

Name _____
Date _____

TDP-613
Fans in VAV Systems

1. Describe what can happen in a VAV system if there is no fan regulation.

2. List three current methods of fan volume control in VAV systems.

- a) _____
- b) _____
- c) _____

3. Explain why part load fan stability in a VAV system is important.

4. What is a rule of thumb for using a return fan that is popular with design engineers?

5. What is the difference in potential energy usage between using an exhaust fan or a return fan on a VAV system?

6. Describe a typical VFD control arrangement on a VAV fan.

7. Explain why an eddy current coupling is not as energy efficient as a VFD for fan volume control.

8. List two reasons why inlet guide vanes are a less popular method of fan volume control than VFDs.

