

Primary Topics for Competency 13

- Supply Air
- Return Air
- Air Exchange
- Air Conditioning
- ACH calculations
- Duct Sizes

Terms & Abbreviations to be defined or identified for Competency 13

- Duct
- Register
- Return
- R Factor
- CFM
- ACH
- Air Flow
- Vent
- Joint
- Heating Supply System
- Opening
- Package Unit
- Compressors
- Thermostat
- Zone
- Air Exchanger

Sample Questions

Air supply registers are typically placed:

- a. On the floor along an interior wall
- b. On the floor below windows
- c. On the ceiling along an interior wall
- d. On the ceiling above windows

The best location for a thermostat is near:

- a. The front door for convenience
- b. The return air register
- c. The supply air register
- d. an exterior wall

The unit measure of heat is the:

- a. Grain
- b. Btu
- c. R factor
- d. U factor

Air conditioning systems need compressors primarily:

- a. To circulate refrigerant through the system
- b. To change the temperature of the refrigerant
- c. To circulate the conditioned air through a central forced-air system
- d. None of the above

A duct labeled 22/12 is:

- a. 22 inches deep
- b. 22 square inches in cross-section,
- c. 12 inch diameter- 22" Long
- d. 22 inches wide

An appropriate scale for an HVAC detail is:

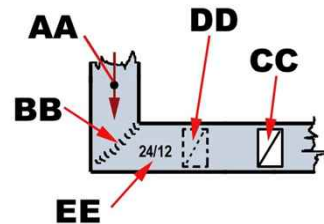
- a. $1/4" = 1'-0"$ (1:50)
- b. $6" = 1'-0"$ (4:2)
- c. $1" = 1'-0"$ (roughly 1:10)
- d. None of the above

The abbreviation _____ indicates the rate of air flow:

- a. CFM
- b. RA
- c. WA
- d. AFR

Identify Item "AA" in the adjacent example

- a. Air Flow Direction
- b. Up Lift Indicator
- c. Upper Duct Level
- d. None of These



When using a "Split Unit" the Heating Unit is Located Where

- a. Inside
- b. Outside
- c. On the Roof
- d. All the above