

**Total comfort and
reliable operation**

- ✓ **Highest level of comfort**
 - Fully automatic fuel feed
 - Maintenance-free operation
 - Stable room temperatures
- ✓ **Touch control panel** with Internet connection
- ✓ **Highly efficient and clean combustion**



Fully-Automatic Wood Pellet Central Heating

RESIDENTIAL - COMMERCIAL - MUNICIPAL - INSTITUTIONAL





Congratulations!

You have taken an important step towards reducing your heating costs and your carbon footprint – the right thing for your wallet and for our earth!

When you switch to a MESys pellet system, you won't be sacrificing the convenience of just turning your existing thermostat. With the AutoPellet, ash is automatically cleaned and removed from the system and compressed into a specially designed container.

Heating your home or business with the AutoPellet is one of the most convenient and environmentally friendly options available. MESys customers commonly reduce their heating costs over time when compared to heating with the price volatility of oil or propane. More than a thousand of our customers and certified installers / dealers have helped reduce heating oil use by 1,500,000 gallons since our founding in 2008. These customers have saved more than \$2,000,000 as they moved North America along the road to energy independence.

We have several financing options that can provide you with the opportunity to quickly and affordably finance AutoPellet installations. Financing typically requires no equity in your home, is FHA insured and interest may be tax deductible to you.

Be sure to contact one of our manufacturers' representatives to discuss heating your home or business with the world's finest fully-automatic wood pellet central heating system. We look forward to hearing from you soon!

Happy heating,

A handwritten signature in black ink that reads "Les Otten". The signature is written in a cursive, flowing style.

Les Otten
Co-Founder and CEO

Why MESys?

LOCALLY BUILT



Maine Energy Systems (MESys) wood pellet boilers and furnaces are heating homes and businesses from Maine to the Arctic Circle. Built in Bethel, Maine, for the North American market, the licensed boiler design was acquired from ÖkoFEN, the world's leader in automatic wood pellet boiler design and technology since 1989.

RENEWABLE PELLET FUEL



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%.

HOMES TO HIGH SCHOOLS



The MESys AutoPellet line of heating systems is effortless to use and is ideal for central heating and with some systems, domestic hot water. AutoPellet's are fully-automated standalone systems designed to meet the demands of households, businesses, municipal buildings and institutions.

EASE OF USE



The MESys AutoPellet boiler was 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.

QUALITY FROM AUSTRIA



Our Austrian design partner, ÖkoFEN is renowned for innovation and high quality engineering. Thoughtfully designed and skilfully manufactured products are the result of a national commitment to high standards of education and training and a passion for research and development. This gives technology from Austria a desirability all of its own and MESys / ÖkoFEN products are no exception.

STATE-OF-THE-ART TECHNOLOGY

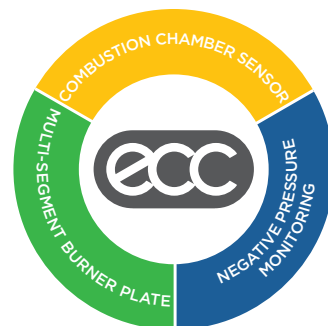


MESys systems are always at the cutting edge of technology. Our engineers and partners are focused on continuous technological advancement which has led to breakthroughs in optimised combustion, efficient condensing technology and user-friendly systems like the AutoPellet touch screen heating controller.

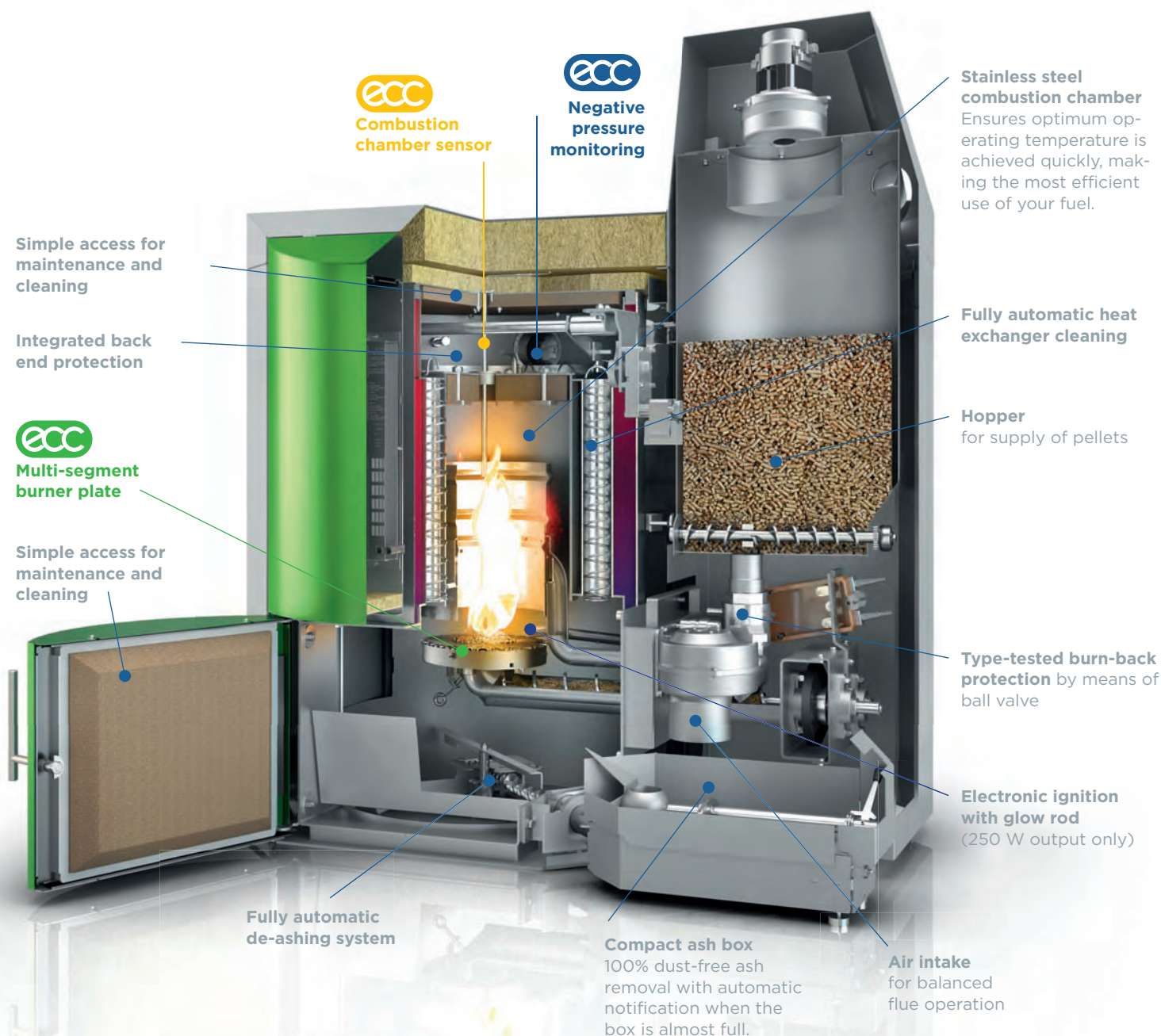
AutoPellet

Fully-Automatic Wood Pellet Boiler

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



EFFICIENT COMBUSTION CONTROL



ecc
Combustion chamber sensor

ecc
Negative pressure monitoring

Simple access for maintenance and cleaning

Integrated back end protection

ecc
Multi-segment burner plate

Simple access for maintenance and cleaning

Fully automatic de-ashing system

Compact ash box
100% dust-free ash removal with automatic notification when the box is almost full.

Stainless steel combustion chamber
Ensures optimum operating temperature is achieved quickly, making the most efficient use of your fuel.

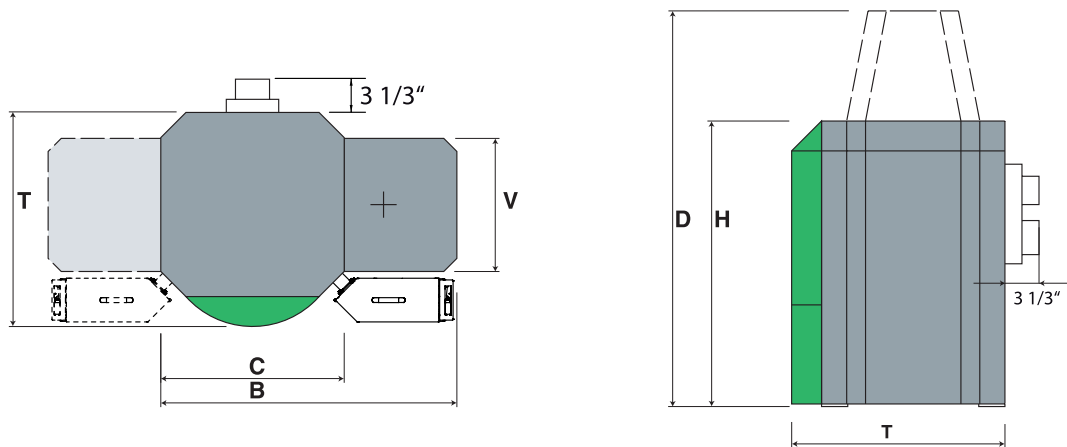
Fully automatic heat exchanger cleaning

Hopper
for supply of pellets

Type-tested burn-back protection by means of ball valve

Electronic ignition with glow rod
(250 W output only)

Air intake
for balanced flue operation



AUTOPELLET TECHNICAL DATA

Boiler - Type	PE(S)12	PE(S)15	PE(S)20	PE(S)25	PE(S)32	PES36	PES48	PES 56
Footprint	I			II		III		
Boiler-rated power BTU/hr	41,000	51,000	68,300	85,300	109,500	123,000	164,000	191,000
B - Total width	44 1/2"	44 1/2"	44 1/2"	46 3/4"	46 3/4"	51"	51"	51"
C - Boiler width	27 1/2"	27 1/2"	27 1/2"	29 3/4"	29 3/4"	34"	34"	34"
H - Auger boiler height	43"	43"	43"	51"	51"	N/A		
D - Vacuum boiler height	55"	55"	55"	63"	63"	73"	73"	73"
T - Boiler depth	32"	32"	32"	34 1/4"	34 1/4"	39"	39"	39"
V - Burner casing depth	20"							
Water supply/return Ø	1"	1"	1"	1 1/4"	1 1/4"	2"	2"	2"
A - Water supply/return height (connection)	35 3/4"	35 3/4"	35 3/4"	43 3/4"	43 3/4"	52"	52"	52"
E - Flue height (connection)	25 1/2"	25 1/2"	25 1/2"	33 1/4"	33 1/4"	41"	41"	41"
Overall Weight (lbs)	631	631	631	756	756	1,120	1,120	1,120
Water capacity (gal)	15	15	15	23.60	23.60	30.60	30.60	30.60
Fire vault temperature	1470 - 2000 °F							
Flue pipe diameter	6"	6"	6"	6"	6"	7"	7"	7"
Chimney diameter	as per chimney calculation							
Chimney construction	Steel or ceramic lined. damp resistant							
Electrical connection value	230 VAC, 50 Hz, 15 A							

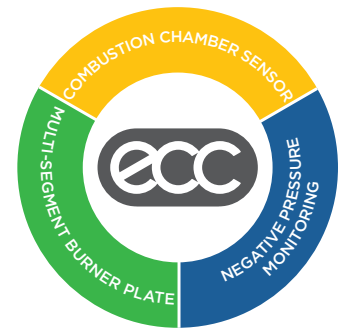
Please pay attention to technical changes!

Convertible

Hand-Fed Wood Pellet Boiler

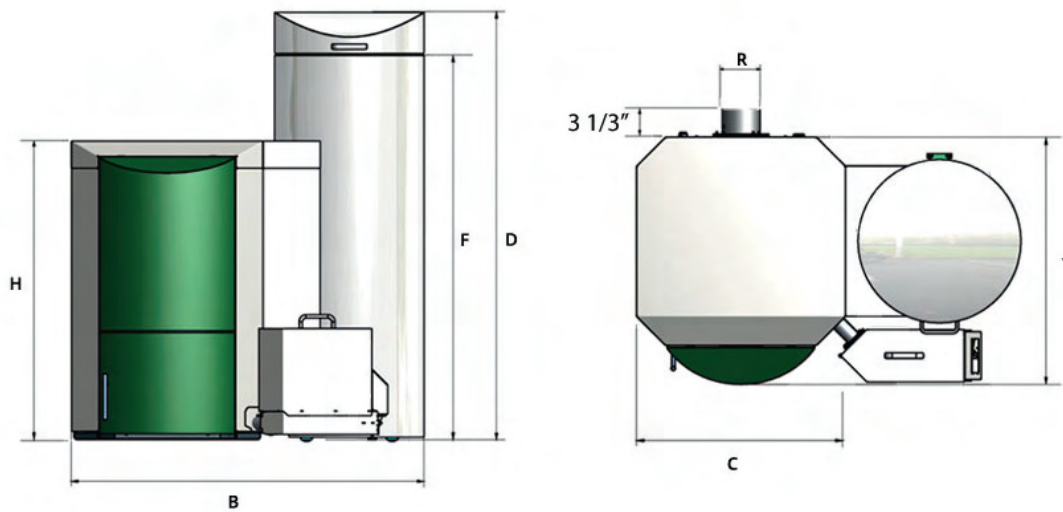
The MESys Convertible boiler is the ideal solution for areas where bulk pellet delivery is unavailable. The Convertible is a standard MESys AutoPellet boiler designed to be bag fed, by hand, with about 300 pounds of pellets.

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.



EFFICIENT COMBUSTION CONTROL





CONVERTIBLE TECHNICAL DATA

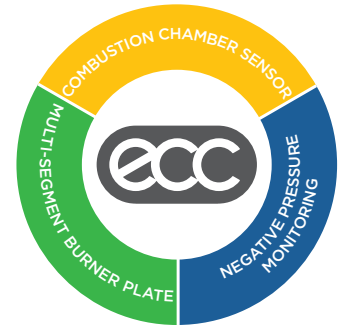
Boiler - Type	PEB12	PEB15	PEB20	PEB25	PEB32
Footprint	I		II		
Boiler-rated power BTU/hr	41,000	51,000	68,300	85,300	109,500
B - Total width	51"	51"	51"	53 1/2"	53 1/2"
C - Boiler width	27 1/2"	27 1/2"	27 1/2"	29 3/4"	29 3/4"
H - Boiler height	43"	43"	43"	51"	51"
D - Storage container height	62"	62"	62"	62"	62"
F - Storage container height (w/o lid)	57"	57"	57"	57"	57"
T - Boiler depth	32"	32"	32"	34 1/4"	34 1/4"
Water supply/return Ø	1"	1"	1"	1 1/4"	1 1/4"
Water supply/return height (connection)	35 3/4"	35 3/4"	35 3/4"	43 3/4"	43 3/4"
Flue height (connection)	25 1/2"	25 1/2"	25 1/2"	33 1/4"	33 1/4"
Overall Weight (lbs)	915	915	915	1,070	1,070
Water capacity (gal)	15	15	15	23.60	23.60
Fire vault temperature	1470 - 2000 °F				
R - Flue pipe diameter	6"	6"	6"	6"	6"
Chimney diameter	as per chimney calculation				
Chimney construction	Steel or ceramic lined. damp resistant				
Electrical connection value	230 VAC, 50 Hz, 15 A				

Please pay attention to technical changes!

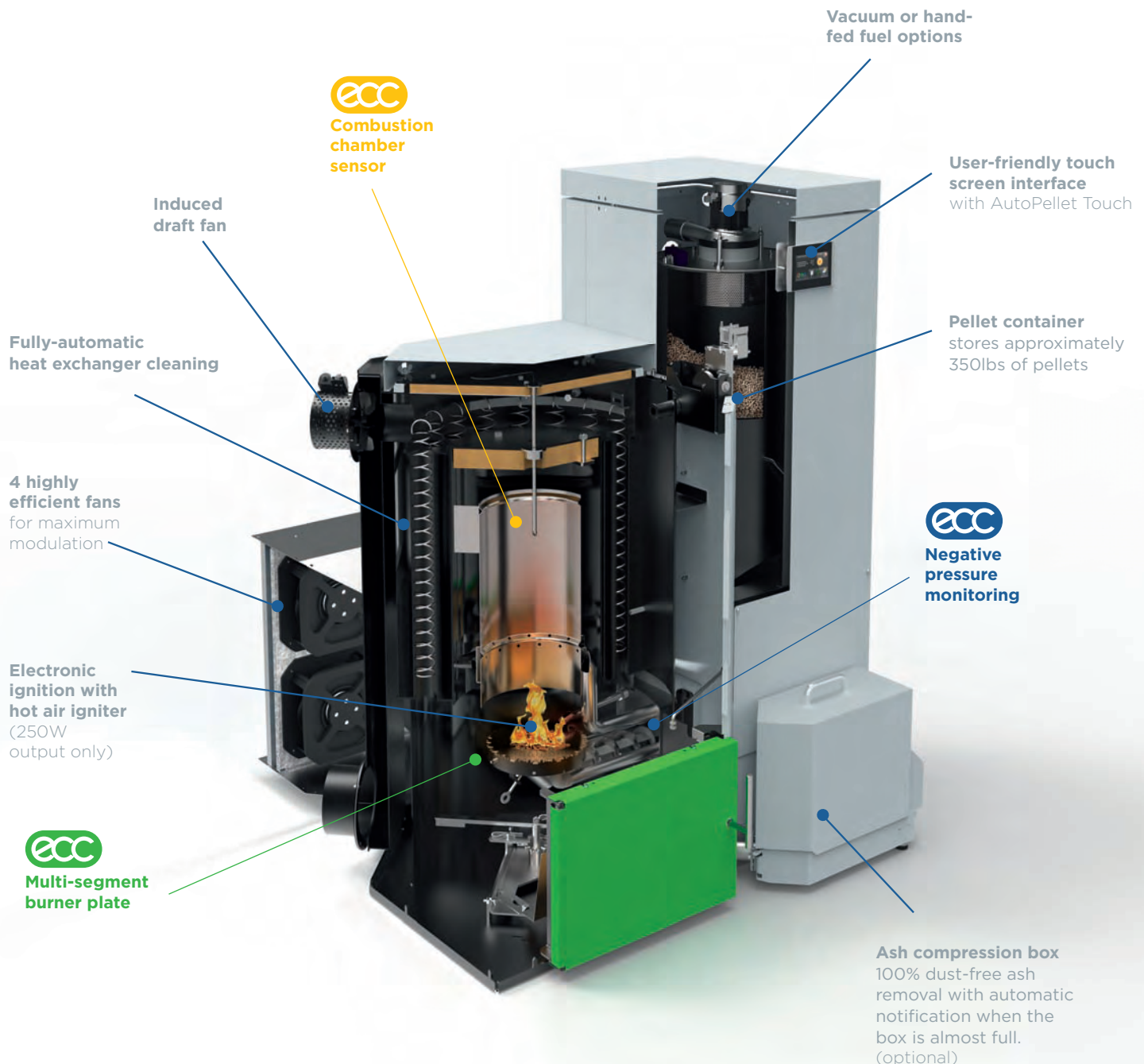
AutoPellet Air

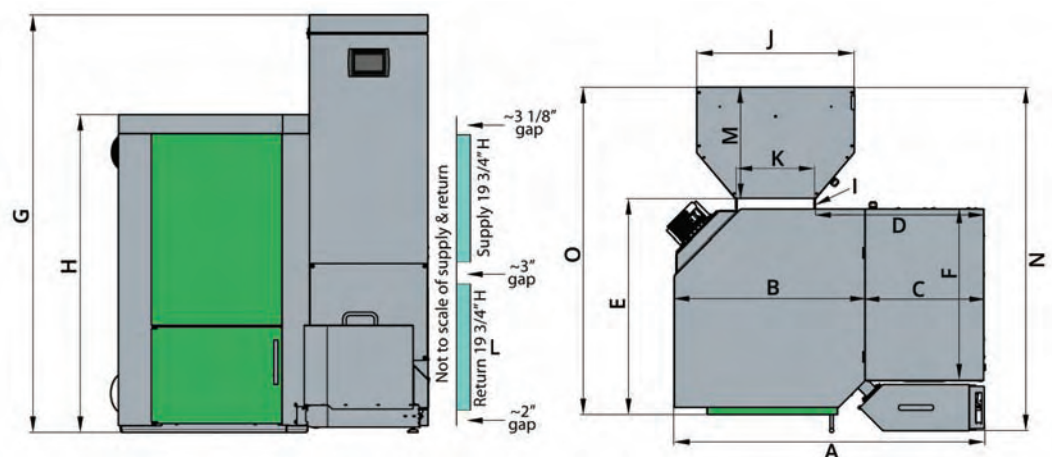
Warm Air Wood Pellet Furnace

The MESys AutoPellet Air is the world's finest fully-automated warm air wood pellet furnace. The AutoPellet Air is a standalone system and is designed to meet the heat demands of households and many commercial and municipal buildings.



EFFICIENT COMBUSTION CONTROL



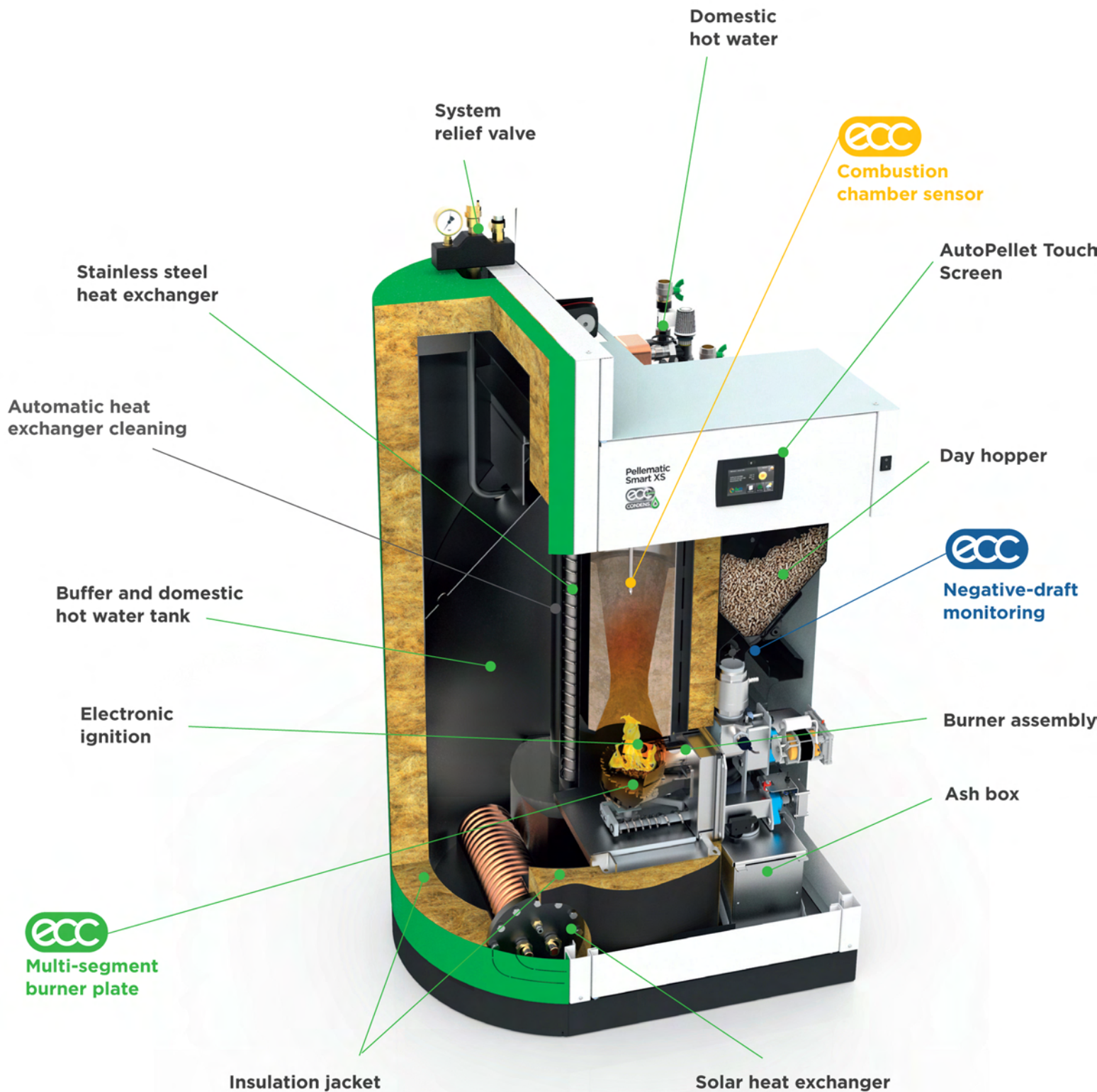


AUTOPELLET AIR TECHNICAL DATA

FURNACE (without fan)		PEF(B)(S)28
Furnace-rated power		96,000 BTU / hr
A - Width - total		46 1/4"
B - Width - furnace		28 9/16"
C - Width - pellet container or vacuum suction stem		17 13/16"
D - Distance to side of plenum		25 3/8"
E - Depth - furnace		32 5/8"
F - Depth - pellet container or vacuum suction stem		25 11/16"
G - Height - total		62 11/16"
H - Height - furnace		47 11/16"
I - Supply & return projections from steel		1 7/8"
I - Supply & return projections from top panel		1 9/16"
Flue height (connection)		6"
Flue diameter		6"
Overall crated weight		1,000 lbs
FAN		
J - Width		27 3/4" J -
K - Width - plenum exterior		11 13/16"
L - Height - plenum		19 3/4"
M - Depth		27 3/4" (includes extension to fan box)
FURNACE (with fan)		
N - Depth - total		62 9/16"
O - Depth - furnace with fan		60 3/8"

- Large and small scale projects
- Fully-automated pellet feed (manual fuel feed optional)
- Automatic ash removal and compression (Ash compression box)
- Automatic heat exchanger cleaning
- Internet connection for remote monitoring
- Touch screen graphic display
- 96,000 BTU /hr
- Long run times for higher efficiency - possible due to revolutionary modulation
- Newly designed furnace control for constant room temperature
- Virtually maintenance-free
- Easy installation

Pellematic Smart XS



Wood pellet condensing boiler

4-IN-1 HEATING SYSTEM



The Pellematic Smart XS uniquely combines a pellet condensing boiler including domestic hot water heating and heating circuit assembly with a solar heating system. The entire unit can be installed on only 9 sq. ft. of floorspace and flush with the wall on two sides.

PELLETS-SOLAR-HYBRID HEATING



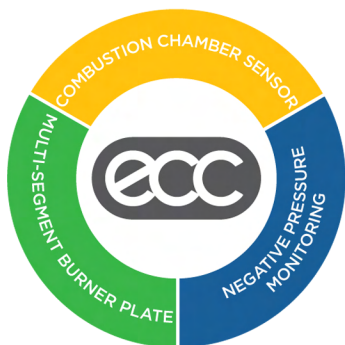
The Pellematic Smart XS is equipped with an integral solar heating system. Solar collectors make your heating system even more ecological and also saves you money. The controller ensures that solar energy is used optimally.

FULL COMFORT



The Pellematic Smart XS provides all the convenience of a fully automatic heating system. Extremely infrequent ash box emptying, only 1 to 3 times per year. Cleaning, ash removal and automatic ignition all work reliably and extremely quietly.

EFFICIENT COMBUSTION CONTROL



Multi-segment burner plate, negative pressure monitoring and combustion chamber sensor ensure low emissions, constantly high efficiency and optimum adaptation of heating output to the building's requirements.

CONDENSING TECHNOLOGY



Highest levels of efficiency. The latest generation of condensing technology extracts even more from every pound of wood pellets. Up to 15% more efficiency – as standard in all Condens models.

COMPACT DESIGN



The entire heating system only takes up 9 SQ FT of floorspace. Flow and return are located at the top. Flue gas and condensate drain connections can be at the side or the rear. The Pellematic Smart XS is designed to fit through any standard door.

Pellematic Smart XS

TECHNICAL DATA

Boiler Type		SmartXS 10	SmartXS 12	SmartXS 14	SmartXS 16	SmartXS 18
boiler - rated power	kW	10	12	14	16	18
boiler output - partial load operation	kW	3	4	4	5	6
width - boiler	mm	1040				
height - boiler	mm	1820				
depth - boiler	mm	850				
Tilted height	mm	730				
Heating circuit connections (at the boiler) Ø	in	3/4" IG				
Flow/Return connections Ø	DN	25				
Flue Ø	mm	min. 130mm according to chimney calculation				
Height of flue gas tube connection	mm	445				

FleXILO

Wood Pellet Storage

Maine Energy Systems offers several wood pellet storage options to fit your space and needs. With our fully-automatic boiler and furnace 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 heating system.

- Suitable for Bulk Pellet Delivery
- Many Capacities and Sizes
- Quick and Simple Installation
- Indoor or Outdoor Installation
- Vacuum Pellet Transport



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 6.60
KGT2618	5.5 - 6.8 tons	8.50 x 5.90 x 6.60
KGT2620	6.0 - 7.7 tons	8.50 x 6.65 x 6.60
KGT2626	8.3 - 9.9 tons	8.50 x 8.50 x 6.60



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 6.60
S190H	3.0 - 3.5 tons	6.46 x 6.46 x 6.60
S220H	3.4 - 4.0 tons	7.45 x 7.45 x 6.60
S280H	5.0 - 6.0 tons	9.42 x 9.42 x 6.60
S2819H	3.9 - 4.4 tons	9.42 x 6.46 x 6.60
S2822H	4.6 - 5.3 tons	9.42 x 7.45 x 6.60

*Basement height must be 8 feet to obtain maximum fill capacity.

Automatic Fuel Conveyance System

FLEXILO WITH VACUUM FEED SYSTEM



FleXILO and heating system can be up to 60' apart.



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.

Bulk Pellet Delivery



Bulk fuel delivery to your home or business – just like oil or propane.

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.

“

“When it came time to replace the boilers for one of our largest buildings (about 41,000 square feet) on campus in 2010, The White Mountain School explored alternatives to oil and decided to replace the system with a pellet boiler system. Maine Energy Systems won the project with a competitive bid and has proved to be an excellent partner for us in this project even after installation. With the support of Maine Energy Systems, we’ve had minimal upkeep costs and have seen significant annual savings on our heating costs.”

”

— Rob C. at The White Mountain School in Bethlehem, NH



Rebates & Financing



Easy Financing

Many customers choose to finance their installation with either an FHA Title 1 Home Improvement Loan, or by working with a local financing program. Many of these loans don't require home equity and are FHA insured.

State Rebate Programs

Several states offer rebates on a first-come, first-served basis towards the installation of MESys products. These easy to obtain rebates can significantly offset the cost of installing wood pellet heating systems.

Installation



Locate an Installation Contractor

Our manufacturers reps have matched thousands of customers to MESys certified installation contractors. We have trained hundreds of plumbing and heating professionals throughout North America to install, configure, and maintain MESys boilers and furnaces.

Contact us to find the contractor that's right for you. Or, have your heating professional become MESys certified and keep the same great service you already have.

Notes



MAINE ENERGY SYSTEMS

Cheaper. Cleaner. Closer.

207-824-NRGY (6749)
MaineEnergySystems.com



Certified Installation Contractor:

