

1. Installing a direct-contact water heater results in a decrease in

- A. system response time.**
- B. part-load efficiency.**
- C. project budget.**
- D. NO and CO emissions.**

Objective 1A

Task 2

Recall

Answer: D

2. A typical 10,000 sq. ft. (1,111 sq. m) office building has an hourly cooling load of 220,000 btuh and a supply air quantity of 30,000 cfm. Which of the following is true of this building?

- A. The lighting energy intensity is excessive.**
- B. The cfm per ton is within industry standards.**
- C. The differential temperature across the HVAC equipment may be too low.**
- D. The space is properly modeled.**

Objective 2D

Task 3

Analysis

Answer: C

3. A PID controller operates a chilled water valve to a coil in an air handler unit. The valve oscillates with a period of about 10 seconds. Which of the following is the MOST likely the problem?

- A. The "P" term is too large.**
- B. The "I" term is too large.**
- C. The "D" term is too large.**
- D. The valve stem is sticking.**

Objective 4A

Task 2

Application

Answer: A