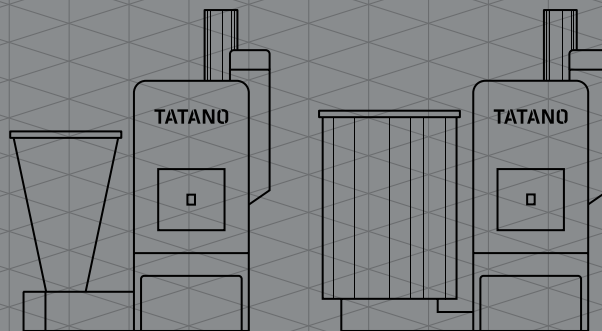


Biomass boilers **CLASS 5**



*Pellet and wood chip heating
for residential spaces*



KALORINA LE-PA / Low Emission

TATANO
energie rinnovabili



BIOMASS: ALL THE ADVANTAGES OF A LOCAL, CLEAN AND RENEWABLE ENERGY SOURCE.

Heating with biomass means enjoying natural heat generated from a renewable source par excellence, wood. Using it as an energy source means heating in harmony with the natural carbon cycle and with minimal environmental impact, an eco-conscious choice for the present and future of the next generations.

Since biomass is easily available in nature and is a renewable heat source, it will not be conditioned in the future by supply problems.

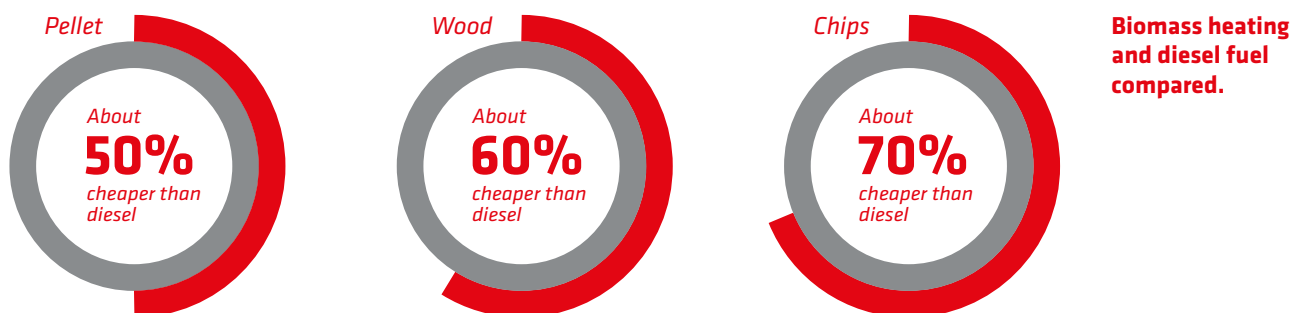
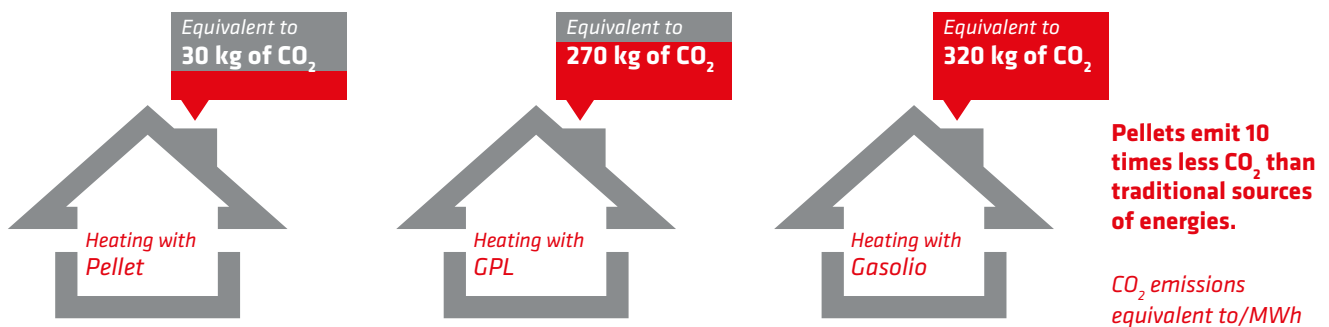
Sensible use of resources

An investment for the future that will make us independent of the strong fluctuations in the prices of fossil fuels, such as gas or diesel, allowing us to save significantly on energy costs.

A profit for everyone

Using biomass allows you to save on heating costs, to strengthen the local economy, to respect the environment. You can also take advantage of the incentives provided by the Conto Termico for wood biomass boilers.

Give up fossil fuels. Warm up with renewables energies!



CLASS 5

The UNI EN 303-5 2012 standard qualifies the latest generation boilers in Class 5 as they comply with the strictest limits in terms of safety, emissions and thermal yields, thus being able to access the contribution envisaged by the Conto Energia Termico.

CONTO TERMICO

It is an incentive for energy efficiency and thermal energy production from renewable sources introduced in 2012 (Conto Termico 2.0, in force since 31 May 2016) intended for both private customers and the public administration.

KALORINA CLASS 5

The new range of pellet and wood chips boilers, Kalorina MK-Compact class, guarantees performance significantly higher than the minimum parameters required for CLASS 5 certification, boasting a 4-star environmental efficiency class (according to D.M.186/2017), for which it has all the requirements for the request of the incentives provided by the Conto Termico.

KALORINA LE-PA / Low Emission

Wood Pellet




RANGE OF POWER

from 30 to 90 kW

MODULATION RANGE

1:4 (25% to 100%)

APPLICATIONS

-  Residential spaces
-  Agricultural structures
-  Requalification/New installations with access to tax deductions

FUELS

EN 14961-2 wood pellets

Required for access to CONTO TERMICO

OTHER TYPES:

- Olive husk/Marc of olives
- Minced shells
- Wood



WEB-SERVICE via accessory for management and assistance with APP 4 HEAT

The sustainable choice to free yourself from the costs of gas and diesel, saving immediately thanks to incentives.

ADVANTAGES OF THE SYSTEM

Efficient and comfortable

- The raw materials of excellent quality, the choice of components, the safety systems and the design according to the most restrictive quality standards guarantee their high efficiency, total reliability and durability.
- Maximum comfort of use with reduced maintenance.

Flexibility

- **of use:** ideal both for buildings with high thermal loads and for those with almost zero energy (nzeb);

- **of installation:** in new and existing systems depending on the space and the room positioning (possible heating solutions in containers);
- **of integration:** with solar energy systems (Solar Key Mark certification for solar panels).

Economic

- **Significantly lower combustion costs compared to oil or gas heating.**
- Certified to access the Conto Energia Termico with the possibility of obtaining the maximum possible incentive;

- Possibility to take advantage of the contributions provided for solar by the Conto Energia Termico.

Ecological

- High yields and low emissions with reward coefficients for low dust content of 1.5.
- Maximum contribution of energy from renewable sources and zero environmental impact with the integration of solar panels.

KALORINA LE-PA / Low Emission

Wood Chips




WOOD POWER

from 30 to 90 kW

MODULATION RANGE

1:4 (dal 25% to 100%)

APPLICATIONS

-  Residential spaces
-  Agricultural structures
-  Requalification/New installations with access to tax deductions

FUELS

EN14961-4 Wood Chips
EN 14961-2 wood pellets
Required for access to CONTO TERMICO

OTHER TYPES:

- Shavings
- Sawdust
- Olive husk/Marc of olives
- Minced shells
- Wood



WEB-SERVICE via accessory for management and assistance with APP 4 HEAT

It ranks at the top of the category for reliability and performance, ensuring high performance and maximum levels of comfort.

ADVANTAGES OF THE SYSTEM

Safe and reliable

- Design according to the most restrictive quality and safety standards, in line with environmental regulations and energy efficiency classes A+/A+++.
- Safe and efficient operation, ease of use and maintenance.

Versatility

- **of use:** flexible use in the fields of medium power for residential, commercial, farms and short-range heating networks;
- **of installation:** both in new buildings and in redevelopments, with customized solutions according to the spaces and positioning of the boiler room/wood chip /pellet storage depot;

- **of integration:** with all wood chip and pellet storage and feeding systems, as well as with solar energy systems (Solar Key Mark Certification).

In choosing the type of biomass.

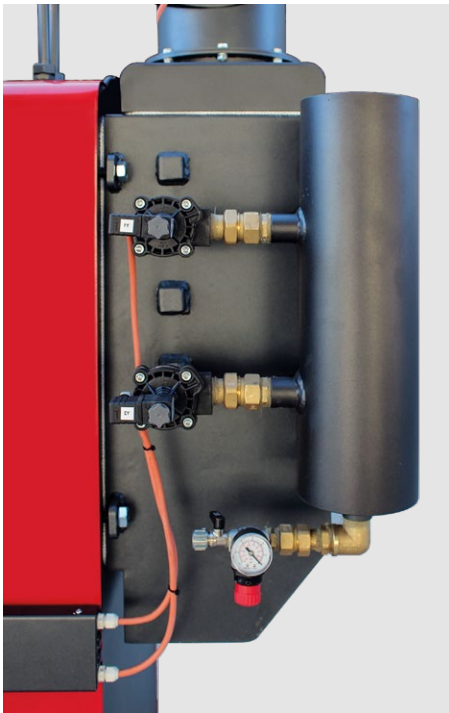
Economic

- Possibility of universal use. Biomass is easily available as it comes from the short chain.
- The electricity consumption of the boiler has been reduced to a minimum thanks to efficient and controlled starts.
- The high yields and low emissions allow access to the incentives provided for by the tax deductions (50% / 65%) and from the Conto Energia Termico.

Eco-friendly

- Class 5 certification EN 303-5: 2012 with access to the Conto Energia Termico.
- It offers not only environmental but also economic benefits, considering the excellent possibilities of developing biomass energy in several sectors.
- Minimum environmental impact with the integration of the solar thermal panel.

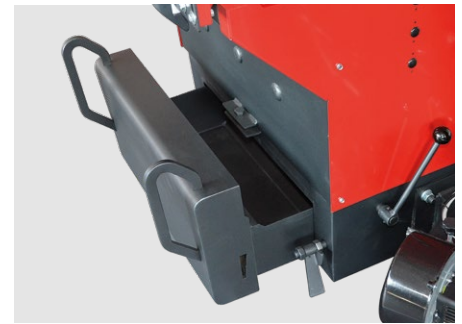
Standard accessories and system components



Multicyclone filter with integrated automatic cleaning



Smoke extractor



Combustion chamber ash drawer



Boiler data sheet + application for smartphone management



Anti-fire kit

Accessories for storage and withdrawal of fuel

The fuel withdrawal and loading mechanisms allow greater autonomy of exercise and this is why Tatano offers the most suitable system according to the layout of the rooms and the type of fuel used.



Leaf spring agitator

Suitable for the transport of non-homogeneous fuel



Articulated feeder

Suitable for the transport of granular fuel

Data sheet

Kalorina LE-PA Pellet		K 30 LE-PA	K 40 LE-PA	K 50 LE-PA	K 60 LE-PA	K 70 LE-PA	K 80 LE-PA	K 90 LE-PA
Nominal power range	kW	8-30	12-40	15-50	18-60	18-70	18-80	18-88
Min/max consumption per hour	Kg	1,90-7	2,70-9	3,5-11,5	4,2-13,7	4,2-16	4,2-18,4	4,2-18,4
Construction data								
Width (W)		1458	1458	1458	1458	1458	1458	1458
Depth (D)	mm	1121	1121	1399	1399	1521	1521	1521
Height (H)		1623	1623	1623	1623	1623	1623	1623
Weight	kg	500	500	575	575	650	650	650
Chimney diameter	∅	200	200	200	200	200	200	200

CALCULATION PERFORMED WITH CERTIFIED PELLETT EN 14961-2

Kalorina LE-PA Chips		K 30 LE-PA	K 40 LE-PA	K 50 LE-PA	K 60 LE-PA	K 70 LE-PA	K 80 LE-PA	K 90 LE-PA
Nominal power range	kW	7,5-30	10-40	12,5-50	15-60	17,5-70	20-80	22-88
Min/max consumption per hour	Kg	1,8-7,3	2,4-9,8	3,1-12,2	3,7-14,7	4,3-17,1	4,9-19,5	5,4-21,5
Construction data								
Width (W)		1850	1850	1850	1850	1850	1850	1850
Depth (D)	mm	1121	1121	1300	1300	1500	1500	1500
Height (H)		1623	1623	1623	1623	1623	1623	1623
Weight	kg	675	675	750	750	825	825	825
Chimney diameter	∅	200	200	200	200	200	200	200

CALCULATION PERFORMED WITH CERTIFIED EN 14961-4

POSSIBLE SAVINGS WITH THE CONTO TERMICO

KALORINA LE-PA	kW	Years of incentive	MAX INCENTIVES / Calculated for climatic zones / Values in euro					
			A	B	C	D	E	F
K30 LE-PA	30	2	2.430	3.443	4.455	5.670	6.885	7.290
K40 LE-PA	40	5	3.600	5.100	6.600	8.400	10.200	10.800
K50 LE-PA	50	5	4.500	6.375	8.250	10.500	12.750	13.500
K60 LE-PA	60	5	5.400	7.650	9.900	12.600	15.300	16.200
K70 LE-PA	70	5	6.300	8.925	11.550	14.700	17.850	18.900
K80 LE-PA	80	5	7.200	10.200	13.200	16.800	20.400	21.600
K90 LE-PA	88	5	7.920	11.220	14.520	18.480	22.440	23.760

COMPANY AND SERVICES



*Tatano: cutting-edge technology
for environmentally friendly
heating solutions.*

The company is specialized in the design of biomass plants recognized for their high degree of innovation, efficiency and for their contribution to environmental protection. From single-family houses to big residential complexes, from commercial and industrial buildings to local heating networks, the company offers efficient heating systems and energy solutions for every need.

THE OFFER OF TATANO SERVICES: EVERYTHING FROM A SINGLE SUPPLIER

Consulting and planning

- Consultancy on the most suitable system solution;
- Basic and detail engineering design and site planning;
- Supply and assembly;
- Regular implementation.

Maintenance, assistance and training

- Personalized assistance with scheduled maintenance contracts;
- Service network for customer assistance with highly qualified personnel;
- Remote diagnosis and monitoring;
- Requalification and modernization;
- Training courses.

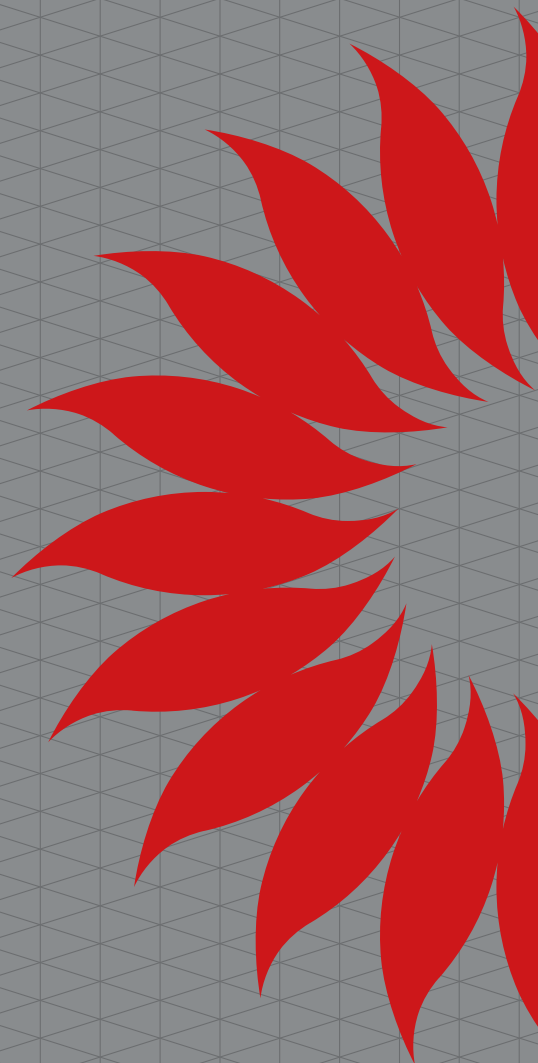
Energy network

It's the ideal structure for the search for eco-sustainable energy solutions.

Below are the various figures involved:

- Biomass producers and suppliers;
- Design studies (EGE);
- Energy Service Company (ESCo);
- Energy Services Managers (GSE);
- Installers and assistance centers.





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