



FACT SHEET

R307-208 Outdoor Wood Boilers

Overview

The Utah Division of Air Quality (UDAQ) requirement, R307-208, was adopted as part of a package of rules designed to help minimize pollution along the Wasatch Front. Outdoor wood boilers contribute particulate matter (PM) emissions to the atmosphere. Regulations on these units were created to establish proper operating techniques in order to reduce PM emissions. These regulations cover prohibitions, visible emission limitations, and new boiler labeling.

Requirements

No person shall sell, offer for sale, supply, install, purchase, or transfer an outdoor wood boiler after May 1, 2013, unless it is EPA Phase 2 qualified wood boiler or EPA Phase 2 qualified wood pellet outdoor boiler in all regions of Salt Lake and Davis counties; all portions of the Cache Valley; all regions in Weber and Utah counties west of the Wasatch mountain range; in Box Elder County, from the Wasatch mountain range west to the Promontory mountain range and south of Portage; and in Tooele County, from the northernmost part of the Oquirrh mountain range to the northern most part of the Stansbury mountain range and north of Route 199. (See entire rule for all circumstances.)

New outdoor wood boilers are required to meet the following location requirements statewide:

- An outdoor wood boiler cannot be operated within 1,000 feet of a private or public school, hospital, or day care facility.
- A new residential outdoor wood boiler cannot be located less than 100 feet from the nearest property boundary line.
- A new commercial outdoor wood boiler cannot be located less than 200 feet from the nearest property boundary nor 300 feet from a property boundary of a residentially zoned property.

Utah Division of Air Quality

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Contact

(801) 536-4000

General Air Quality information, regulations, and contact information:
<https://deq.utah.gov/Divisions/daq/index.htm>

This fact sheet provides general information concerning the General Burning rule. See:
<https://rules.utah.gov/publicat/code/r307/r307-208.htm> for the entire rule.

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- A new outdoor wood boiler shall have a permanent stack extending five feet higher than the peak of any roof structure within 150 feet of the unit.
- Owners are required to burn clean wood in an outdoor wood boiler. Clean wood means wood that has not been painted, stained, or treated with any coatings, glues, or preservatives including but not limited chromated copper arsenate, creosote, alkaline copper quaternary, copper azole, or pentachlorophenol.
- The following is a list of prohibited fuels:
 - Unseasoned Wood Garbage or Yard Waste, Including Lawn Clippings
 - Tires
 - Glossy or Colored Paper
 - Materials Containing Plastic or Rubber
 - Waste Petroleum Products
 - Paints or Paint Thinners
 - Household or Laboratory Chemicals
 - Coal
 - Construction and Demolition Debris
 - Plywood, Particleboard, or Fiberboard
 - Oriented Strand Board
 - Manure
 - Animal Carcasses
 - Asphalt Products

Visible Emission Limits

Proper operation of these devices is required in order to meet the visible emission standard of 20% opacity during normal operation. The 20% opacity limit applies at all times except for an initial start-up period of 15 minutes, and 15 minutes in any three hour period for reloading the device. Opacity is a measurement of how much visibility is obscured by a plume of smoke.

New Boiler Labeling

A permanent label shall be affixed to all new outdoor wood boilers by the manufacturer, and shall be durable to last the lifetime of the unit. The label shall be affixed so it cannot be removed, is readily visible, and include the date of manufacture, model name or number, serial number, thermal output rating in BTUs per hour, and particulate emission rate in pounds per million BTU heat output.

Sole Source Exemption

An outdoor wood boiler cannot be operated on air quality action or alert days unless the unit has been registered with the UDAQ as the sole source of residential or commercial heating.