

Grass Heating Appliances

The following charts list a good assortment of available heating appliances with the ability to burn grass pellets. Most corn burning appliances will burn grasses due to their ability to handle the higher ash content. Europe and Canada are more advanced in heating with Biomass products. This is due to economics. European Countries have made great advances in pellet appliances. In Demark and Austria 70+% of residential heating is accomplished with pellet boilers and stoves. This market is now starting to grow here in the America. 83% of #2 heating oil used in America is burned right here in the Northeast. This is the prime market for pellet heating. Grasses grow in 70days and most don't require fertilizer. A recent BERC Study <http://www.vsjf.org/assets/files/RFPs/VT%20Grass%20Pellet%20Feasibility%20Study%202010.pdf> has shown some grass pellets have the same or higher BTU rating per pound as wood pellets. There is an emerging market for grass pellets. Enviro Energy <http://www.enviroenergy.com/> was one of the first to produce grass pellets. Ernst Conservation Seeds <http://www.ernstseed.com/biomass/> has a new pellet plant opening summer 2012. The grass burning appliance market is growing and the high cost of Propane and Heating Oil will certainly help.

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Brand	Type of Heating Appliance	Information Link	Designed to Burn Grass/Hay Pellets	Comments
LEI BioBurner	Residential/Small Commercial Boiler	http://www.leiproduct.com/index.html	Yes	100K,250K,500K BTU American Made
Brandelle Biomass BX Boiler	Residential/Small Commercial Boiler	http://brandellebiomass.com/index.html	Yes, up to 10% ash Auto ash removal	Ongoing ASME Certification for US sales
LST Energy	Residential/Small Commercial Boiler	http://lst-energy.com/	Yes, Auto ash removal	Waiting for ASME Certification for US sales
Woodpecker Energy	Residential/Small Commercial Boiler	http://www.woodpeckerenergy.co.uk/biomass-boilers	No, but adaptable Auto ash removal	Shows Promise, ongoing grass testing
Froling P4 Pellet Boiler	Residential/Small Commercial Boiler	http://www.froeling.com/us/products/pellet/froling-p4-pellet.html	No, but adaptable Auto ash removal	Shows Promise, ongoing grass testing
Guntamatic Powercorn	Residential/Small Commercial Boiler	http://www.treco.co.uk/guntamatic/	Yes, Auto ash removal	Ongoing ASME Certification for US sales
Linka Boiler	Commercial Boiler	http://linka.dk/content/us/plant_types/hot_water_plant/straw_60_%E2%80%93_1500kw	Yes, Full Bales and Pellets	200K BTU and larger
Max Ox Blue Flame	Residential and Commercial	http://gototalenergy.com/	Yes, Max Ox	New Max Ox Chipmunk

	Boiler		Blue Flame	Shows Promise ongoing grass testing
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Harman Central Heating	Residential Boiler and Furnace	http://www.harmanstoves.com/Browse/Central-Heating.aspx	Yes, Up to 50% grass/corn	American Made 3 models
Central Boiler	Residential/Small Commercial Boiler	http://www.maximheat.com/	Yes	American Made
A-Maize-N-Heat	Residential Boiler and Furnace	http://www.cornheat.com/ http://www.ldjamaizeingheat.com/index.php?option=com_frontpage&Itemid=1	Yes	American Made
St Croix	Multi Fuel Furnace	http://stcroixstoves.com/multi-fuel-furnaces.php	Yes	American Made 2 Models
US Stove Co	Residential Furnace	https://www.usstove.com/index.php?route=product/product&path=308&product_id=1076	Yes	American Made
Enviro	Multi fuel Pellet Stoves	http://www.enviro.com/fireplace-products/pellet/freestanding-fireplace.html	Yes	3 Models
Harman Pellet	Corn Stove	http://www.harmanstoves.com/ProductFinder.aspx?bid={22EE58FF-A75F-481B-ACFF-598709444741}#	Yes	1 Model PC45 Others burn up

Stoves				to 50% grass
US Stove Co	Multi fuel Pellet Stoves	https://www.usstove.com/index.php?route=product/category&path=308	Yes	American Made 3 Models
Cumberland Stove Works	Multi Fuel Pellet Stove	http://www.cumberlandstoveworks.com/	Yes	American Made

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Bixby Energy	Multi Fuel Pellet Stove	http://www.pelletstovefires.com/bixby-pellet-stoves.html	Yes	American Made
Quadrafire MT-Vernon-AE	Multi fuel Pellet Stoves	http://www.quadrafire.com/en/Products/MT-Vernon-AE-Pellet-Stove.aspx?page=Specifications	Yes	American Made
St Croix	Multi Fuel Pellet Stoves	http://stcroixstoves.com/multi-fuel-stoves.php	Yes	American Made 5 Models