



PASQUALICCHIO

*Ecological heat*



# Biomass Air Generators

GA / GAB

  
Made in Italy

Catalog v.2  
2014

**Our Vision**  
 'To take energy efficiency  
 into every home''

**Our Mission**  
 'To identify solutions that  
 respect the environment,  
 creating products with  
 reduced consumption,  
 high efficiency and low  
 emissions''

Paolisi, is situated in the heart of the South Italy, in the Province of Benevento.

A small municipality in the South of Italy that is home to **Pasqualicchio since the 70's**. Offering biomass heating solutions for over 40 years.

Currently, our offer includes 7 product lines: compact boilers, industrial boilers, multi-fuel boilers, air generators, air stoves, fireplace heating system and thermo-stoves. The company can count on a structure of over **18000 square metres**, made up from a specialised research and development centre, three production plants and one state-of-the-art design department. Throughout the years, the business genius of the brothers **Francesco** and **Ruggiero Pasqualicchio** has established itself firmly on national and international markets, thanks to the dynamic company policy, typical of the market-pull.

It has been the requests of satisfied customers that have given the correct imprinting to focus on higher product quality. Playing the **thermo-technical know-how** card as an integral part of the company's DNA was indispensable. For **Pasqualicchio**, innovation, quality and know-how go hand-in-hand; all aimed at offering products increasingly closer to the customer's requirements. It is for this reason that the company is constantly searching for synergies and collaborations with the main suppliers of state-of-the-art components and machinery.



## BIOMASS AIR GENERATORS

GA » GAB

Catalog v.2



## VISION

To take energy efficiency into every home



## MISSION

To identify solutions that respect the environment, creating products with reduced consumption, high efficiency and low emissions

Pasqualicchio has always used state-of-the-art materials for its eco-compatible solutions. We have come a long way since the creation of first product over 40 years ago. Our objective is to identify solutions that respect the environment, creating products with reduced consumption, high efficiency and low emissions. Our products are innovative, without neglecting the environment, thanks to the use of fuels deriving from renewable sources, in a way to reduce pollution.



## OUR HISTORY

### A tale started in the 70's

The Pasqualicchio family's passion for the domestic "fireplace" is the milestone of an entrepreneurial experience that has its roots in the artisan production of domestic wood-burning stoves. All of this was kicked-off over 40 years ago by **Vito Antonio Pasqualicchio**. Innovative ideas took shape in his small laboratory, which reached industrial levels during the 90's, when **Francesco Pasqualicchio** and, successively his brother, **Ruggiero**, took over the company. \

#### 1971 - 1980

**Vito Antonio Pasqualicchio** started to create the first wood-burning stoves from his artisan laboratory. His products were a great success immediately. This encouraged **Vito Antonio** to introduce innovations and expand his business.



#### 1981 - 1989

Thanks to an ever increasing number of satisfied customers and the desire to be brought into question, production started to expand to new products such as fireplace heating systems and boilers.



#### 1990 - 1999

A high demand required a radical transformation of the activity: during the 90's the family business became a Company. In 1996 the Pasqualicchio brand name was created; Francesco and Ruggiero Pasqualicchio, the sons of Vito Antonio, took over the helm of the company.



#### 2000 - 2007

The decades of experience in the thermo-technical field and the engineering of business processes give a strong input to the Pasqualicchio brand. The company became a leader in the production of boilers, thermo-stoves, fireplace heating systems and air generators.



#### 2008 - 2012

The second establishment measuring over 14000 m<sup>2</sup> was built in 2008, provided with a centre specialising in Research and development and a state-of-the-art design department.



## RESEARCH AND DEVELOPMENT CENTRE

Research and development, one target:  
the absolute efficiency

### Pasqualicchio Research and Development Centre

The Pasqualicchio R&D Centre has advanced technological laboratories and uses the professionalism of the expert researchers and talented young university students. Through these resources and structures, it develops the initiatives envisioned within the ambit of the G.E.Pro. (Green Energy Project) Company Research Programme, dealing with the analysis and development of technologies with the goal of producing clean energy at low cost.

The approach to the programme is mainly experimental. In a first step, the technologies, processes and systems within the laboratories are studied in-depth. The experimental area has test plants dedicated to the study and testing of flame aerodynamics, movement of solid biomasses, combustion and handling of fumes. In phase two there is a test at prototype level of the experimental machines, which then will reach industrial application once the various tests in the most important European Certification Institutes have been passed.

### Increasing investments in Research & Development

Since 1996, Pasqualicchio has constantly increased the research and development of innovative technologies with an increase with respect to the previous year of about + 18%. The commitment in research and development has been broken down as follows, with approximately 60% going to innovation in the energy efficiency field, in order to reduce the environmental impact (reduction of the emissions and increase of the efficiency of the machines), 20% for the optimisation of combustion processes (with a focus on ecological double combustion) and 20% regarding thermal efficiency programs.

### Supply

There is an experimental station for combustion tests for studies and research into potential solid biomasses suitable for combustion.

The centre has mobile grid boiler for experiments, suitable for the simulation of all operating conditions, including the continuous detection of the gaseous effects and emissions into the atmosphere. Monitoring the fumes allows to analyse the behaviour of the boiler and to set the excellent process parameters in order to reduce emissions and increase efficiency. Analysis of the ashes and dusts are an integral part of the tests.

### The instruments used for the tests:

- » Hydraulic circuit flow rate measuring device for the determination of the power transferred to the water
- » Combustion analysers to measure CO, CO<sub>2</sub>, NO, NO<sub>x</sub>, dusts
- » Isoperibolic calorimeter for measuring the upper heat value
- » Truspec for Carbon, Hydrogen and Nitrogen Determinator
- » TGA -701 to determine moisture, volatile substances and ashes
- » Instruments for measuring fumes and air flow rate
- » Multi-channel thermometers
- » Scales



## THE CERTIFICATIONS

Pasqualicchio quality system

### The Certifications

Pasqualicchio follows the most stringent and strict procedures envisioned by the international Standards in order to obtain the highest company management quality and environmental standards as well as products with a high thermal efficiency and low emissions of carbon monoxide into the atmosphere.

### How is certification obtained?

In order to obtain certification, each of our products must follow a precise procedure:

- Phase 1)** Every model is tested in the laboratory. Continuous analysis and strict controls are performed in the innovative Pasqualicchio Research and Development Centre. This uninterrupted study means that our products are in compliance with the highest safety standards.
- Phase 2)** Once the laboratory tests have been passed, the models are sent to the most important European Certification Institutes.

Here, the products are subjected to official tests according to that envi-

sioned by the strict international Standards.

**Phase 3)** If the product passes the test, the Certification is issued. This document officially attests that the “product has been controlled and type-approved according to that envisioned by International Standards”.

**Phase 4)** The product can officially boast the Certification. This is synonymous of guarantee, quality, safety and reliability.

### Our certificates



**ISO 9001**  
International Standard that defines the requirements of a quality management system for an organisation.



**ISO 14001**  
International environmental management Standard that certifies that the company has a management system suitable to keep the environmental impact of its own company under control and they systematically seek improvement in a coherent, effective and above all sustainable manner.

### Product Certifications



**EN 303-5\***  
European Standard applied to heating boilers - including the connected safety devices - powered by solid fuels. The Standard defines requirements and test methods for safety, quality of combustion, operational features, marking and maintenance.



**EN 14785**  
European Standard that specifies the requirements relative to design, manufacture, construction, safety and performance (efficiency and emissions), instructions and markings, as well as the relative test methods and fuels for the type test, for the pellet-burning heating appliances, also fed mechanically.



**EN 13229**  
European Standard that specifies the requirements relative to design, manufacture, construction, safety and performance (emissions and yield), instructions and markings as well as the relative test methods for the type test, for inserts and fireplace heating systems also fed with solid fuel.



**CE**  
The CE mark indicates that the product is in compliance with all European Community provisions that envision its use “: from design to manufacturing, introduction onto the market, commissioning of the product up to disposal. The CE mark governs the entire life cycle of the product from the time it is introduced onto the market.



**15a B-VG**  
Certification for the respect of environmental safeguard measures



**BAFA**  
Certification issued by the German Federal Office for economy and the control of export under the jurisdiction of the Federal Ministry of Economics and Technology (BMWi).



## WHY PASQUALICCHIO?

### 10 reasons to choose Pasqualicchio, ecological heat



#### 1. ENERGY SAVING

Thanks to the use of innovative materials, we can propose suitable solutions, able to reduce emissions. Our products combine performance, high quality and energy saving.



#### 2. RESEARCH

Our products are designed to last through time. It is for this reason that we are at the forefront of research and in the study of techniques. Able to meet the customer's requirements with respect for the environment. Years of experience have allowed us to offer the best efficiency.



#### 3. QUALITATIVE STANDARDS

Pasqualicchio has always considered quality as one of its priorities. To make quality available, for us means searching for reliable, strong and long-lasting materials, so that the price of the product reflects its effective value.



#### 4. CERTIFICATIONS

Pasqualicchio is ISO 9001 and ISO 14001 European Quality System Certified. All of our products are in compliance with the European Standards with CE mark, tested and approved by the TUV laboratory according to EN 303-05, EN 13229, EN 14785 Standards.

**EXCLUSIVE**  
design

#### 5. EXCLUSIVE DESIGN

Most of our products are exclusive own design. The efficiency, together with the design and our passion, form the three basic pillars that have kept our business as a reference in the national and international market for 40 years. The most prestigious interior designers are among our clients.



#### 6. MADE IN ITALY

Pasqualicchio is an all Italian company, founded from family passion and a magical union between ourselves, which produce, and the people who choose us. Tradition, commitment and ambition have been the passwords of our professional and human experience. Our strong point is a Made in Italy aimed at the requirements of our customers with respect to the environment.



#### 7. ASSISTANCE

Our philosophy is to give maximum reliability to the customer. We propose our after-sales service with a network of highly qualified technicians, trained directly within our company. They intervene immediately and efficiently to solve any type of problem.



#### 8. WIDE RANGE OF PRODUCTS

We currently have 7 product lines and over 100 models in the products portfolio. Choose from the wide range of Pasqualicchio products for your requirements, for your comfort, for yourself.



#### 9. TECHNOLOGY

The Pasqualicchio products have the highest technology in the sector. It is the result of the in-depth research developed and perfected by the prestigious Pasqualicchio Research and Development Centre.



#### 10. 5 YEAR WARRANTY

Our products are designed to last through time. As well as the legal warranty of 2 years, Pasqualicchio offers a warranty covering the boiler body for 5 years from the date of purchase.

## SUSTAINABLE ENERGY

### To identify solutions that respect the environment



**Graphical notes:** annual yearly consumption for a house measuring 80 m<sup>2</sup> (average h 2.70 mt.) indicative value

The use of alternative fuel costs much less with respect to traditional fossil fuels because with parity of heat produced, it is much less expensive with respect to petroleum or methane gas. Heating costs have a considerable weight at the end of the financial year. There are small changes suggested by the installers to lower the level, however remarkable results are not attained. If all of these solutions should integrate a Pasqualicchio product, which works exclusively with solid fuels, there would be a real saving. In fact, in terms of percentages, from 34% to 70% can be saved on home heating costs.

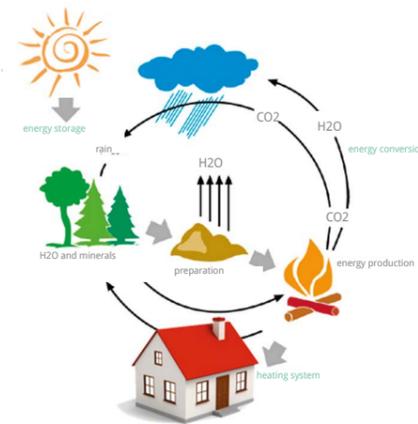
### What is the biomass pellet of vegetable origin?

For various reasons, the pellet is surely one of the most used biomasses. They are obtained through simple mechanical processes, subjecting the finely worked sawdust to very high pressures. Pellet is manufactured starting from virgin sawdust remaining from the processing of the wood, suitably dried and pressed at high pressure in a way to obtain small cylinders of various sizes. Thanks to the binding capacity of lignin, a natural substance contained in wood, no type of additive is necessary and thus a natural, environmentally friendly and high efficiency fuel is obtained. Ideal for powering heating appliances, pellets are clean, non-pollutant and CO<sub>2</sub> neutral. Burn completely with minimum ash residue, which can be used as a precious fertilizer for the garden. Given the pressing, in the production phase the energy density of the pellet is almost double that of wood. The pellets power the stoves for the heating of individual rooms and boilers for central heating. It is also used in district heating instead of wooden chips.



### Why is the biomass ecological?

When talking about biomass it means any type of organic substance deriving directly or indirectly from the photosynthetic activity of plants. Its origin, both vegetable and animal, is in close correlation with the more general carbon cycle, which is one of the basic elements for metabolism and anabolism of all living organisms. This element enters the cycle in the form of carbon dioxide (CO<sub>2</sub>) and, thanks to the plants and their photosynthetic activity, is fixed in more complex compounds of an organic nature, which serve as base material for their growth and sustenance. Starting precisely from CO<sub>2</sub>, water and mineral salts, they use solar energy to process substances such as lignin, cellulose, hemicellulose, starches, sugars, etc., which constitute the plant biomass. Through herbivores, a part of this material passes into the food chains of animals, to then be reprocessed in the form of fats, lipids, proteins, etc., which instead constitute the animal biomass. The carbon cycle closes when all the carbon transformed into an organic compound via photosynthesis returns into the atmosphere as CO<sub>2</sub>, through a decomposition process. Biomass represents the most sophisticated form of accumulation of solar energy which, through photosynthesis is converted from light energy to chemical energy and stored in organic molecules. For this reason, it constitutes a renewable energy resource and respects the environment, as the carbon dioxide produced during combustion is reabsorbed by the plants during photosynthesis.



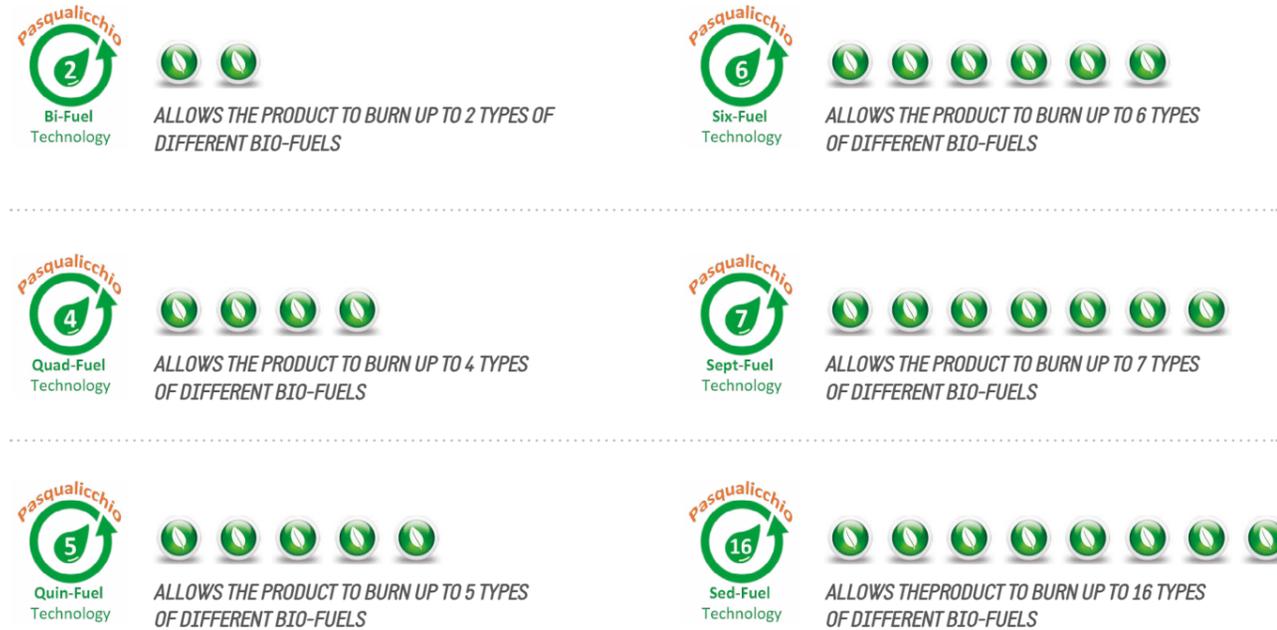
## MULTI-FUEL TECHNOLOGY

## SMART ENERGY

### Choose your fuel!

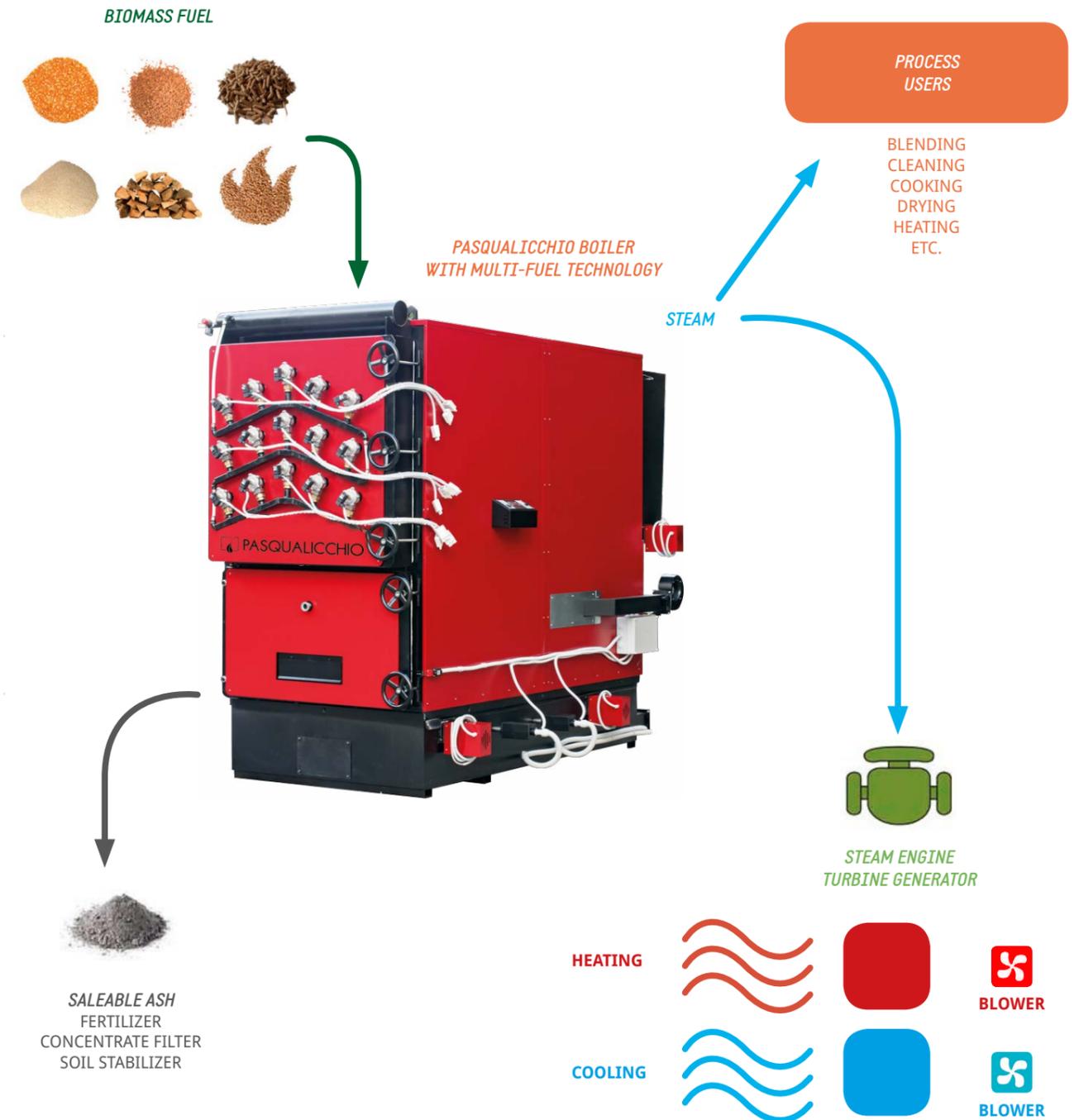


Launched in early 2000's the Multi-Fuel Technology system from Pasqualicchio, enables a Pasqualicchio's product to work on different types of fuel.



Fuel flexibility and high efficiency are the main advantages of the Multi-Fuel Technology. Multi-Fuel Technology offers the possibility of using different fuels giving the consumer complete flexibility as regards refuelling and allowing him to select the lower-priced fuel. This allows consumers to choose whether to refuel with pellet, wood, olive pit, maize or other biomass fuel.

### How does biomass work?



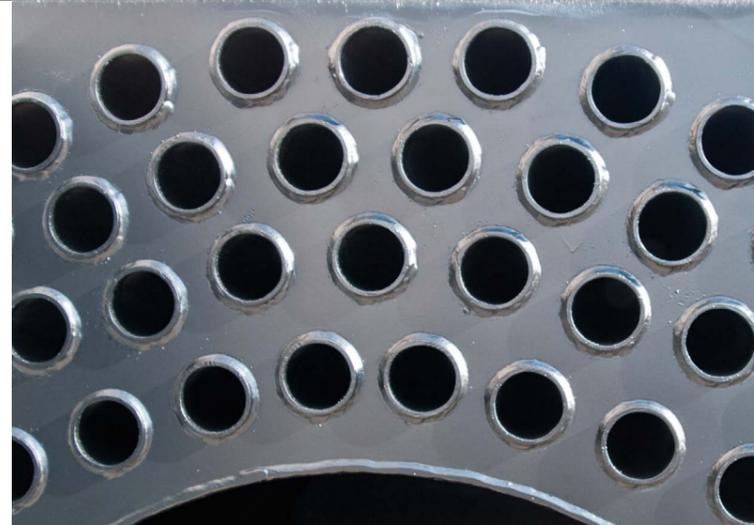
# Biomass Air Generators



ENERGY SAVING



HIGH QUALITY MATERIALS



EFFICIENCY



SAFETY





GA

Certified product



### Description

The GA air generator uses the tested smoke 3-pass geometry with horizontal pipes to make the most of the combustion fumes. The combustion chamber is manufactured entirely in steel with precision electric arc welding. The entire boiler body is lined with insulating material, while the burner with the two doors are insulated with refractory cement to reduce heat loss to a minimum. The fuel is stored in a truncated inverted pyramid hopper. The screw resists high temperatures and the acid agents present in some fuels. The air - fuel mixture is managed through the electronic control unit, which operates on the screw for advancement of the fuels and on the fan for the introduction of air. The cylindrical burner has been studied to ensure maximum efficiency. The GA air generator guarantees quality, efficiency and safety in compliance with Standards in Force. It uses solid biomass fuels such as: olive pomace, almond, hazelnut shells, sawdust pellets, etc.

### Features

- » Fuel hopper
- » Fuel conveying system: formed from two steel screw feeders
- » Safety lock system: flame arrestor system in hopper
- » Electronic control unit
- » Efficient motors
- » Environment fan
- » Switch: to attenuate flame intensity when door is opened
- » Epoxy powder painted steel panels
- » Fuel level sensor
- » Brush: to clean the shell and tube

### Powers

Available with the following firebox powers:

- GA 40 » 53.36 kW
- GA 60 » 78.88 kW
- GA 80 » 105.56 kW
- GA 150 » 196.62 kW
- GA 200 » 262.16 kW



### Standard accessories

- Stainless steel combustion chamber
- Electronic control unit
- SLS (Safety Lock System)
- Fuel sensor

### Optional accessories

- Automatic ignition
- ACS (Auto Cleaning System)
- Fire-prevention water valve
- Electric control board
- Fumes withholding turbulators

### Fuels



### Details



Connection for air hose  
Available in different types.



**GAB**

Certified product



### Description

GAB is a safe air generator because it is fitted with Safety Lock System. The system, connected directly to the circuit board, closes the passage between the combustion chamber flame and the containment silo. The GAB is particularly suitable for winter heating and summer ventilation of work places such as workshops, warehouses, sheds, greenhouses and farm buildings. The Pasqualicchio GAB air generator guarantees quality, efficiency and safety in compliance with Standards in Force. The air generator uses solid biomass fuels such as: olive pomace, almond, hazelnut shells, sawdust pellets, etc.

### Features

- » **Fuel hopper**
- » **Fuel conveying system:** formed from two steel screw feeders
- » **Safety Lock System:** flame arrestor system in hopper
- » **Electronic control unit**
- » **Efficient motors**
- » **Switch:** to attenuate flame intensity when door is opened
- » **Steel panels:** epoxy powder painted panelling
- » **Fuel level sensor**
- » **Brush:** to clean the shell and tube
- » **Mixer system**

### Powers

Available with the following firebox powers:

- GAB 40 » 53.36 kW*
- GAB 60 » 78.88 kW*
- GAB 80 » 105.56 kW*
- GAB 150 » 196.62 kW*
- GAB 200 » 262.16 kW*



### Standard accessories

- Stainless steel combustion chamber
- Electronic control unit
- SLS (Safety Lock System)
- Fuel sensor
- Mixer system

### Optional accessories

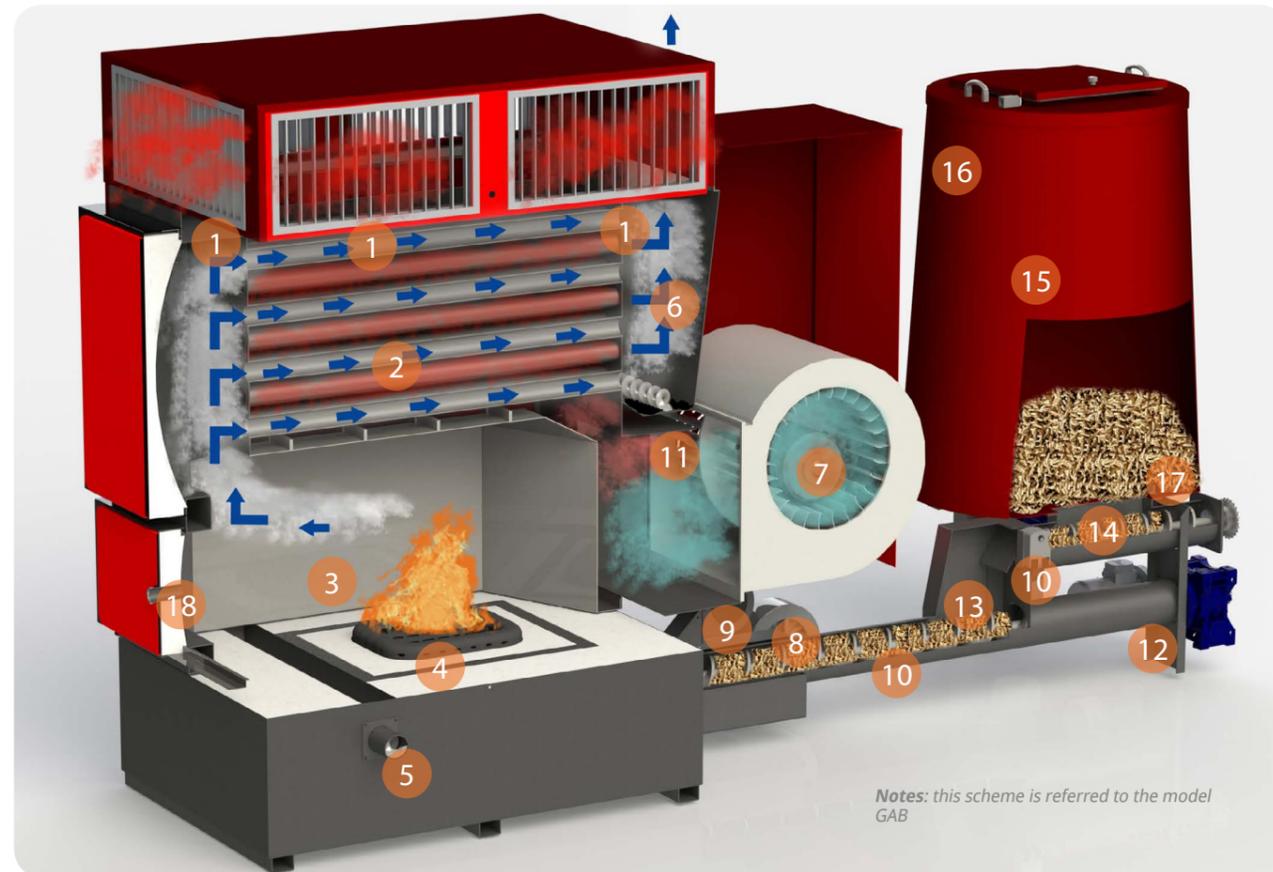
- Automatic ignition
- ACS (Auto Cleaning System)
- Fire-prevention water valve
- Electric control board
- Fumes withholding turbulators

### Combustibili



### Details





Notes: this scheme is referred to the model GAB

- 1 » **Air grids:** for introduction of hot air into the room
- 2 » **Shell and tube fumes-air heat exchanger:** heat exchanger where the hot fumes are conveyed
- 3 » **Combustion chamber:** in stainless steel
- 4 » **Biomass fuels burner:** made up from cast iron inserts
- 5 » **Ash extraction screw:** to remove the ash that deposits on the burner bed\*
- 6 » **Hood:** with "explosion-proof" doors which operate mainly as safety doors and also allow the hood to be cleaned
- 7 » **Room fan:** it extracts the air from the room and conveys it inside the fumes - air heat exchanger, where it is heated before returning to the room.
- 8 » **Combustion agent air fan:** introduces the air necessary for combustion into the burner
- 9 » **Secondary air fan:** improves combustion and prevents the smoke going into the hopper
- 10 » **Reinforced steel screw:** lengthens the average life span of the fuel feeding system

Notes: \* optional

- 11 » **Ash extraction screw:** removes the ash that deposits inside the hood\*
- 12 » **Motor reducer:** driven by an electric motor, it allows the screw to transport the fuel
- 13 » **Servo-motor:** allows operation of the SLS Safe Lock System
- 14 » **Pellet mixer:** prevents the annoying formation of "bridges" by the fuel
- 15 » **Pellet hopper:** the capacity up to 480 kg allows prolonged operational autonomy
- 16 » **Hopper door switch:** stops the movement of the mechanical components when the door is opened
- 17 » **Fuel sensor:** signals the status of the fuel reserve inside the hopper
- 18 » **Chamber door switch:** allows to lower flame intensity when the combustion chamber door is open

The fuel stored in the hopper is made to advance intermittently into the combustion chamber thanks to a system made up from two worm screws that turn with different speeds and which are separated by a safety valve (safety lock system). The flame develops inside the combustion chamber with the aid of combustion agent air blown by a fan.



### Automatic management

The new electronic heat regulator is enhanced with many functions. It has been integrated with a combustion phase dedicated exclusively to wood. This has allowed us to implement a control system in the combustion phases on the circuit board, which allows the automatic passage from wood to biomass fuel. Any and effective ignition of the latter fuel is not guaranteed in models without blower (optional). The circuit board controls and manages all generator components. The board establishes the different operating phases by reading the probes, which are: ignition, maximum power, modulation and standby.



### Safety Lock System

Safety is not an optional for us. It is for this reason that we have fitted our boilers with an innovative system, connected directly to the circuit board. This closes the passage between the combustion chamber flame and the containment silo, ensuring perfect isolation of the material stored in the hopper. This type of system has the advantage of guaranteeing lower fuel consumption in the minimum phase due to closure of the air passage.

### Chamber door switch

Allows to lower flame intensity when the combustion chamber door is open



### Hopper

Positioned on the side or rear, they have a truncated inverted pyramid shape for the GA versions and truncated-cone shape for the GAB versions. These have different sizes and are mounted on all models. The hopper is adapted depending on the generator power band. For those machines, which have the smallest size mounted, a larger hopper can be requested.



### Fire protection valve

It is an optional for this type of product, which allows to open the cock directly on the fuel pipe. It starts to operate if high temperatures are recorded following any backfires.



### Mixer system

Supplied as per standard on all products in the GAB range, as necessary for omnivorous systems operating with large piece size biomass fuel and fine fuels such as sawdust. The system is composed of a mechanical arm positioned inside the hopper and managed, through a motor connected to a reducer, directly by the electronic control board, which governs its operating times.



### Cleaning and Auto Cleaning System ACS

Periodic maintenance drastically reduces the probability of problems through time, thus increasing the reliability of the machinery. The generator is also provided with a handy brush in order to maintain the same level of efficiency. This allows to clean the shell and tube quickly. Another optional available is the automatic ash extraction device (ACS - Auto Cleaning System).



### Blower for automatic ignition

Generator switch-on is manual, but it can be automated by requesting the installation of the blower as an optional. It is an accessory that allows to make the most of the potential of the electronic control unit. This device blows air at a very high temperature onto the biomass fuel in the burner, triggering combustion.



### Turbulators

It is an optional, also applicable successively, and is made up from helical steel bars. These modify the inner shape of the shell and tube in a way that the hot fumes lengthen their pathway inside the generator body before reaching the flue, thus transferring a larger amount of heat to the air.

During their mandatory passage to the flue, the fumes produced by the flame transfer heat through the air - air heat exchanger, (realised in steel and situated inside the machine structure), with the air pushed by a fan situated in the rear part of the machine.

## GA » Technical specifications

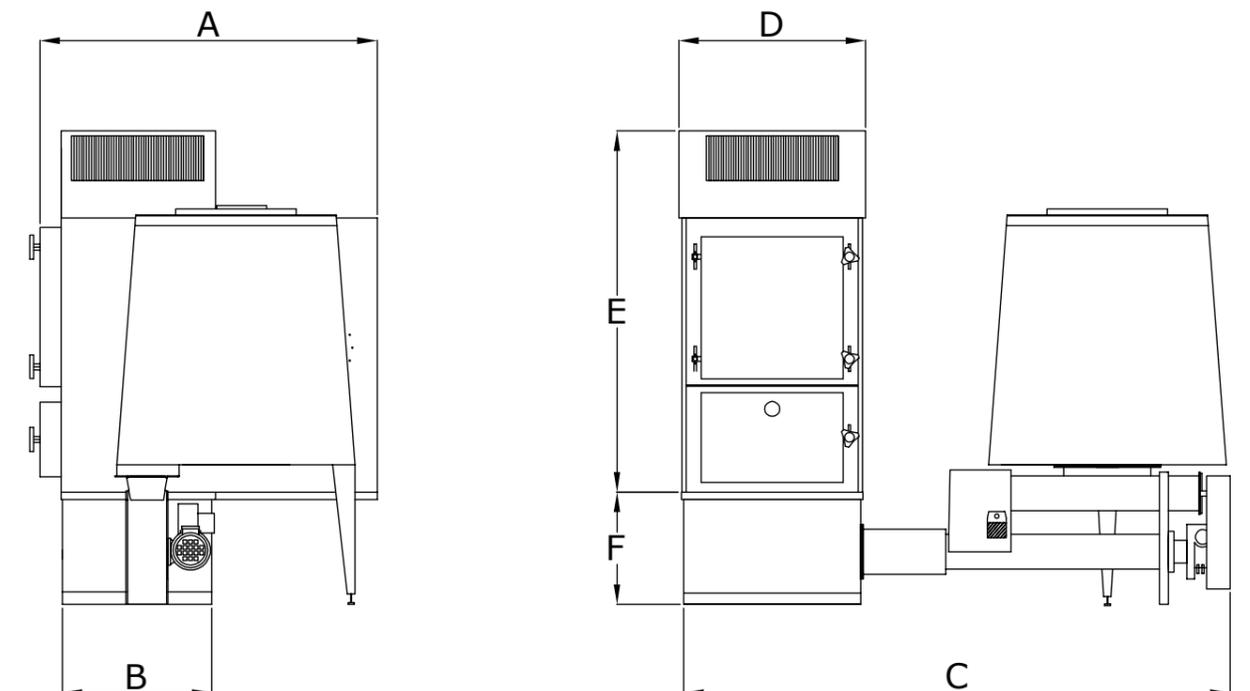
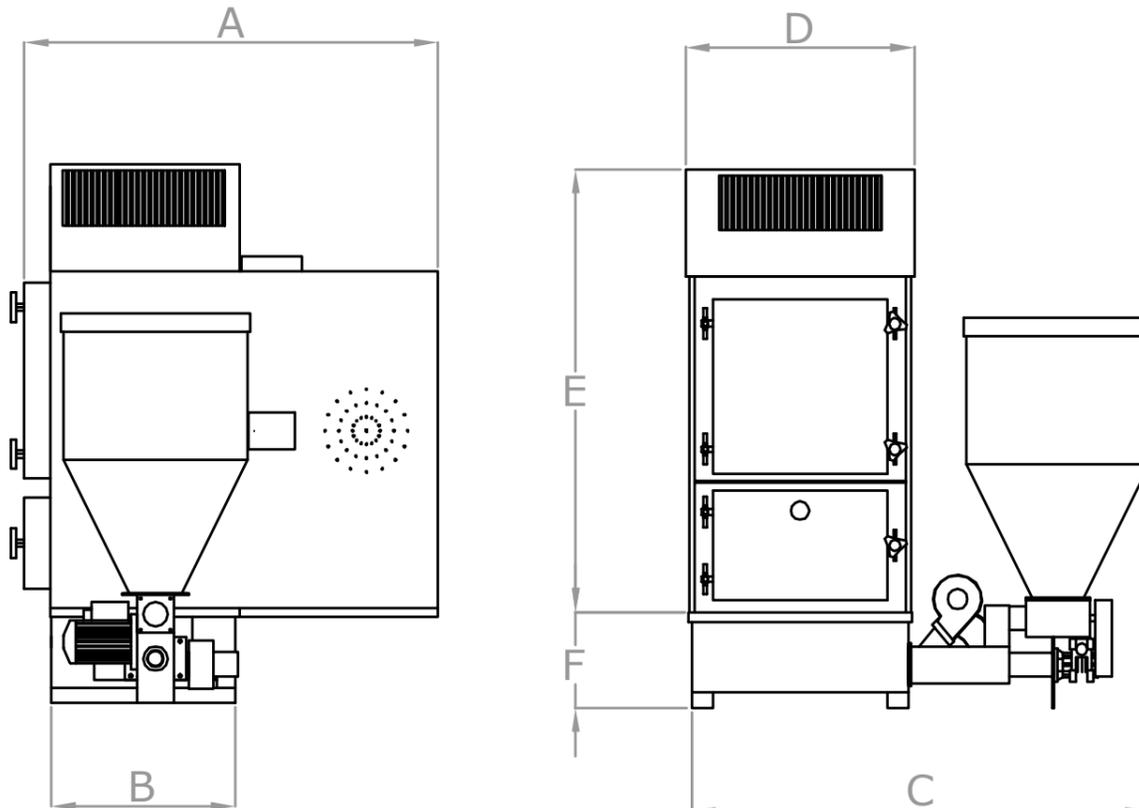
Parameters/Model	GA40	GA60	GA80	GA150	GA200
<b>Power</b>					
Chimney [kW]	53,36	78,88	105,56	196,62	262,16
<b>Dimensions</b>					
A [mm]	1320	1570	1870	2220	2470
B [mm]	600	800	900	1250	1400
C [mm] 60 x 60	1500	1500	1500	2150	2150
C [mm] 80 x 80	1700	1700	1700	2350	2350
C [mm] 100 x 100	2100	2100	2100	2640	2640
D [mm]	750	750	750	1000	1000
E [mm]	1450	1450	1450	1740	1740
F [mm]	280	280	280	350	350
Chimney [mm]	200		300		
Weight [kg]	430	500	560	1280	1590
<b>Fuel</b>					
Type	Pellets, Olive pit, Maize, Wood, Olive pomace				
Tank capacity [Lit / Kg-Pellet]	200/130		600/400		
<b>Info</b>					
Optionals	Ash extraction screw, Turbolators, Automatic Ignition				
Power supply	760 W to 230 V or 380 V 50 Hz	1250 W to 380 V 50 Hz		2200 W to 380 V 50 Hz	2600 W to 380 V 50 Hz
Fuel consumptions Min / Max [kg / h]*	10,70	15,80	20,90	39,50	48,80
Flow fan [m <sup>3</sup> / h]	3000	4000	5000	11500	15000

Pasqualicchio reserves the right to make technical, dimensional and aesthetic modifications to its products for improvement, without forewarning. This does not constitute right of withdrawal for the customer.  
Notes: (\*) the values have been calculated taking a fuel with calorific value below 5 [kW \* h/kg] as a reference.

## GAB » Technical specifications

Parameters/Model	GAB40	GAB60	GAB80	GAB150	GAB200
<b>Power</b>					
Chimney [kW]	59,36	78,88	105,56	192,62	262,16
<b>Dimensions</b>					
A [mm]	1320	1570	1870	2220	2470
B [mm]	600	800	900	1250	1400
C [mm]	2230	2230	2230	2730	2730
D [mm]	750	750	750	1000	1000
E [mm]	1450	1450	1450	1740	1740
F [mm]	450	450	450	450	450
Chimney [mm]	200		300		
Weight [kg]	480	560	630	1370	1700
<b>Fuel</b>					
Type	Pellets, Olive pomace, Sawdust, Wooden chips, Maize, Olive pit, Wood				
Tank capacity [Lit / Kg-Pellet]	570/370		740/480		
<b>Info</b>					
Optionals	Ash extraction screw, Turbolators, Automatic Ignition				
Power supply	1700 W to 230 V \ 380 V 50 Hz	2540 W 380 V 50 Hz		2540 W 380 V 50 Hz	22540 W 380 V 50 Hz
Fuel consumptions Min / Max [kg / h]*	10,7	15,8	20,9	39,5	48,8
Flow fan [m <sup>3</sup> / h]	3000	4000	5000	11500	15000

Pasqualicchio reserves the right to make technical, dimensional and aesthetic modifications to its products for improvement, without forewarning. This does not constitute right of withdrawal for the customer.  
Notes: (\*) the values have been calculated taking a fuel with calorific value below 5 [kW \* h/kg] as a reference.



WHERE WE ARE



  
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DESIGN: EMANUELE ARUSSA.COM

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