

Construction and Industry ASCS

Air Systems Cleaning Specialist (ASCS)

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Question: 1

VAV system meet changing load requirements by adjusting the amount rather than the temperature of chilled air that flows to a zone. Each zone has a thermostat that controls the airflow via dampers or movable plates that obstructs airflow in a VAV box. The dampers have adjustable minimum and maximum setting.

- A. VAV boxes
- B. In vav systems
- C. Size of closures
- D. Air economizer

Answer: A

Question: 2

Physical removal of contaminants and debris not intended to be present, from internal HVAC system surfaces

- A. Clean
- B. Air Ducts
- C. Mechanical Cleaning
- D. Duct Cleaning

Answer: C

Question: 3

may be used to determine cleanliness of both non-porous and porous HVAC component surfaces . The component's surface conditions are evaluated by comparing visible characteristics of the test surface before and after implementing a specific procedure of contact vacuuming .

- A. method 1- visual inspection
- B. method 2- surface comparison
- C. method 0- surface comparison
- D. method 98- surface comparison

Answer: B

Question: 4

Filters are primarily used to remove particles from the air. The type of design of the filter determines its efficiency at removing particles of a given size in the amount of energy needed to pull or push air through the filter. Filters are rated by different standards and test methods such as dust spot, restaurants, or minimum efficiency reporting value (MERV)

- A. zone mixing boxes
- B. hepa
- C. filters
- D. contact vacuum

Answer: C

Question: 5

Visual observation of coil surfaces can be misleading, therefore it is recommended that a static pressure drop measurement be obtained before and after the cleaning process to demonstrate the effectiveness of such efforts .

- A. method 1- visual inspection
- B. service panels used for closing service openings
- C. type 2 coil cleaning (wet cleaning)
- D. measuring the effectiveness of coil cleaning

Answer: D

Question: 6

Series of small blades in a large rectangular box open and close in parallel, altering the direction of airflow when the blades are partially closed. Blades and box dampers may be aligned either horizontally or vertically.

- A. Turning vanes
- B. Parallel blade box damper
- C. Dual duct system
- D. Zone mixing boxes

Answer: B

Question: 7

the study of microorganisms, which are microscopic, unicellular, and cell-cluster organisms

- A. Disinfectants
- B. Decontaminate
- C. Hvac Inspector Role
- D. Microbiology

Answer: D

Question: 8

Static fire dampers closed when the HVAC system blower is not running. Dynamic fire dampers close when the HVAC system blower is running and will close under maximum rated airflow.

- A. Parallel blade box damper
- B. Type 1 coiling cleaning(dry cleaning)
- C. Measuring the effectiveness of coil cleaning
- D. Two primary categories of fire dampers

Answer: D

Question: 9

The unique characteristic of Forward Curved fans is that they transfer large volumes of air for a minimum wheel diameter. Therefore, they are used when space requirements are a primary consideration.

- A. fans
- B. packaged units
- C. particulate
- D. ventilation

Answer: A

Question: 10

shall be taped with UL 181A

- A. all service openings
- B. size of closures
- C. dislodged substances
- D. dislodged substances

Answer: A

Question: 11

overcooling or overheating can occur within a given zone if the system is not adjusted to the load appropriately

- A. fire damper
- B. mold growth problems
- C. in vav systems
- D. multi-zone system

Answer: C

Question: 12

Curved baffles inserted in a duct elbow to decrease pressure loss through the elbow.

- A. Axial fans
- B. Hand snips
- C. Turning vanes
- D. Parallel blade box damper

Answer: C

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