. Air handlers usually connect to a ductwork ventilation system that distributes the conditioned air through the building and returns it to the AHU. Question 14. The compressor receives low pressure gas from the evaporator and converts it to high pressure gas. What Is A Rotary Air Compressor? Answer : The compressor constricts the refrigerant vapor, raising its pressure, and pushes it into the coils on the outside of the refrigerator. Question 1. Question 32. It is part of an HVAC system found in residential, commercial, and buildings. Answer :They may be integrated, with heating, ventilation and air conditioning provided by a single system, for example, air handling units connected to ductwork, or they may be a combination of separate systems, for example mechanical ventilation but with radiators for heating and local comfort cooling units. A two-ton unit would be rated at 24,000 Btu per hour. The basic function of the AHU is take in outside air, re-condition it and supply it as fresh air to a building. Question 29. The hot refrigerant gas then flows to the condenser. Answer :Vapor-Compression Refrigeration or vapor-compression refrigeration system (VCRS), in which the refrigerant undergoes phase changes, is one of the many refrigeration cycles and is the most widely used method for air-conditioning of buildings and automobiles.

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