

The world's **finest** wood pellet boiler.



**MIESYS**
MAINE ENERGY SYSTEMS

The central heating systems of tomorrow are here **today.**

MESys AutoPellet and Convertible boilers are heating homes and buildings from Maine to Alaska. Built in Bethel, Maine, for the U.S. market, the licensed boiler design was acquired from ÖkoFEN, the world's leader in automatic wood pellet boiler design and technology since 1989.

MESys boilers are clean, affordable, reliable and effortless to operate.

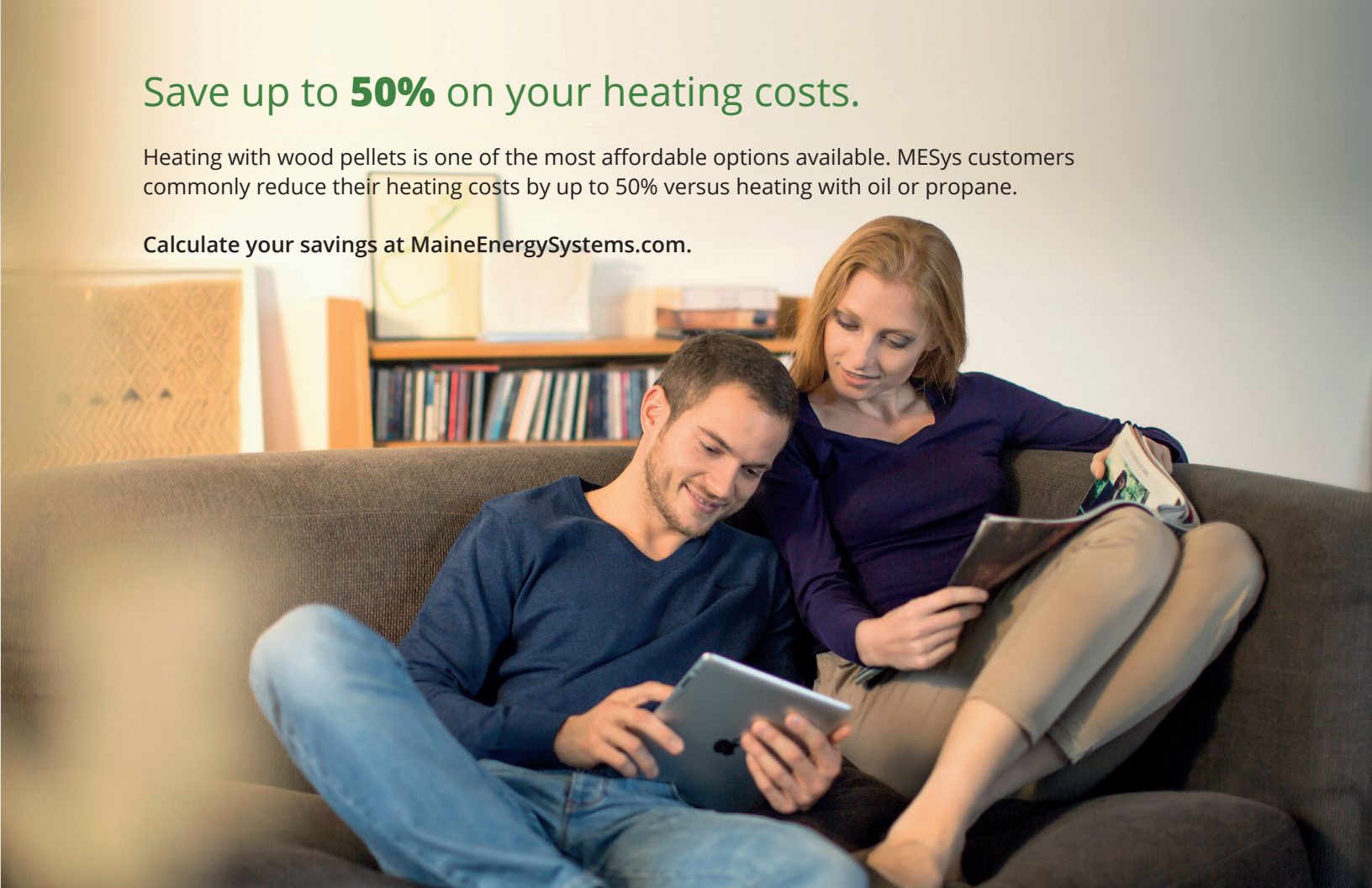
Join the thousands saving tons on good clean fuel.



Save up to **50%** on your heating costs.

Heating with wood pellets is one of the most affordable options available. MESys customers commonly reduce their heating costs by up to 50% versus heating with oil or propane.

Calculate your savings at MaineEnergySystems.com.





Wood pellet **energy.**

Wood pellets are made either from the shavings or sawdust from other wood manufacturing processes or from low-grade round wood. The wood is dried, shredded, and then forced under high pressure through the holes in a die, much like how spaghetti is made.

There are several wood pellet mills in the region producing premium quality pellets from a supply of sustainably harvested wood. Wood pellets are a long-term solution to our fossil fuel dependency.

Bulk wood pellet **delivery.**

You don't handle your oil or propane and with our fully-automated system, you'll never touch your pellets either. Delivered directly to your home or business, bagless, by a delivery truck the same way as oil or propane.

A typical home requires just 3 deliveries annually.



AutoPellet

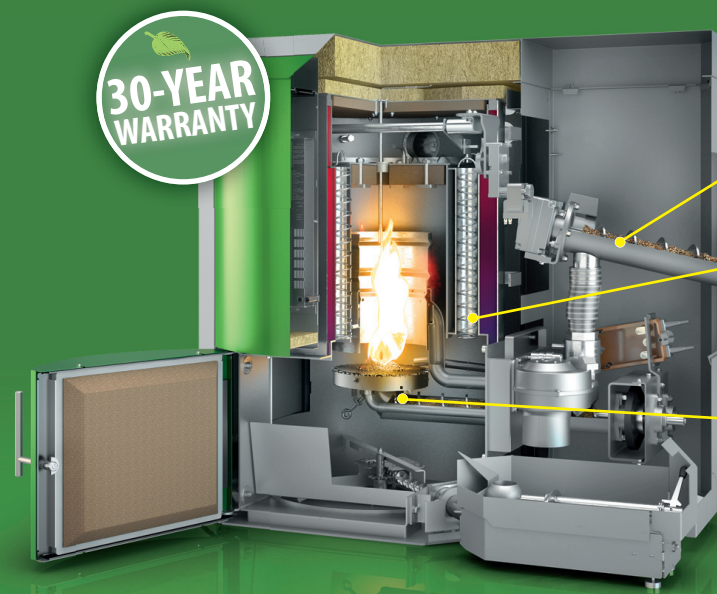
Central heat and hot water.

The MESys AutoPellet boiler is the world's finest fully-automatic wood pellet central heating system. The AutoPellet is a stand-alone system and is designed to meet the heat and domestic hot water demands of households, businesses, institutions and municipal buildings.



"We had been researching pellet boilers when we discovered the MESys AutoPellet. The AutoPellet exceeded all others in performance and reliability and has a long track record in the heating industry. We had grown tired of paying for oil and are now saving \$1,000 annually on our heating costs. The easy emptying of the ash container, 2 - 3 times per year, is all the effort required by us. The folks at MESys have become like an extended family."

— The Tremblay Family, Berlin, New Hampshire



Automatic Auger or Vacuum Fuel Feed
From the pellet mill to the burner, you never see or touch the fuel.

Automatic Heat Exchanger Cleaning
Heat exchanger tubes are automatically cleaned daily, only requiring annual cleaning. There is no need to shut or cool down the MESys AutoPellet for routine cleaning.

Bottom Fed Burner
Our bottom fed burner design eliminates emptying ash from the burn chamber for a restart, this results in no by-product build up. After a period of low-demand, only the application of air is commonly necessary to restart.

AutoPellet Features:

- Automated Three-Way Ash Removal
- ASME Certified (where necessary)
- OMNI Listed to UL Standards
- Up to 87.7% Efficient
- Two-Stage Combustion
- Stainless Steel Combustion Chamber
- Digital LCD Controller Interface
- 30-Year Warranty
- Bottom Fed Burner
- Programmable Logic Controller for Modulated Heat Output
- External Detachable Ash Container
- Automatic Electric Ignition
- Burner Mountable on Left or Right
- Automatic Heat Exchanger Cleaning
- Burnback Fire Prevention Through Air Tight Spring Actuated Valve
- Auto Auger or Vacuum Fuel Feed
- Combustion Sensor (Monitors Efficiency)
- Pressure Sensor and Flue Gas Fan Safely Control Draft

Two **hands-free** fuel feed options.

AutoPellet Auger Fuel Feed System

The Auger Fuel Feed System is the most economical fuel feed option and is used when pellet storage can be located adjacent to the AutoPellet boiler.

With the auger system, the FlexILO can be installed with a 20° to 30° pivot on three different sides. The AutoPellet boiler can be fitted to the right or left.



AutoPellet Vacuum Fuel Feed System

Pellets can be fed from the FlexILO or outdoor silo to the AutoPellet boiler using the Vacuum Fuel Feed System. This system is used where the auger system is unsuitable due to room layout restrictions, long distances or difficult routes.

The vacuum system allows the pellet storage to be separated from the boiler by up to 66 feet.



AutoPellet = automatic ash removal.

The MESys AutoPellet boiler is designed to make your life easier. Pellet ash is automatically removed from the boiler and compressed into the integrated ashbox. The ashbox can hold ash from 2 tons of burned pellets before emptying. There is no need to shut the system down for ash removal or wear heat-protective mitts.



Detach ashbox & lift



Empty into storage container



Return to boiler

With a simple twist of the lever, the ashbox is detached from the boiler. The ashbox is then placed on top of the storage container, emptied, and returned back to the boiler.

This is a quick, clean and easy task and the ash is great for your lawn or garden.





Fuel storage for **any** application.

MESys offers several pellet storage options to fit your space and needs. With our fully-automatic systems, you will never see or touch the pellet fuel. Many sizes and configurations are available, these options ensure safe, automatic, reliable movement of the wood pellets from bulk storage to the boiler.



Outdoor silo storage options.

In addition to the FleXILO, MESys also offers a full line of outdoor silo options. The outdoor silo is ideal for applications requiring large quantities of pellet fuel such as municipal buildings, institutions, schools or commercial projects.

Multiple FleXILO sizes and options.

FleXILO storage bags are fully integrated into the MESys system and are well suited for indoor spaces where space is limited. Two different fuel transport systems, auger and vacuum, allow bulk pellet storage to be located next to or up to 66 feet from the boiler.



FleXILO Compact (+60% Capacity)

Basement Height: 7.1 feet

Model	Capacity	W x D x H (feet)
KGT1814	3.0 - 3.6 tons	5.90 x 4.60 x 6.40
KGT2618	5.5 - 6.8 tons	8.50 x 5.90 x 6.40
KGT2620	6.0 - 7.7 tons	8.50 x 6.50 x 6.40
KGT2626	8.3 - 9.9 tons	8.50 x 8.50 x 6.40



FleXILO Classic

Basement Height: 7.1 feet

Model	Capacity	W x D x H (feet)
S110H	0.5 tons (hand fill)	3.61 x 3.61 x 4.43
S160H	2.2 - 2.8 tons	5.48 x 5.48 x 6.40
S190H	3.0 - 3.5 tons	6.64 x 6.46 x 6.40
S220H	3.4 - 4.0 tons	7.45 x 7.45 x 6.40
S280H	5.0 - 6.0 tons	9.42 x 9.42 x 6.40
S2819H	3.9 - 4.4 tons	9.42 x 6.46 x 6.40
S2822H	4.6 - 5.3 tons	9.42 x 7.45 x 6.40

StagedSystem

Efficiency for large heating applications.

MESys AutoPellet boilers can be staged in series for large-scale heating applications. Savings are likely to be substantial for Staged Systems providing up to 765 MBtu / hr.

Staged Systems run more efficiently than a single large boiler system because individual AutoPellet boilers can be added or removed from service automatically, ensuring that at lower heat requirements the system is running at high efficiency. Large single boilers spend most of their life cycle operating at lower heat outputs than designed for and offer substantially lower efficiencies in the field because of this.



The MESys Pelletronic control system is used to stage boilers and automatically splits the amount of up-time between boilers during off-peak heating, ensuring the longest possible life cycle of each individual boiler in the Staged System.

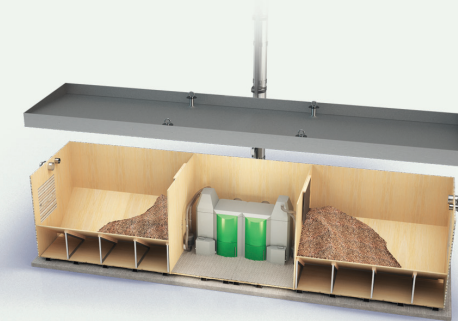


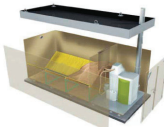

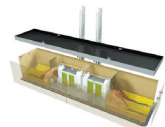
EnergyBox

Complete self-contained heating.

The MESys Energy Box is a complete self-contained heating system suitable for almost any application. Each Energy Box contains wood pellet storage, MESys AutoPellet boiler(s), flue and fuel supply system.

An ideal solution for municipalities, school districts and commercial applications where indoor space is limited, the Energy Box is also applicable for temporary buildings as the entire unit can easily be relocated to another site with minimal work. The Energy Box is delivered, ready for installation, by truck and is connected to the heating system in a matter of hours.



Type I	Type II	Type III-IV
		
191 MBtu / hr	245-382 MBtu / hr	492-765 MBtu / hr
20.3 x 8 x 8.7 feet	33.8 x 8 x 8.7 feet	40.4 x 8 x 8.7 feet
1 MESys AutoPellet Boiler	2 MESys AutoPellet Boilers	3 or 4 MESys AutoPellet Boilers
9.5 Ton Pellet Storage	15 Ton Pellet Storage	14 Ton Pellet Storage

MESys Energy Boxes can also be customized to fit your heating needs.

Convertible

Hand-fed **easy** first step.

The MESys Convertible boiler is the ideal solution for areas where bulk pellet delivery is unavailable. The Convertible is a standard MESys AutoPellet boiler designed to be bag fed, by hand, with about 300 pounds of pellets.

Unlike many other wood pellet boiler systems, the Convertible allows you to start with a base model, at entry level pricing, and upgrade to a fully-automated system once bulk pellet delivery becomes available in your area.



Convertible Options



Automatic Ash Removal

With the addition of Ash Compression, pellet ash is removed from the boiler automatically and compressed into a specially designed container.

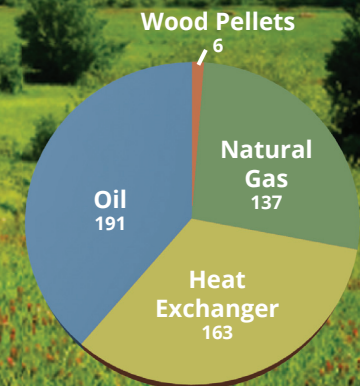


Vacuum Turbine Fill Unit

The MESys Convertible easily converts from a manual-fed pellet boiler to automatic-fed pellet boiler with the addition of the Vacuum Turbine Fill Unit.

Environmentally **responsible**.

Trees use carbon dioxide from their environment as they grow. The carbon retained over a tree's lifetime is released back into the carbon cycle whether the timber decomposes or burns. By switching to a MESys wood pellet boiler from an oil system, you will reduce your heating carbon footprint by up to 86%.



CO₂ Emissions lb / MMBtu



Duratherm Window Corporation **switched.** And now you know.

"Sustainability is a large part of our overall business strategy. Our goal was to be fossil fuel free by 2015 and once we learned about the MESys AutoPellet, all the pieces began falling into place. We were able to completely remove our oil system, including a 5,000 gallon buried oil tank, and the MESys system was installed right into our existing heating zones. We are now saving about \$15,000 annually on our heating costs and the MESys AutoPellet is maintenance free and as automated as our old oil system."

— **Tim Downing, Duratherm Window Corporation**

500+ trained and certified installation contractors.

Our wood pellet boiler specialists have matched hundreds of happy customers to the appropriate MESys installation contractor. We have trained over 500 plumbing and heating professionals to install, configure, and maintain MESys boilers.

Contact us to find the contractor that's right for you.

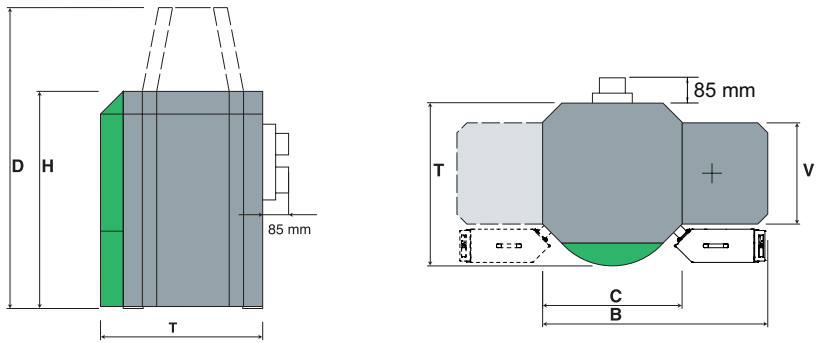
Contractor coverage areas:

- Alaska
- Canada (Northwest Territory)
- Connecticut
- Maine
- Massachusetts
- New Hampshire
- New York
- Pennsylvania
- Rhode Island
- Vermont



AutoPellet

Technical Specifications



	Boiler Model	PE(S)12	PE(S)15	PE(S)20	PE(S)25	PE(S)32	PES36	PES48	PES56
	Boiler-rated BTU/hr	41,000	51,000	68,300	85,300	109,500	123,000	164,000	191,000
C	Boiler width	27.5"	27.5"	27.5"	29.75"	29.75"	34"	34"	34"
B	Total width	44.5"	44.5"	44.5"	46.75"	46.75"	51"	51"	51"
H	Boiler (auger) height	43"	43"	43"	51"	51"	61"	61"	61"
D	Boiler (vacuum) height	55"	55"	55"	63"	63"	73"	73"	73"
T	Boiler depth	32"	32"	32"	34.25"	34.25"	39"	39"	39"
V	Burner casing depth	20"	20"	20"	20"	20"	20"	20"	20"
	Water supply/return dimension	1"	1"	1"	1.25"	1.25"	2"	2"	2"
A	Water supply/return height (connection)	35.75"	35.75"	35.75"	43.75"	43.75"	52"	52"	52"
R	Flue diameter	5"	5"	5"	6"	6"	7"	7"	7"
E	Flue height (connection)	25.5"	25.5"	25.5"	33.25"	33.25"	41"	41"	41"
	Water capacity (gal)	15 gal	15 gal	15 gal	23.6 gal	23.6 gal	30.6 gal	30.6 gal	30.6 gal
	Overall weight (lbs)	631	631	631	756	756	1,120	1,120	1,120
	Boiler Footprint	Footprint I			Footprint II		Footprint III		

Start **saving** on day one.

MESys has several financing options providing homeowners with the opportunity to quickly and affordably finance wood pellet boiler installations. With these options, MESys boilers commonly pay for themselves and save thousands of dollars, starting on day one.

Typical program features:

- Loans are approved within 12 hours
- Finance projects in just 3-4 days (funds available in 11-12 days)
- No equity required
- No appraisal necessary
- Secured loan up to \$25,000 for a single family home
- Low fixed rates
- Flexible payment terms of up to 20 years with no prepayment penalties
- Interest may be tax-deductible
- 100% up-front funding
- Options for both primary or vacation homes

Learn more at MaineEnergySystems.com or call 207-824-NRGY (6749).





MAINE ENERGY SYSTEMS

Cheaper. Cleaner. Closer.

207-824-NRGY (6749)
MaineEnergySystems.com

Certified Installation Contractor:

Made in
Maine