

MINI POWER HOUSE

NEW GENERATION
ECO SERIES

AUTONOM

v1.3

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.

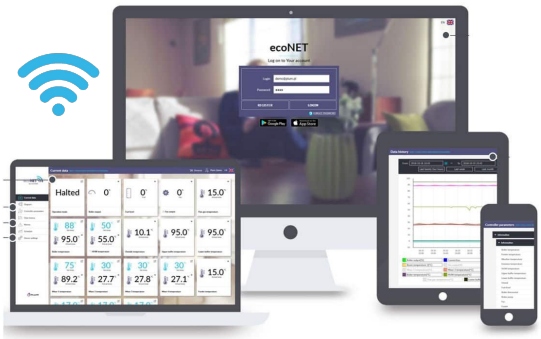
Being smaller, its price is smaller too!

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 C_0**
- ✓ 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.



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



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



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



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



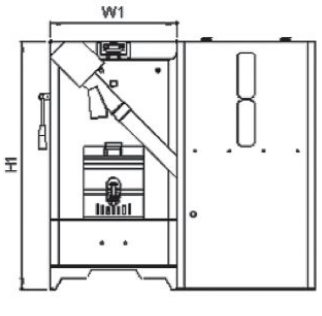
Digital touch control
Modern digital touch control allows remote control and servicing of your boiler.

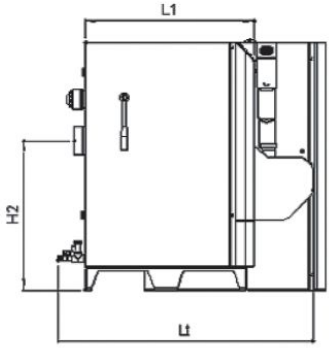


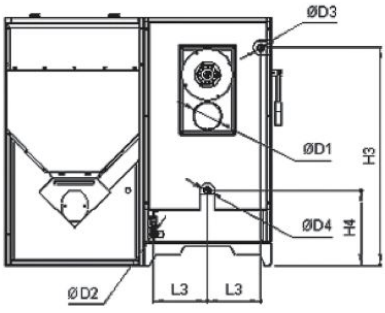
Silo
Detachable silos are various in size and can be placed in both sides of the boiler unit

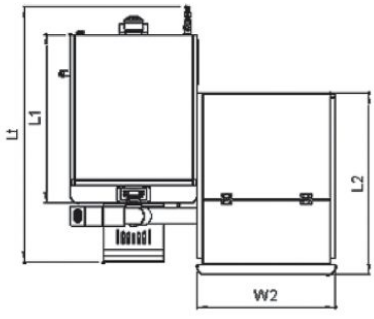


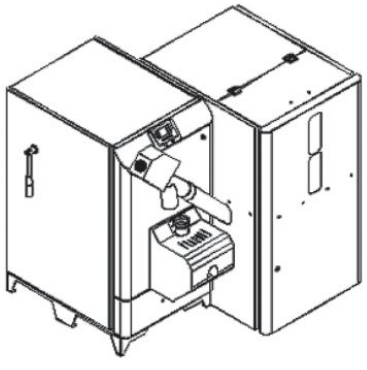
Automated burner cleaning
A simple yet effective cleaning system clears the burner grate periodically.











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
	Minimum heat output		kW	1,8	3,7	6	9
			btu/h	5900	12800	20500	33800
	Efficiency		%	> 92%			
OPERATNG 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			
	Recommanded 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 ØD1 / 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 dimensons (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"			
	Hot water outlet	$ØD_3$ Diameter	po	1", Male		1½", Male	
		L_3 Position	po	8	10	12	
		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
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 scealed to prevent any smoke leakage



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