Quiz 23

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1. A disadvantage of the atomizing humidifier is:

    a. it has a lower humidification rate than the pan type humidifier
    b. its evaporation plates clog up due to the salt left behind after evaporation
    c. it can be used only as an individual area or room humidifier
    d. its evaporation plates have to be replaced regularly
    e. the salts that were in the water before atomization and evaporation settle as white dust in rooms and ducts

2. A humidifier breaking up the water into a mist of fog is the:

    a. bypass humidifier
    b. welted element humidifier
    c. atomizing humidifier
    d. air washing humidifier
    e. steam grid humidifier

3. Atomizing humidifiers:

    1. break up the water for humidification into small particles by either a spinning disc or spray nozzle and are placed either in the warm air supply duct or in an area to be humidified
    2. spray water through plates to atomize the water
    3. spray water through rotating pads to atomize the water
    4. can be either the power type or the bypass type
    5. have a lower humidification rate than the pan type humidifiers

4. Dehumidification when using an air washer occurs when:

    a. the level in the bottom tank drops lower than the minimum level
    b. the water temperature is heated above the dry bulb temperature
    c. the spray water is cooled to a temperature below the dew point
    d. heating of the spray water
    e. passing the water through the air washer when the spray water is shut down

5. Humidification in residences equipped with ducted warm air heating systems:

    a. is not necessary because the humidity does not change with heating
    b. requires separate humidifiers for each heated area
    c. is accomplished by installing a second heating system, such as hot water
    d. is supplied sufficiently by normal living processes such as cooking, washing, and breathing
    e. is provided for by placing a single humidifier in the furnace plenum or in the warm air duct

Quiz 23 Answers:

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1 = a, 2 = c, 3 = a, 4 = c, 5 = e