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Continuing Education Course #147
Airdoor Fundamentals and Applications

1. Air curtains essentially provide a resistance or force that is intended to change the direction of another force that comes into contact with it.
 - a. True
 - b. False

2. An advantage to using air doors/air curtains is that they _____.
 - a. provide a thermal barrier that can be more energy efficient than other systems in providing comfortable air temperatures in the space.
 - b. allow unobstructed visual viewing through the opening.
 - c. can provide more efficient and cost effective solutions to engineering problems than other HVAC equipment or systems.
 - d. All of the above.

3. Air doors can be used for _____.
 - a. Insect control
 - b. Dust control
 - c. Odor control
 - d. All of the above

4. Fans used in larger air doors are generally centrifugal single width, single inlet forward curved types.
 - a. True
 - b. False

5. The motors in air curtains can't be resiliently mounted and are limited to only ODP type motors.
 - a. True
 - b. False

6. A standard that can be used in specification for air doors is _____.
 - a. AMCA 220 "Test Methods for Air Curtain Units"
 - b. ARI 410 "Forced-Circulation Air-Cooling and Air-Heating Coils"
 - c. NSF 37 "Air Curtains for Entranceways in Food and Food Service Establishments"
 - d. All of the above

7. There is not an AMCA Standard for noise measurement for air door/air curtain equipment.
 - a. True
 - b. False

8. If the fan scroll discharge of and air door is too close to the nozzle the unit may have alternating high velocity and low (or no) velocity spots across the length of the nozzle.
 - a. True
 - b. False

9. An air door being used to keep insects out of a building would have the nozzles directed straight down vertically toward the floor to be most effective.

- a. True
- b. False

10. Sizing considerations need to take into account the size of the door (width and height), the differential pressure between the spaces and wind velocity.

- a. True
- b. False

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