



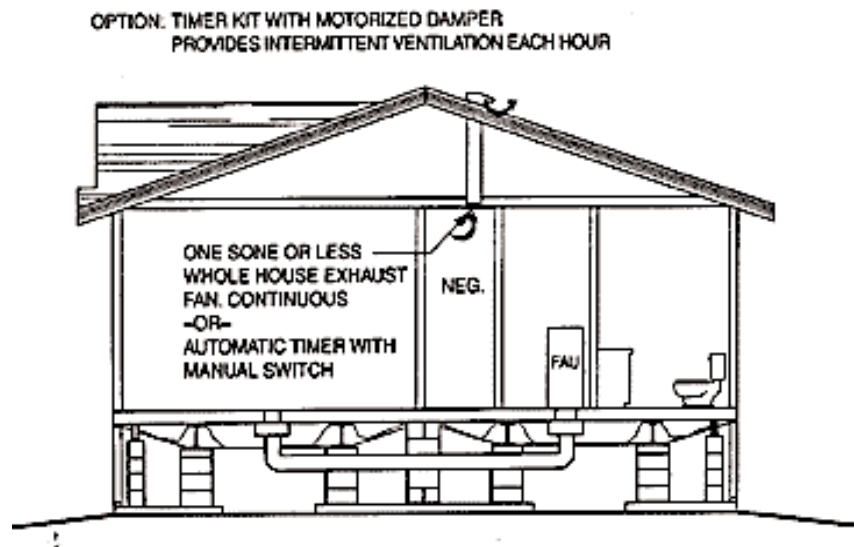
From 2004 Northwest Energy Efficient Manufactured Home Program In-Plant Inspection Manual

Ventilation and Heating

Figure 39 WHOLE HOUSE VENTILATION

- Tight, energy efficient homes need ventilation to help maintain acceptable indoor air quality. This is not optional
- Verify that the whole house fan is capable of ventilating the house at a rate of 0.035 cfm/square foot of floor area to meet HUD ventilation specifications and that it meets NEEM ventilation specifications in 4.3.2.1
- HUD and NEEM ventilation systems should be included in the DAPIA package.
- All whole house fans must have a sone rating no greater than 1.0
- Ensure that ventilation system instructions are included in the "important papers" envelope for future homebuyer.
- Check with a State Energy Office representative to find out what whole house systems meet the requirements. Seek approval of any new system on the market that hasn't already been approved for your plant.

See Technical Specifications section 4.3



4.3.2 Non-Heat Recovery Ventilation: This section is for designing and installing non-heat recovery ventilation systems for individual dwelling units that can provide the minimum ventilation airflows in Section 4.3.2.1 to the whole house, with spot ventilation for exhausting indoor contaminants from kitchens and bathrooms. (Refer to Figure 39 in Part I)

4.3.2.1 Whole House Minimum Ventilation Air Flows and Sone Ratings: Whole-house ventilation systems shall have a minimum capacity of 0.035 cfm/ft² of floor area. In no case shall the installed ventilation capacity be less than 50 cfm or greater than 90 cfm. Surface-mounted fans shall have a HVI sone rating of 1.0 or less, or as approved. Remote-mounted fans are exempt from the sone rating requirement. The SEO authorized inspector shall periodically test fan rated flows versus fan measured flow rate during SEO in-plant QA reviews.

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4.3.2.2 Backdraft Dampers: A tight-fitting backdraft damper, capable of closing, shall be installed in whole house fans.

4.3.2.3 Controls: The whole-house fan shall have automatic and/or manual controls.