



MINI POWER HOUSE

NEW GENERATION
ECO SERIES

 AUTONOM

ACCELERATED RETURN ON INVESTMENT

ECO SERIES - NEW GENERATION OF PELLET BOILERS



AN AFFORDABLE PELLET BOILERS

The Eco series has vertical heat exchanger tubes with a manually operated cleaning system from the outside. The reliable structure of the Eco is reinforced with a durable 'boiler steel' which guarantees a service life of several years.

All functions of the boiler are easily accessible by a digital keyboard located at the front of the cabinet through a simple and intuitive software. The compact structure of the Eco systems is extremely flexible and makes it particularly easy to adapt to all types of installations. The boiler can be equipped with external heat exchangers for domestic hot water, swimming pool, hot tub or a storage tank (" buffer tank ") to increase its efficiency.

WHAT MAKES IT SPECIAL?

Its dimension! The new generation Eco series is about 2/3 of conventional boilers.

Being smaller, its price is smaller too!

HOW IS IT POSSIBLE?

Everything comes from the path taken by the combustion gases. The flames are inverted once produced and then forced back through the fire a second time for a second burn. This process not only increases the efficiency, it also reduces the size of the combustion chamber.

BUILT FOR EFFICIENCY!

- ✓ Efficiency > **92%**
- ✓ Emissions < **500 mg/m³ C₀**
- ✓ Pollution < **40 mg/m³**.



HIGHLIGHTS OF BOILERS ECO SERIES

- ✓ Fully automatic lighting
- ✓ Manual tube cleaning system
- ✓ Self-cleaning burner grates
- ✓ Precise calibration according to the type of granules
- ✓ Pellet silo can be mounted on the left or right
- ✓ Friendly user digital touch control
- ✓ Unique combustion programming
- ✓ Unique combustion air programming
- ✓ Simple design for maintenance
- ✓ Flexible installation
- ✓ Large pellets silo for long autonomy

FEATURES



Backburn control

Flame return is protected by always keeping the burner feed duct empty and with constant negative pressure. A high temperature limit probe also provides security.



Tube cleaning system

Manual handle allows turbulators to move up and down and cleaning of smoke tubes.



Advanced control system

An advanced central control system regulates the system constantly with the data provided by sensors.



Digital touch control

Modern digital touch control allows remote control and servicing of your boiler.



Burner

A removable combustion chamber (burner) with easy cleaning mechanism provides quick servicing and maintenance



Silo

Detachable silos are various in size and can be placed in both sides of the boiler unit



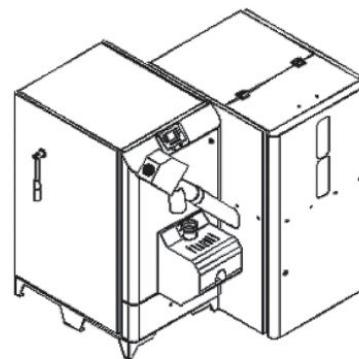
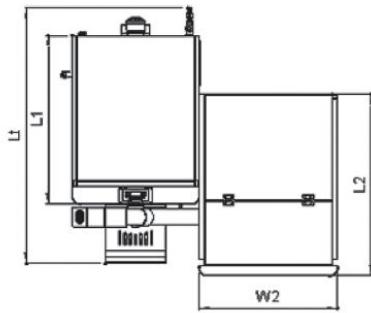
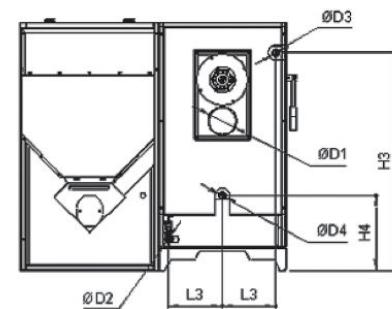
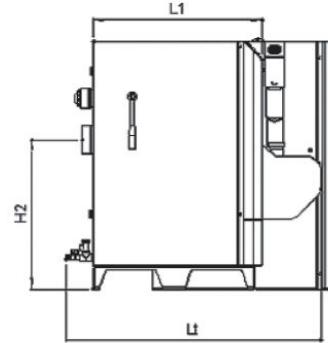
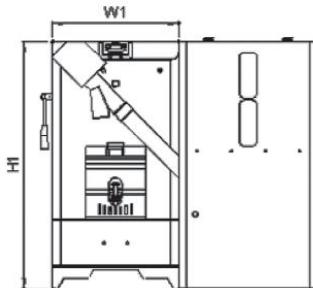
Adaptativr air feed

A high capacity induced draft fan allows precise regulation of boiler capacity.



Automated burner cleaning

A simple yet effective cleaning system clears the burner grate periodically.



TECHNICAL SPECIFICATIONS

	TECHNICAL SPECIFICATIONS OF THE ECO PELLET BOILERS	Unit	BOILERS MODEL						
			AE40	AE85	AE135	AE200			
CAPACITY	Maximum heat output	kW	12	25	40	60			
		btu/h	40100	85300	136500	225000			
OPERATING CONDITIONS	Minimum heat output	kW	1,8	3,7	6	9			
		btu/h	5900	12800	20500	33800			
	Efficiency	%	> 92%						
OPERATING CONDITIONS	Safety limit temperature	°C/°F	95 / 203						
	Max. operating temperature Min.	°C/°F	85 / 185						
	water return remperature	°C/°F	55 / 130						
	Opreating pressure	psi	10						
	Maximum boiler pressure	psi	30						
	electrical connection	-	120V _{ac} , 60 Hz						
	Recommended fuel type	-	6 to 8 mm High Quality pellets						
DIMENSIONS	W ₁ Cabin width	po	20	23.5	23.5	27.5			
	H ₁ Height	po	45.5	45.5	53.5	53.5			
	L ₁ Cabin depth	po	26	31	33	39			
	Boiler depth (+ 2, L _t)	po	42	47	50.5	57.5			
	Flue pipe ØD ₁ / Chimney Ø ***	po	6 / 6	6 / 6	6 / 7	6 / 7			
	H ₂ Flue pipe height	po	29	27.5	34	34			
	Water volume	lt/gal	25 / 6.6	50 / 10.2	75 / 19.8	110 / 29			
	Empty weight	kg/lb	150 / 331	190 / 419	240 / 529	290 / 639			
	Packaging dimensions (LxHxD)	po	24x49x43	28x49x49	28x57x52	32x57x59			
	Total weight	kg/lb	170 / 375	215 / 474	270 / 595	330 / 727			
	Fill & drain valve	ØD ₂ Diameter	po	1/2"					
		ØD ₃ Diameter	po	1", Male		1½", Male			
	Hot water outlet	L ₃ Position	po	8	10	12			
COLD WATER RETURN		H ₃ Position	po	40.5	40.5	48	48		
	Cold water return	ØD ₄ Diameter	po	1", Male			1¼", Male		
		H ₄ Position	po	6	14	14			
						14			
SILOS	Stand fuel storage volume	lt/kg	300 / 200	500 / 330					
	W ₁ Width H ₁	po	25.5	31.5					
	Depth	po	33.5	35.5					
	Empty weight	kg/lb	35 / 77	45 / 100					

*** Flue pipe and chimney joints need to be sealed to prevent any smoke leakage



LES CHAUDIÈRES AUTONOM / AUTONOM BOILERS

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