



State of Ohio
Weatherization Program
Standards

Section **MECHANICAL SYSTEMS
INSTALLATION**

Subject **Other Combustion Appliances**

FUEL SUPPLY 301-3.1

Repair all gas leaks in combustion appliances and in the pipes leading to them. Replace all defective or illegal flexible range connectors.

gas leaks
301-3.1a

Replace shut-off valves to cookstoves and other combustion appliances if they are faulty. It is allowable, but not required, to install a shut-off valve to an appliance that does not have one.

gas shut-off valve
301-3.1b

OVEN VENT 301-3.2

If the oven is vented to the outside, repair or replace the vent pipe and fixtures if needed.

vent to outside
301-3.2a

GAS COOK STOVE EXHAUST FAN 301-3.3

If there is an existing exhaust fan that is vented to the outside, and it is incorrectly installed, repair or replace it. 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.

**exhaust fan, vented to
outside**
301-3.3a

CARBON MONOXIDE ACTION LEVELS 301-3.4

Clean and adjust or replace each burner that has a CO level higher than 25 ppm (see section 1506-2).

stove top burners
301-3.4a

The oven test is not necessary if the oven is vented to the outside.

oven vented to outside
301-.34b

If the oven/broiler is producing 25 ppm or more CO in the ambient air, or 100 ppm or above in the vent (that is not vented to the outside), clean and adjust the oven burners to reduce the CO below these levels (see section 1506-2).

oven/broiler testing
301-3.4c



If the CO output from the oven cannot be reduced to acceptable levels, testing of all other combustion appliances may continue.

continue testing
301-3.4d



No weatherization work may be started until the problem is corrected.

cook stove ventilation
301-3.4e



If repeated attempts prove unsuccessful in reducing the CO levels to those specified above, install a properly sized and rated ventilation system to exhaust the CO. Educate the customer on the proper use of the ventilation system.

CLOTHES DRYERS (ALL ENERGY SOURCES) 301-3.5

vent to outside
301-3.5a

All clothes dryers shall be vented outside to daylight.

dryer vent duct material (rigid-metal)
301-3.5b

Vent clothes dryers with a rigid, metal duct that has a smooth interior surface, is a minimum 30 gauge galvanized steel or aluminum and is equipped with a backdraft damper. Run duct with joints in the direction of the air flow. Do not fasten duct with screws or other fasteners that extend into the duct.

dryer vent duct material (flexible metal)
301-3.5c

Vent clothes dryers with a flexible, metal transition duct that is approved for use with the applicable energy source type. The preferred material for transition and exhaust duct is rigid metal. Install it in a manner that minimizes overall length, and is sufficiently supported to eliminate sagging.

dryer vent duct sizing (rigid metal & flexible-metal)
301-3.5d

If the diameter of the dryer vent duct is not at least the diameter of the appliance outlet, install one that is at least the diameter of the appliance outlet. Determine the length of a 4-inch diameter dryer vent duct. The maximum length shall not exceed 25 feet from the clothes dryer outlet to the termination point. If the length exceeds 25 feet, increase the duct diameter to 5". (A reduction in maximum length of 2.5 feet for every 45-degree bend and 5 feet for every 90-degree bend shall apply).