



State of Ohio
Weatherization Program
Standards

Section	MOBILE HOME MECHANICAL SYSTEMS INSTALLATION
Subject	Mechanical Ventilation

EXISTING EXHAUST FANS 701-6.1

Install rigid or flexible vent duct to the outside of the house on each exhaust vent fan that is not vented to the outside. Ensure that the vent duct is properly-sized and pitched towards the outside, if possible. Flexible ducts must be installed tightly, with minimal sagging. Dryer vent ducts for clothes dryers must be smooth surfaced, rigid duct and are not to be insulated. Dryer vents must be sloped downward 1/8" towards the termination.

vent to outside
701-6.1a

Install a working damper and tighten or replace any loose connections on the exhaust vent pipe. Install a weather-protective termination fixture if one is not present.

**damper and
connection**
701-6.1b

If the exhaust fan is not operational or effective, repair or replace it if it is needed according to the OVERALLS Scale, Building Tightness Limits, or IAQ needs. If the exhaust fan is not operational or effective, and it is not needed according to the determinations mentioned above, do not work on it.

**determination
of need**
701-6.1c

The following standards assume that the exhaust fan is needed.

Use a rigid or flexible duct for any duct replacement and new exhaust fan installation. Use of smooth-surfaced, rigid ducts or non-combustible metal, flexible ducts are needed for clothes dryer vent duct replacements.

vent duct material
701-6.1d

Replace any switch or control that is not operational.

control
701-6.1e

Repair or replace any fan and switch wiring and connections that are improper.

power to fans
701-6.1f

Instruct the customer on the proper use of exhaust fans. Perform a worst-case draft test if units present are not sealed combustion (see 1506-4). Install passive venting if necessary.

proper use
701-6.1g

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NEW EXHAUST FANS 701-6.2

proper fan size
701-6.2a

Determine the proper fan size PMI in CFM for the area to be ventilated.

potential need
701-6.2b

Install a properly-sized exhaust fan where needed according to the OVERALLS Scale, Building Tightness Limits, or IAQ needs.

vent duct material
701-6.2c

Install rigid or flexible vent duct to the outside of the house on each exhaust vent fan. Ensure that the vent duct is properly-sized and is pitched downward towards the outside, if possible. Flexible ducts must be installed taut.

termination
701-6.2d

Install a weather-protective termination fixture to the outside end of the vent pipe.

proper use
701-6.2e

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Instruct the customer on the proper use of exhaust fans. Perform a worst-case draft test if units present are not sealed combustion (see 1506-4). Install passive venting if necessary.