Conducting an Enclosure Integrity Test

A Photo Summary

1. Arriving at test site, equipment easily fits in suv or work van.

2. Equipment loaded on hand truck

3. Rolling into test zone

4. First thing—disconnect tank!

5. Unpack door frame

6. Assemble door frame

Conducting an Enclosure Integrity Test

A Photo Summary

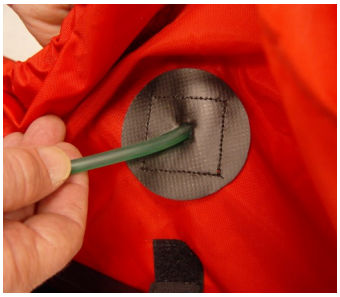
7. Place frame in door for trial fit.

8. If door closer blocks door frame it will have to be removed

9. Drop in cross bars

11. Unpack door panel

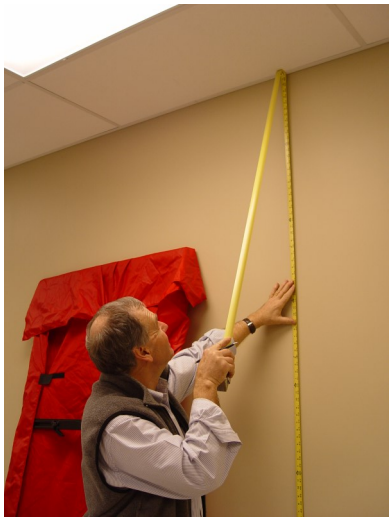
12. Install panel on door frame



13. Install green tubing through patch on door

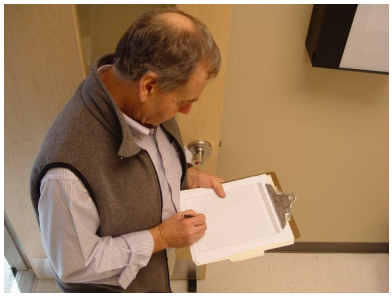
Conducting an Enclosure Integrity Test

A Photo Summary



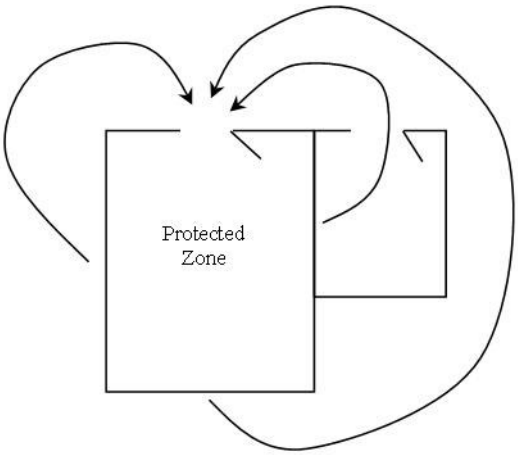
14. Measure the zone, here the maximum protected height

15. Measure height of equipment (hazard), the minimum protected height—also measure length and width of zone



16. Make sketch of zone and record measurements on the test data form

17. Enter zone data and measurements into EIT Quick Test 2001



18. Survey the area surrounding the test zone to assure a free return air path to fan.

Conducting an Enclosure Integrity Test

A Photo Summary

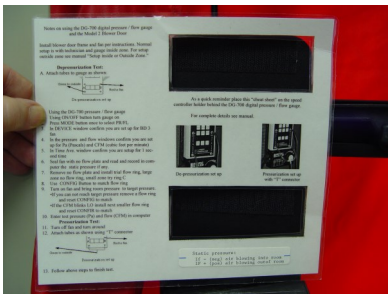
19. Install door frame with panel into the test door

20. Using toggle cams lock frame into the test door

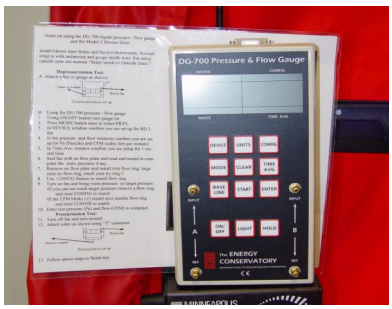
21. Extend green outside air pressure tube away from fan

22. Install fan into frame with white flow rings facing you

23. Clamp speed control board to cross bar



24. Place check list ("cheat sheet") in front of board and hold in place with the DG-700 digital gauge

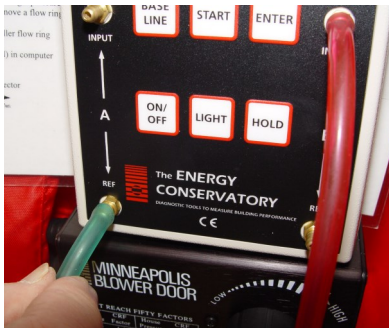


Conducting an Enclosure Integrity Test

A Photo Summary

25. Attach red fan pressure tube to top right nipple on gauge

26. Attach other end of the red fan pressure to nipple on fan



27. Attach green outside pressure tube to lower left nipple

28. Again make sure all tanks are disconnected

29. Have experience alarm technician, call out alarm system, silence building alarm, and cycle panel to activated any HVAC dampers connected to panel

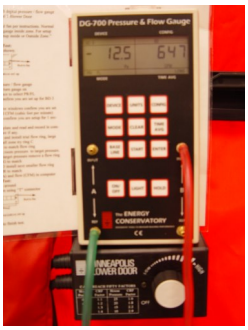
Conducting an Enclosure Integrity Test

A Photo Summary

30. Turn on gauge -see cheat sheet- With fan completely closed and all HVAC dampers closed measure the static (bias) pressure

Note: For detailed instructions for Bias (static) Pressure measurements and for De-Pressurization and Pressurization measurements for NFPA 2001/2004 and NFPA 2001/2012,2015 see *Conducting a NFPA 2001 Enclosure Integrity Test, Part 2* and *EIT Quick Test Manual.*

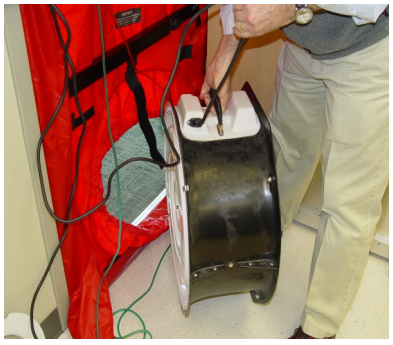
31. Remove blocking plate and flow rings “C”, “B”, “A” as necessary



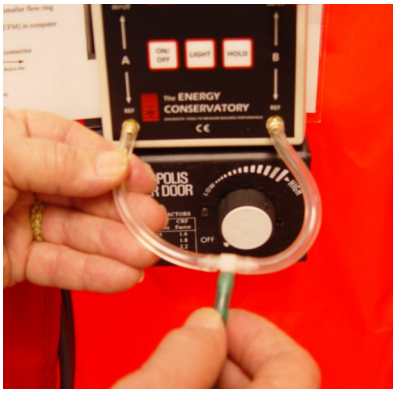
32. Turn on fan and bring up to pressure within the “target pressure range”—record pressure and flow

Note: For NFPA 2001/2004 Enclosure Integrity Test Procedure one set of measurements, flow and pressure are taken for both De-Pressurization and Pressurization.

For NFPA 2001/2012, 2015 Enclosure Integrity Test Procedures two sets of measurments, flow and pressure are taken for both De-Pressurization and Pressurization.see *Conducting a NFPA 2001 Enclosure Integrity Test, Part 2* and *EIT Quick Test Manual.*



33. Turn fan around



34. Connect “T” tube to lower nipples and to green outside pressure tube

35. Turn on fan and bring up to target pressure range—record

36. Enter all test data into EIT Quick Test which will calculate the predicted hold time