

Masonry Heater Definition

The Masonry Heater Association of North America
www.mha-net.org

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1 masonry heater, n — wood-burning devices that:

- 1.1** Are exempt from Title 40 of the U.S. Code of Federal Regulations (CFR) Part 60, Subpart AAA;
- 1.2** Are not cook stoves, boilers, furnaces, or pellet stoves as defined in 40CFR60, Subpart AAA;
- 1.3** Comply with the guidelines of ASTM E1602-08 Standard Guide for Construction of Masonry Heaters;
- 1.4** Are designed for closed-combustion-chamber operation;
- 1.5** Have enough thermal storage capacity to maintain no less than 50% of its maximum masonry-mass temperature for at least 4.0 hours either:
 - 1.5.1** after the maximum masonry-mass temperature has been reached, or
 - 1.5.2** after the end of an emissions and/or thermal efficiency test period, whichever is later;
- 1.6** Produce an emissions factor of not more than 6.0 g/kg when operated in accordance with The Masonry Heater Association of North America Standard for Test-Fueling Masonry Heaters and sampled in accordance with ASTM E2515, Standard Method for Measuring Particulate Emissions Using a Dilution Tunnel; and
- 1.7** Generate a minimum HHV thermal efficiency of 44% OR a minimum LHV thermal efficiency of 50% when tested in accordance with the Masonry Heater Association of North America Standard Method for Measuring Masonry Heater Thermal Performance. (the difference in magnitude between the HHV and LHV values is based on 20% DB fuel moisture and 7.3% fuel hydrogen content).