



Thermo-Fireplaces

Frascel / Marix / Panoramico / Termocompact / Termocompac Kit Idro

Ecological heat

Pasqualicchio is ISO 9001
European Quality System Certified



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.



THERMO-FIREPLACES

Frascel » Marix » Panoramico » Termocompact » Termocompac Kit Idro
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 m² 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, CO₂, NO, NO_x, 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 m² (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.

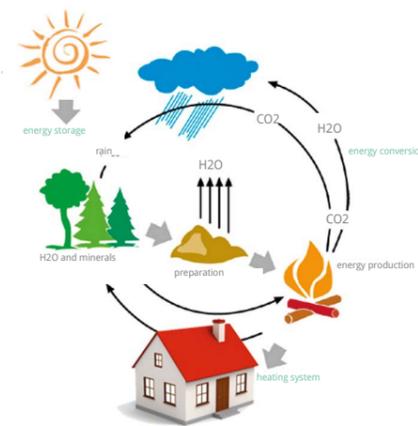
What is the biomass pellet of vegetable origin?

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 CO₂ 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 (CO₂) 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 CO₂, 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 CO₂, 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.



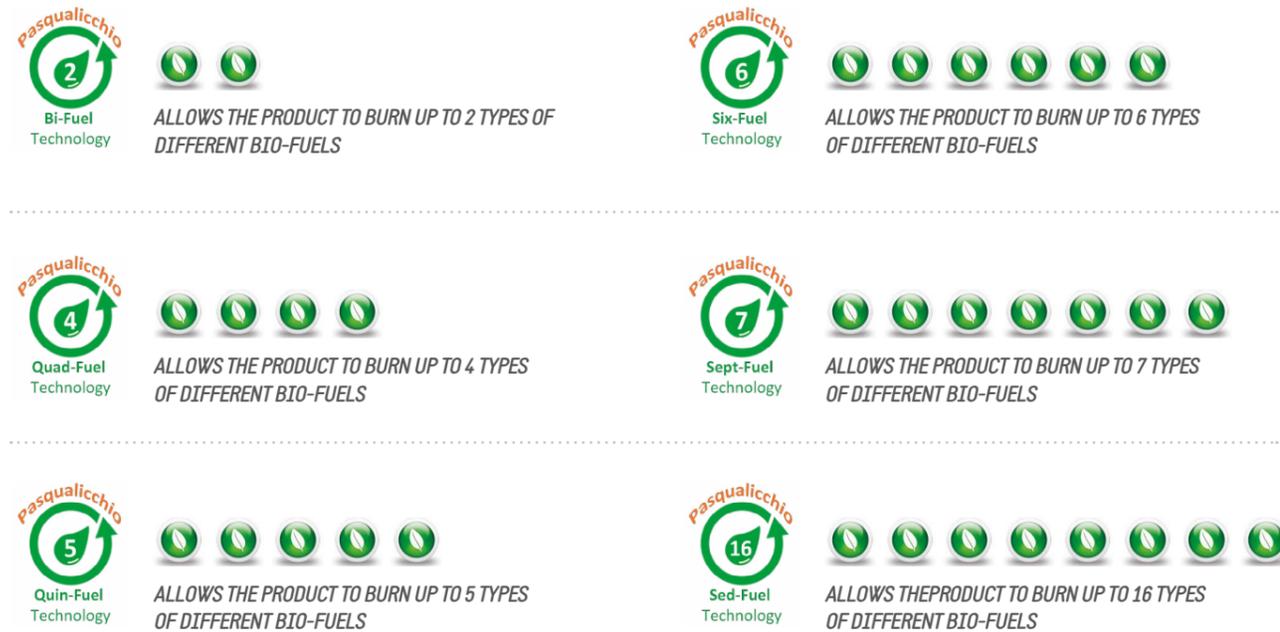
MULTI-FUEL TECHNOLOGY

SMART ENERGY

Choose your fuel!

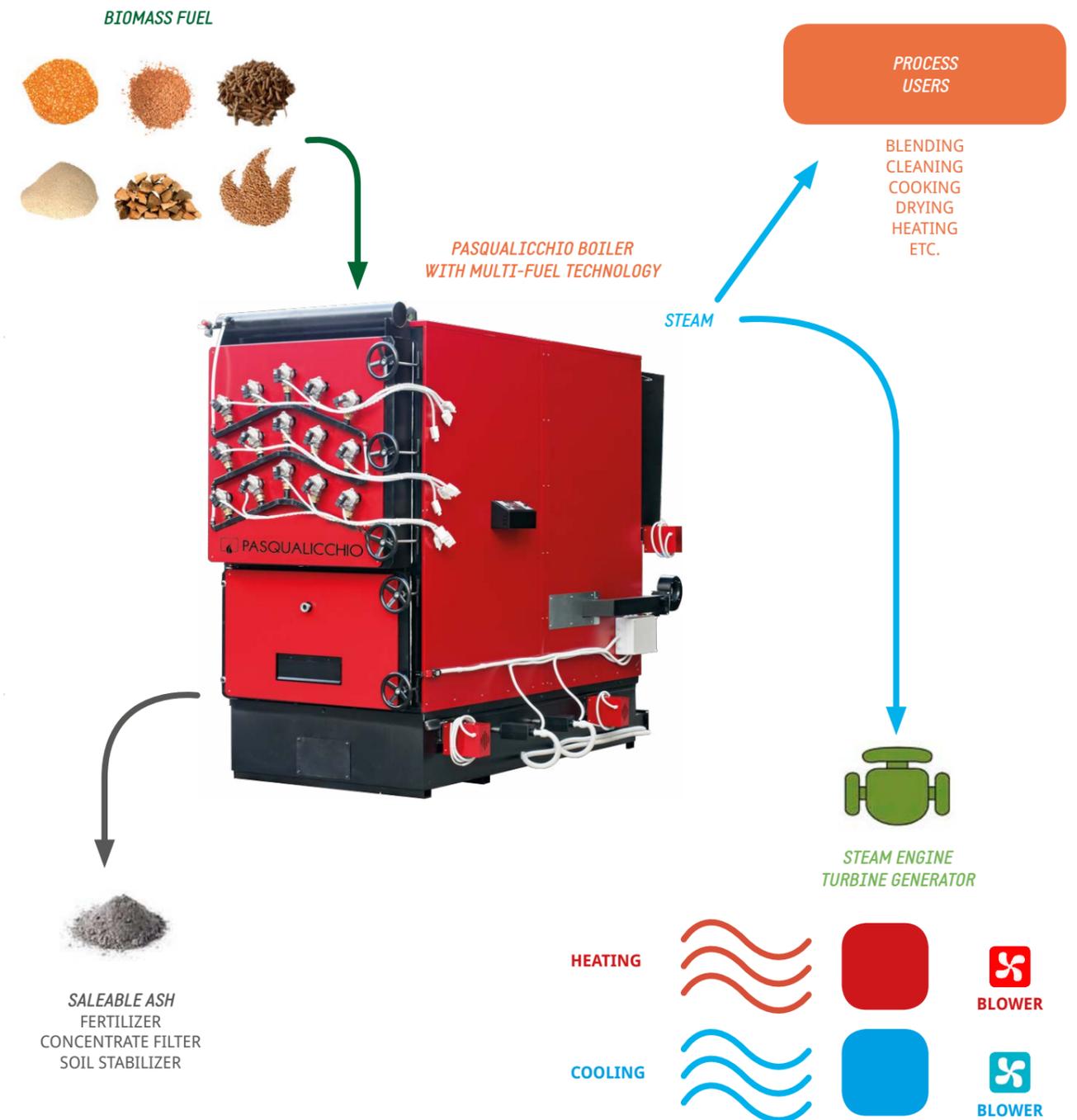


Launched in early 2000's the Multi-Fuel Technology system from Pasqualicchio, enables a Pasqualicchio's product to work on different types of fuel.



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?



Thermo-Fireplaces



GREEN ENERGY



EXCLUSIVE
design



MONEY SAVING



EASY CLEANING





Frascel

Certified product



Description

Frascel is the silent fireplace heating system. Thanks to its versatility it can be purchased in the wood version and the biomass fuel version through the installation of a bench or hopper loading device. The fireplace heating system has an anti-noise steel chain. The anti-block wheels and the steel guides on the sides of the door allow safe, easy and silent running. The large ceramic glass window is flat to allow an excellent view of the flame.

Features

- » **Easy opening system**
- » **Side opening:** to facilitate cleaning of the glass
- » **Large ceramic glass window:** for an excellent view of the flame
- » **Possibility of functioning with biomass fuel***
- » **Electric spit***
- » **Domestic hot water production***
- » **Mechanical control unit*:** designed to manage the pump
- » **Electronic control unit*:** for management of the pump, spit and diverter valve
- » **Pump***
- » **Hydro Kit*:** separates the plants and produces domestic hot water
- » **100 Kit*:** module for boiler/chimney interface
- » **120 Kit*:** module for boiler/chimney interface and 3-way valve management
- » **200 Kit*:** module for hot water production/heating interfacing
- » **300 Kit*:** module for boiler/chimney interface and 3-way valve management

Notes: (*) optional

Powers and heatable spaces

Available with the following rated thermal inputs/ m² / m³heatable*:

FRASCEL 20 » 18.56 kW » up to 150 m² » up to 450 m³

FRASCEL 30 » 27.84 kW » up to 250 m² » up to 750 m³

Notes: (*) on the basis of the model and for homes built in compliance with Law 10/91 and with heating requirement of 35 W/m² and rooms with height of 3m.



Optional accessories for wood

- Domestic hot water
- Electronic control unit
- Split
- Mechanical control unit
- Pump
- Management modules

Optional accessories for wood and biomass

- Domestic hot water
- Split
- Automatic ignition
- Pump
- Management modules

Fuels





Marix

Certified product



Description

Marix is characterised for its two hinged doors with large ceramic glass window, which can be opened to 180°. This solution guarantees exceptional ease of loading the wood and shorter time required for cleaning the glass. Thanks to its versatility it can be purchased in the wood version and the biomass fuel version through the installation of a bench or hopper loading device.

Features

- » **2 hinged doors:** with large ceramic glass door that can be opened to 180°
- » **Large ceramic glass window:** for an excellent view of the flame
- » **Electric spit***
- » **Domestic hot water production***
- » **Mechanical control unit*:** designed to manage the pump
- » **Electronic control unit*:** for management of the pump, spit and diverter valve
- » **Pump***
- » **Hydro Kit*:** separates the plants and produces domestic hot water
- » **100 Kit*:** module for boiler/chimney interface
- » **120 Kit*:** module for boiler/chimney interface and 3-way valve management
- » **200 Kit*:** module for hot water production/heating interfacing
- » **300 Kit*:** module for boiler/chimney interface and 3-way valve management

Notes: (*) optional

Powers and heatable spaces

Available with the following rated thermal inputs/ m2 / m3 heatable*:

MARIX 20 » 18.5 kW » up to 150 m2 » up to 450 m3

MARIX 30 » 27.8 kW » up to 250 m2 » up to 750 m3

Notes: (*) on the basis of the model and for homes built in compliance with Law 10/91 and with heating requirement of 35 W/m² and rooms with height of 3m.



Optional accessories for wood

- Domestic hot water
- Electronic control unit
- Split
- Mechanical control unit
- Pump
- Management modules

Optional accessories for wood and biomass

- Domestic hot water
- Split
- Automatic ignition
- Pump
- Management modules

Fuels





Panoramico

Certified product



Description

Panoramico is the fireplace heating system that follows you everywhere. You can admire the flame from every corner of your home. Thanks to its versatility it can be purchased in the wood version and the biomass fuel version through the installation of a bench or hopper loading device. Panoramico fireplace heating system is top of the Pasqualicchio fireplace heating system range. Easy to install, it is fitted with a new shutter opening system. The large semi-hexagonal ceramic glass window allows the flame also to be admired from the sides. Moreover, a key has made it possible to open the glass from the sides to facilitate cleaning. The aesthetics of the Panoramico fire place heating system mean it adapts well to a modern furnishings, reconciling the atmosphere that only a flame knows how to create with an innovative and futuristic aspect.

Features

- » **Side opening:** to facilitate cleaning of the glass
- » **Large ceramic glass window:** for an excellent view of the flame
- » **Electric spit***
- » **Domestic hot water production***
- » **Mechanical control unit*:** designed to manage the pump
- » **Electronic control unit*:** for management of the pump, spit and diverter valve
- » **Pump***
- » **Hydro Kit*:** separates the plants and produces domestic hot water
- » **100 Kit*:** module for boiler/chimney interface
- » **120 Kit*:** module for boiler/chimney interface and 3-way valve management
- » **200 Kit*:** module for hot water production/heating interfacing
- » **300 Kit*:** module for boiler/chimney interface and 3-way valve management

Notes: (*) optional

Powers and heatable spaces

Available with the following rated thermal inputs/ m² / m³ heatable*:

PANORAMICO 20 » 18.5 kW » up to 150 m² » up to 450 m³

PANORAMICO 30 » 27.8 kW » up to 250 m² » up to 750 m³

Notes: (*) on the basis of the model and for homes built in compliance with Law 10/91 and with heating requirement of 35 W/m³ and rooms with height of 3m.



Optional accessories for wood

- | | |
|-------------------------|-------------------------|
| Domestic hot water | Mechanical control unit |
| Electronic control unit | Pump |
| Split | Management modules |

Optional accessories for wood and biomass

- | | |
|--------------------|--------------------|
| Domestic hot water | Pump |
| Split | Management modules |
| Automatic ignition | |

Fuels



Copper coil: realised in finned copper to increase the heat exchange surface, it allows the production of domestic hot water

Couplings for bulbs: for positioning of the temperature probes and thermostats

Boiler body: in painted steel

Combustion chamber: big to allow large amounts of wood to be loaded

Burn pot ash-drawer: collects the ash produced in the combustion chamber for practical and quick cleaning



Regulation damper: allows to solve problems of excessive draft, which would negatively affect the correct operation of the burner

Water cavity: heat exchanger where the hot fumes are conveyed

Fumes pathway: designed with 3-pass geometry to increase efficiency of the heat exchange

Operating principle with wood: the large combustion chamber allows to stack a considerable amount of wood. The energy released by burning this fuel is transferred to the water present in the cavity of the thermo-stove. The particular shape of the combustion chamber has been studied in a way to make the fumes transfer as much heat as possible to the heat-carrying fluid, which then distributes it to the room through the hydraulic plant.



Automatic management*

The electronic control unit allows completely automatic management. It reads the temperature of the water and the fumes through the probes. In this way, the operating status of the fireplace heating system is determined. With automatic management, it is the motor that each time establishes the amount of fuel that must finish in the burn pot and, at the same time the amount of combustion agent air, adjusted directly by the fan. Moreover, thanks to the management of the heat regulator, it allows the system not to accumulate a high thermal inertia, as it modulates the fireplace heating system operating power. This mechanism drastically reduces the consumption of fuel progressively as the temperature set is approached. Finally, it indicates whether there is fuel present in the silo or not.

Notes: () available for combined thermo-stove\biomass fuels only*



Blower for automatic ignition*

The ignition of biomass fuels in the fireplace heating system is manual. It can however be automated to make use of the potentiality of the control unit and requesting the installation of the blower as an optional. This device blows air at a very high temperature onto the biomass fuel in the burner, triggering combustion. However, with wood, ignition is exclusively manual.

Notes: () available for combined thermo-stove\biomass fuels only*

Operating principle with biomass fuel: the hydraulic part operates in the same way as the wood part, however there is a difference on the burn pot. In fact, for the last case, instead of loading the fuel manually, it is taken automatically from the fuel advancement system into the cast iron burner. Combustion, which releases the heat energy, takes place inside the burner with the aid of combustion agent air.



Plant kits

Indispensable for those plants where a gas boiler already exists and part of the home cannot be used as a boiler room. These kits have a double pump, appropriately sized heat exchanger and control unit and they represent the perfect synthesis of the nerve-centre of the heating plant all contained in just one box. All the part of the plant that must otherwise be realised by the installer is enclosed in just one box.

Kits available:

Hydro Kit: primary circuit (vessel open) and secondary circuit (vessel closed) separation

100 Kit: boiler/chimney interface module

120 Kit: boiler/chimney interface module with domestic hot water production system

200 Kit: module for domestic hot water production/heating interfacing

300 Kit: boiler/chimney interface module with heat exchanger for domestic hot water



Copper coil

It is an optional that allows to produce domestic water. The coil is realised in finned copper to increase the heat exchange surface and has been designed to be installed also successively to purchase of the fireplace heating system.



Automatic loading devices*

Two types of tanks have been designed to store the fuel (biomass type). The automatic loading devices can be installed successively and allow to burn biomass fuels. They are available in two versions: hopper and bench. The latter is recommended for indoor rooms as it is developed width wise. The hopper version is recommended for outdoors as it allows a large amount of fuel to be stored.

Notes: () available for combined thermo-stove\biomass fuels only*



Inverter*

Mounted on the loading systems, it allows the motor that manages the screw, to guarantee a constant supply of fuel to the burner; operating with a continuous cycle and, therefore with a stable flame. In this way, the combustion chamber never cools down and, moreover, this device makes the system silent; something that cannot be appreciated in other models on the market. The continuous cycle operation of the inverter allows to reduce emissions of CO₂, thus guaranteeing higher efficiency and respect of the ecosystems.

Notes: () available for combined thermo-stove\biomass fuels only*



TermoCompact

Certified product



Description

Termocompact is the ideal solution for those wanting both a wood burning and biomass fuel heating system. This type of fireplace heating system is on the market completely assembled with a fixed loading device in the side position. The compact monobloc has been designed for those with small spaces available but still want a wooden and biomass fuel heating system. Regarding wood-burning heating, the chimney has a large combustion chamber that can be accessed from the front panel through the shutter opening. While for operation with biomass fuels, the system is composed of a loading device fitted with a large silo and which can be accessed from several sides. The fuel advancement system has the same functionality as a combined thermo-stove. The automatic passage from wood to pellets must be highlighted. Finally, the particular air vent on our thermo-stoves keeps the glass cleaner longer and allows to introduce the correct amount of air into the combustion chamber in any draft condition, burning the wood in a slow and constant manner.

Features

- » Inverter
- » Electric motor
- » Fan
- » Electronic control unit
- » Electric spit*
- » Domestic hot water production*
- » Pump*
- » 100 Kit*: module for boiler/chimney interface
- » 120 Kit*: module for boiler/chimney interface and 3-way valve management
- » 200 Kit*: module for hot water production/heating interfacing
- » 300 Kit*: module for boiler/chimney interface and 3-way valve management

Notes: (*) optional

Powers and heatable spaces

Available with the following rated thermal inputs/ m² / m³ heatable*:

TERMOCOMPACT 20 » 18.5 kW » up to 150 m² » up to 450 m³

TERMOCOMPACT 30 » 27.8 kW » up to 250 m² » up to 750 m³

Notes: (*) on the basis of the model and for homes built in compliance with Law 10/91 and with heating requirement of 35 W/m³ and rooms with height of 3m.



Standard accessories

- Electronic control unit
- Charger *
- Pellet level sensor

Optional accessories

- Domestic hot water
- Automatic ignition
- Pump
- Split
- Management modules

Notes: (*) Supports hopper only

Fuels





TermoCompact Kit Idro

Certified product



Description

Termocompact with Hydro Kit is supplied with an innovative double circuit system with a stainless steel open expansion tank. It can be connected to the plant as the components are pre-assembled. The open tank guarantees maximum safety.

The closed tank allows correct plant pressure and the correct circulation of the heat-carrying fluid. These are connected to a plate heat exchanger. The open tank is fitted with pump, drain cock and shut-off valves. It produces domestic hot water with the innovative "HOT WATER SYSTEM" and has the function of anti-condensate. This type of fireplace heating system is on the market completely assembled with a fixed loading device in the side position. The compact monobloc has been designed for those with small spaces available but still want a wooden and biomass fuel heating system.

Features

- » Inverter
- » Electric motor
- » Fan
- » Electric spit
- » Hydro Kit
- » Automatic ignition via blower
- » Copper coil for domestic hot water

Notes: (*) optional

Powers and heatable spaces

Available with the following rated thermal inputs/ m² / m³ heatable*:

TERMOCOMPACT KIT IDRO 20 » 18.5 kW » up to 150 m² » up to 450 m³

TERMOCOMPACT KIT IDRO 30 » 27.8 kW » up to 250 m² » up to 750 m³

Notes: (*) on the basis of the model and for homes built in compliance with Law 10/91 and with heating requirement of 35 W/m³ and rooms with height of 3m.



Accessories

- Domestic hot water
- Electronic control unit
- Charger *
- Pump
- Management modules

Notes: (*) Supports hopper only

Optional accessories

- Pump
- Automatic ignition

Fuels

- Wood
- Maize
- Olive pit
- Pellets
- Olive pomace

Termocompact e Termocompact Kit Idro Operating layout

Copper coil: realised in finned copper to increase the heat exchange surface, it allows the production of domestic hot water

Couplings for bulbs: for positioning of the temperature probes and thermostats

Boiler body: in painted steel

Combustion chamber: big to allow large amounts of wood to be loaded

Burn pot ash-drawer: collects the ash produced in the combustion chamber for practical and quick cleaning



Regulation damper: allows to solve problems of excessive draft, which would negatively affect the correct operation of the burner

Water cavity: heat exchanger where the hot fumes are conveyed

Fumes pathway: designed with 3-pass geometry to increase heat exchange efficiency

Operating principle with wood: the large combustion chamber allows to stack a considerable amount of wood. The energy released by burning this fuel is transferred to the water present in the cavity of the thermo-stove. The particular shape of the combustion chamber has been studied in a way to make the fumes transfer as much heat as possible to the heat-carrying fluid, which then distributes it to the room through the hydraulic plant.

Termocompact e Termocompact Kit Idro Further details regarding components



Automatic management

The electronic control unit allows completely automatic management of operation both with wood and wood/pellets. It reads the temperature of the water and the fumes through the probes. In this way, the operating status of the fireplace heating system is determined. With automatic management, it is the motor that establishes the amount of fuel that must finish in the burn pot each time and, at the same time, the amount of combustion agent air, adjusted directly by the fan. Moreover, thanks to the management of the heat regulator, it allows the system not to accumulate a high thermal inertia, as it modulates the fireplace heating system operating power. This mechanism drastically reduces the consumption of fuel progressively as the temperature set is approached. Finally, it indicates whether there is fuel present in the silo or not.



Copper coil

It is an optional that allows to produce domestic hot water for all models, i.e. those operating with wood and those operating with wood/pellets. The coil is realised in finned copper to increase the heat exchange surface and has been designed to also be installed successively to purchase of the fireplace heating system.

Operating principle with biomass fuel: the hydraulic part operates in the same way as the wood part; however there is a difference on the burn pot. In fact, for the last case, instead of loading the fuel manually, it is taken automatically from the fuel advancement system into the cast iron burner. Combustion, which releases the heat energy, takes place inside the burner with the aid of combustion agent air.



Plant kits

Indispensable for those plants where a gas boiler already exists and part of the home cannot be used as a boiler room. The kit can have a double pump, appropriately sized heat exchanger and control unit. This represents the perfect synthesis of the nerve-centre of the heating plant all contained in just one box. All of the part of the plant that must otherwise be realised by the installer is enclosed in just one box.

Kits available:

- 100 Kit:** boiler/chimney interface module
- 120 Kit:** boiler/chimney interface module with domestic hot water production system
- 200 Kit:** module for domestic hot water production/heating interfacing
- 300 Kit:** boiler/chimney interface module with heat exchanger for hot water



Inverter

Mounted on the loading systems, it allows the motor that manages the screw, to guarantee a constant supply of fuel to the burner; operating with a continuous cycle and, therefore with a stable flame. In this way, the combustion chamber never cools down and, moreover, this device makes the system silent; something that cannot be appreciated in other models on the market. The inverter continuous cycle allows to reduce emissions of CO₂, thus guaranteeing higher efficiency and respect of the ecosystems.



Blower for automatic ignition

The ignition of biomass fuels in the fireplace heating system is manual. It can however be automated to make use of the potentiality of the control unit and requesting the installation of the blower as an optional. This device blows air at a very high temperature onto the biomass fuel in the burner, triggering combustion. However, with wood, ignition is exclusively manual.

Frascel - Marix - Panoramico » Technical specifications

Parameters/Model	Panoramico 20	Panoramico 30	Frascel 20	Frascel 30	Marix 20	Marix 30
Power						
Chimney [kW]	23,20	34,80	23,20	34,80	23,20	34,80
Nominal power [kW]	18,56	27,84	18,56	27,84	18,56	27,84
Chimney [kcal/h]	20000	30000	20000	30000	20000	30000
Nominal [kcal/h]	16000	24000	16000	24000	16000	24000
Thermal power fluid [KW]	14,86	22,14	14,86	22,14	14,86	22,14
Thermal power air [KW]	3,70	5,70	3,70	5,70	3,70	5,70
Dimensions						
A [mm]	780	825	690	750	620	690
B [mm]	880	930	880	930	880	930
C [mm]	400	400	400	400	400	400
D [mm]	250	250	250	250	250	250
E [mm]	590	635	580	630	590	650
F [mm]	530	580	/	/	/	/
G [mm]	640	685	550	510	480	550
H [mm]	450	500	450	500	450	510
I [mm]	140	140	140	140	140	140
K [mm]	820	870	670	710	705	745
L [mm]	870	920	820	860	825	865
M [mm]	460	500	460	500	460	500
N [mm]	1110	1200	1080	1180	735	785
O [mm] (dimensions with Kit Idro)	750 (950)	800 (1000)	750 (950)	800 (1000)	750 (950)	800 (1000)
P [mm]	410	470	410	470	410	470
Q [mm]	240	240	240	240	240	240
R [mm]	135	125	135	125	135	125
S [mm]	100	100	100	100	100	100
T [mm]	170	170	170	170	170	170
U [mm]	320	350	320	350	320	350
Z [mm]	330	330	330	330	330	330
Chimney [mm]	250					
Weight [kg]	290	320	230	280	210	260
Fuel						
Type	Wood, maize, olive pit, pellets, olive pomace					
Dimensions combustion chamber (Lu x La x Al) [mm]	Min340-Max580 680 - 400	Min340-Max580 730 - 400	Min340-Max580 680 - 400	Min340-Max580 730 - 400	Min340-Max580 680 - 400	Min340-Max580 730 - 400
Hydraulics						
Water connection system [Inches]	1"					
Water connection [Inches]	1/2"					
Max pressure [bar]	2					
Water capacity [Lit]	70	90	70	90	70	90
Info						
Optionals	Domestic hot water, spit, management modules, automatic loading device					
Fuel consumption [kg / h]*	3,5	5,5	3,5	5,5	3,5	5,5
Heating surface [m3]**	450	750	450	750	450	750

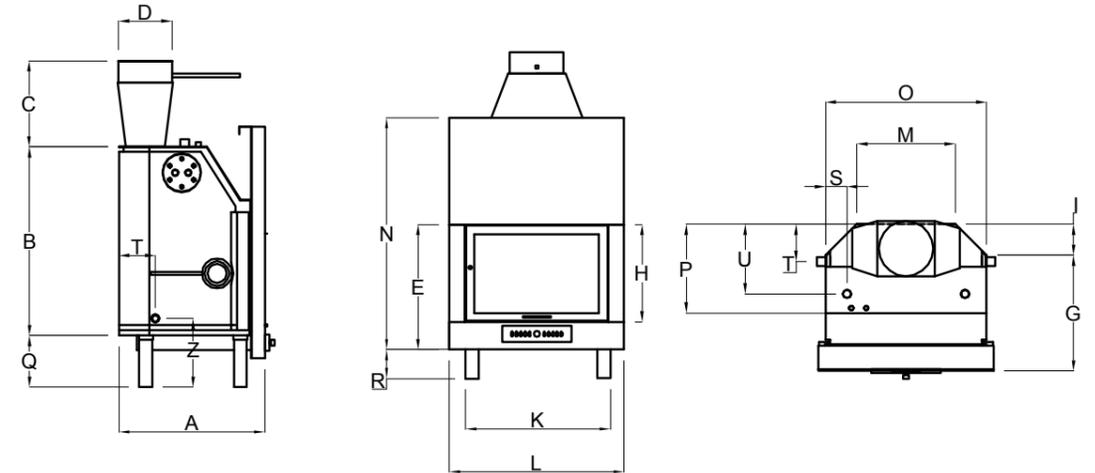
Pasqualicchio reserves the right to make technical, dimensional and aesthetic modifications to its products for improvement, without forewarning. This does not constitute right of withdrawal for the customer.

Notes: (*) the values have been calculated taking a fuel with calorific value below 5 [kW * h/kg] as a reference.

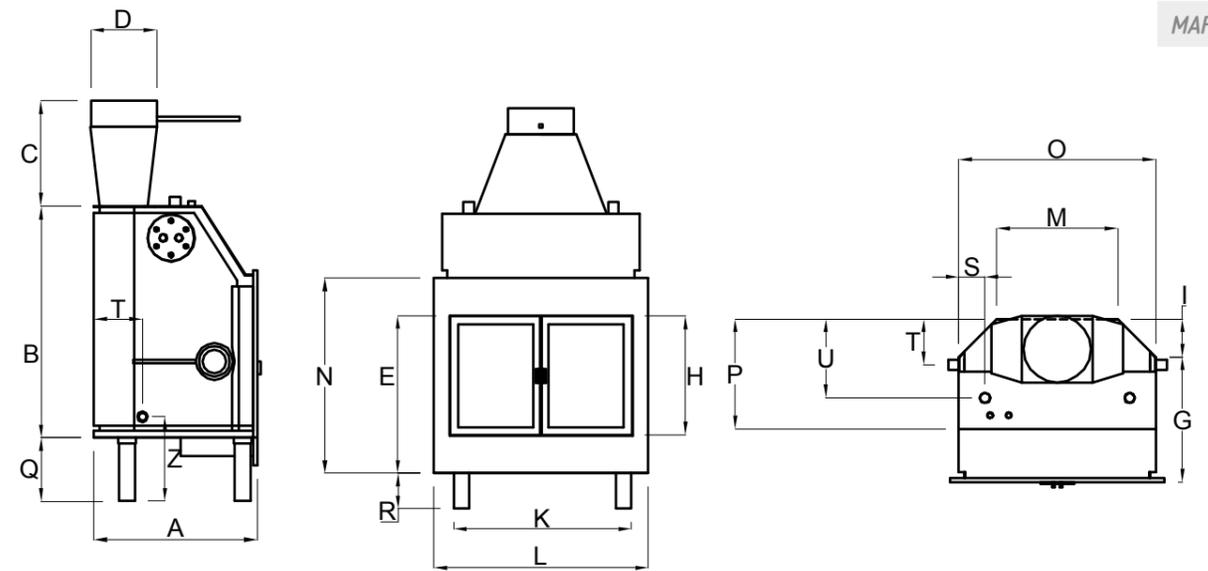
(**) The values have been calculated taking a heating requirement of 35 [W/m3] as a reference.

Frascel - Marix - Panoramico » Technical specifications

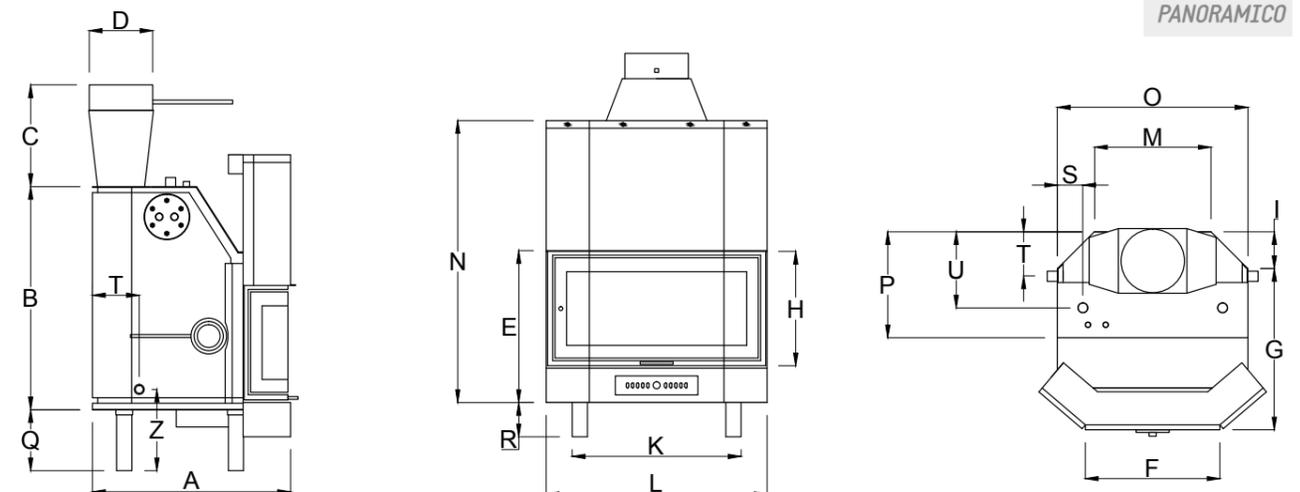
FRASCCEL



MARIX



PANORAMICO



Plant kits

Indispensable for those plants where a gas boiler already exists and part of the home cannot be used as a boiler room. These kits have a double pump, appropriately sized heat exchanger and control unit and they represent the perfect synthesis of the nerve-centre of the heating plant all contained in just one box. All the parts of the plant that must otherwise be realised by the installer are enclosed in just one box. Kits available:

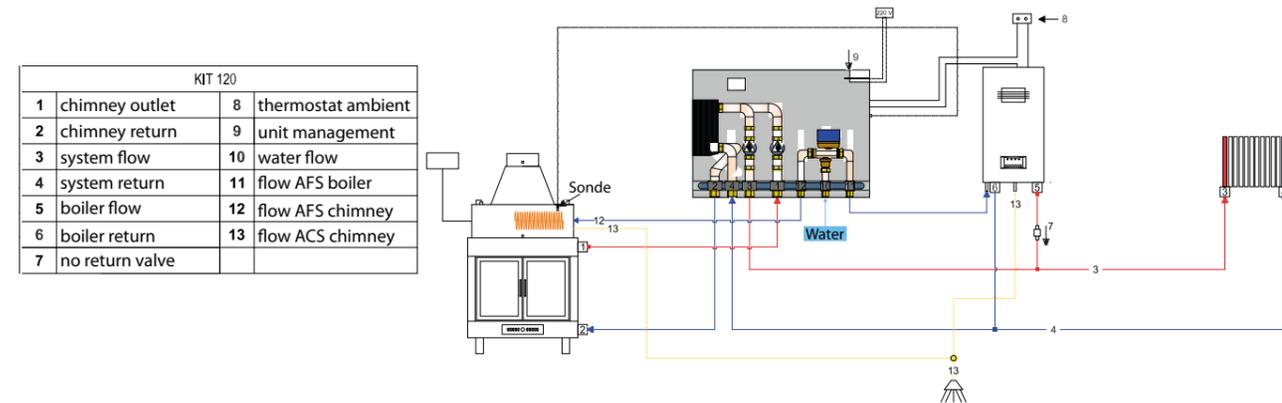
Hydro Kit: primary circuit (vessel open) and secondary circuit (vessel closed) separation

100 Kit: boiler/chimney interface module

120 Kit: boiler/chimney interface module with domestic hot water production system

200 Kit: module for domestic hot water production/heating interfacing

300 Kit: boiler/chimney interface module with heat exchanger for domestic hot water



Hopper and Bench for Frascal - Marix - Panoramico

Technical specifications

Automatic loading devices*

Two types of tanks have been designed to store the fuel (biomass type). The automatic loading devices can be installed successively and allow to burn biomass fuels. They are available in two versions: hopper and bench. The latter is recommended for indoor rooms as it is developed width wise. The hopper version is recommended for outdoors as it allows a large amount of fuel to be stored.

The system has been designed in a way that the entire structure of the loading device can rotate 210 degrees around the fireplace heating system. Therefore, the two devices can be mounted both laterally and at the rear. Moreover, thanks to the possibility of lengthening the transport pipe, they can be positioned in an adjoining room. The new versions have been designed in a way to move the loading system, leaving just the silo in the direction of the wall. These devices are managed entirely by an electronic control unit which controls the functionality and allows modulation of the power, once the desired temperature has been reached.

Notes: (*) available for combined thermo-stove\biomass fuels only.

HOPPER



BENCH



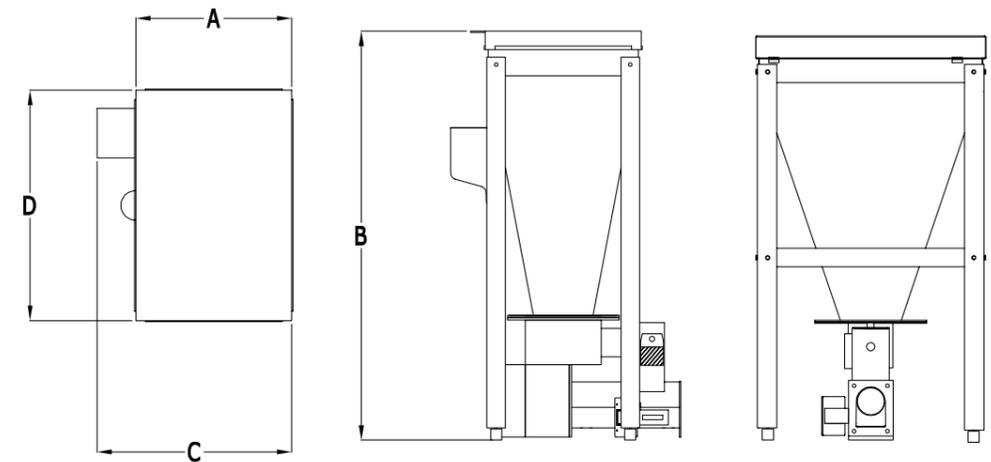
Hopper and Bench for Frascal - Marix - Panoramico

Technical specifications

Parameters/Model	Bench	Hopper
Dimensions		
A [mm]	710	420
B [mm]	655	1165
C [mm]	870	530
D [mm]	390	620
Peso [kg]	90	100
Fuel		
Type	Wood, maize, olive pit, pellets, olive pomace	
Capacity tank [Lit / Kg-Pellet]	65/40	90/60
Info		
Optionals	Automatic ignition, cochlea extension up to 2 metres	
Standard	Automatic management, pellet level sensor	
Power supply [W]	Min 25 W / Max 600 W to 230 V 50 Hz	
Fuel consumption (Mod. 20000/30000) [kg/h]*	4,5/7,0	4,5/7,0

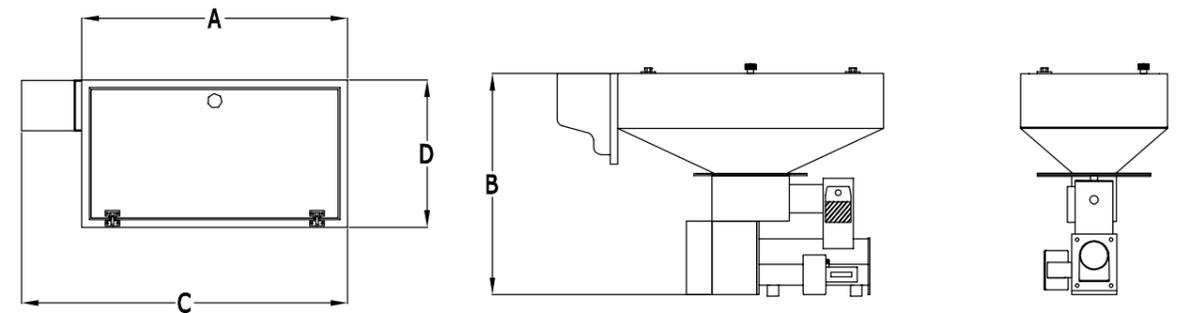
COCHLEA OUTPUT

HOPPER

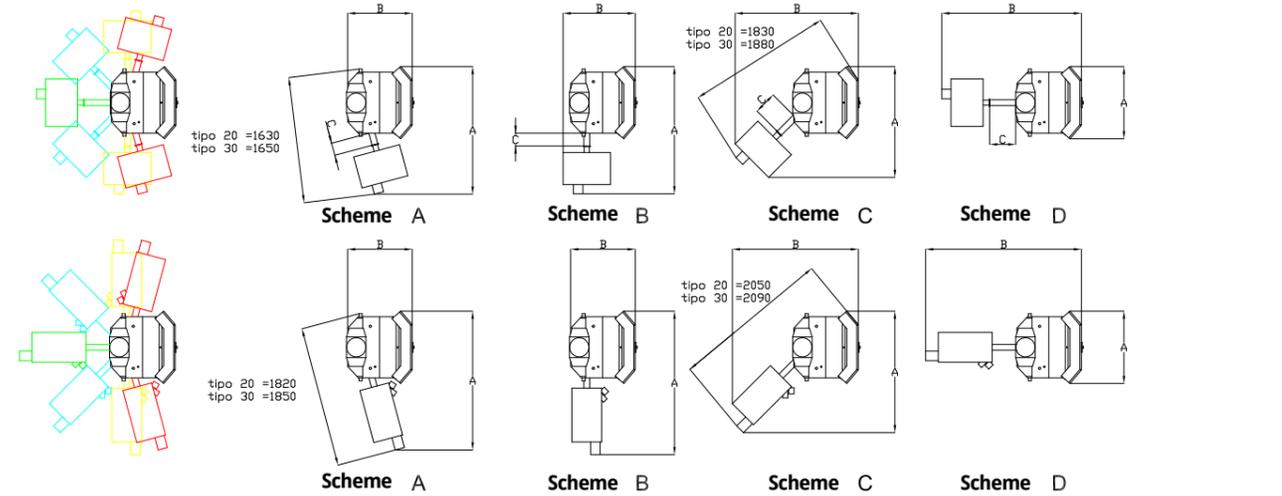


BENCH

COCHLEA OUTPUT

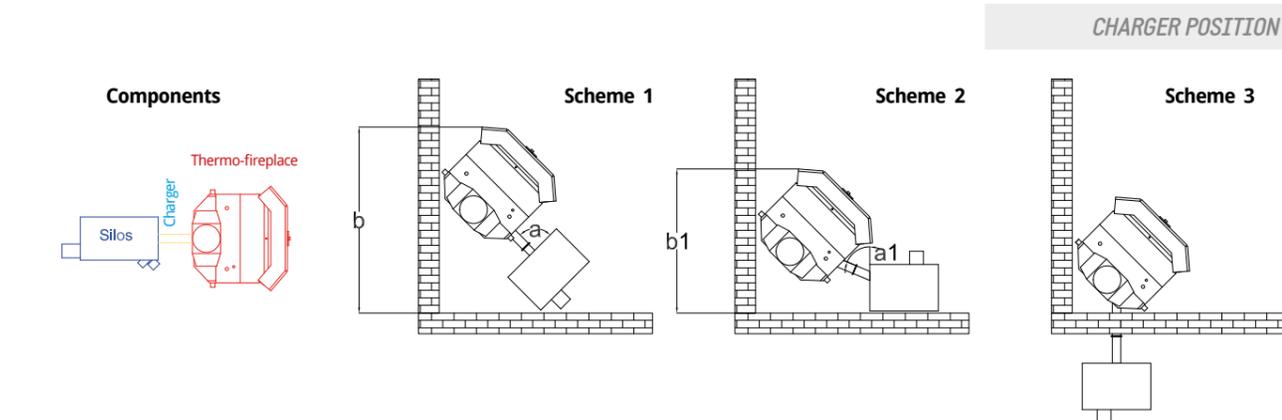


Hopper and Bench » Technical specifications



Panoramico Hopper	Scheme A			Scheme B			Scheme C			Scheme D			Panoramico Bench	Scheme A			Scheme B			Scheme C			Scheme D			
	A	B	C	A	B	C	A	B	C	A	B	C		A	B	C	A	B	C	A	B	C	A	B	C	
Model 20 [mm]	1650	780	100	1640	900	190	1430	1570	250	870	1790	360	Model 20 [mm]	1790	780	100	1850	780	190	1670	1600	250	870	2000	360	
Model 30 [mm]	1670	825	0	1670	925	170	1450	1610	240	920	1810	360	Model 30 [mm]	1820	825	0	1880	825	170	1590	1650	240	920	2450	360	
Inclination	75°			90°			135°			180°			Inclination	75°			90°			135°			180°			
Frascel Hopper	Scheme A			Scheme B			Scheme C			Scheme D			Frascel Bench	Scheme A			Scheme B			Scheme C			Scheme D			
	A	B	C	A	B	C	A	B	C	A	B	C		A	B	C	A	B	C	A	B	C	A	B	C	A
Model 20 [mm]	1610	790	100	1600	800	190	1390	1470	250	820	1680	360	Model 20 [mm]	1760	750	100	1820	700	190	1530	1500	250	820	1900	360	
Model 30 [mm]	1630	790	0	1630	860	170	1410	1530	240	860	1750	360	Model 30 [mm]	1760	760	0	1840	760	170	1550	1570	240	860	1960	360	
Inclination	75°			90°			135°			180°			Inclination	75°			90°			135°			180°			
Marix Hopper	Scheme A			Scheme B			Scheme C			Scheme D			Marix Bench	Scheme A			Scheme B			Scheme C			Scheme D			
	A	B	C	A	B	C	A	B	C	A	B	C		A	B	C	A	B	C	A	B	C	A	B	C	A
Model 20 [mm]	1600	790	100	1600	710	190	1385	1390	250	815	1600	360	Model 20 [mm]	1760	750	100	1820	620	190	1530	1430	250	815	1820	360	
Model 30 [mm]	1630	790	0	1630	780	170	1410	1500	240	865	1680	360	Model 30 [mm]	1780	750	0	1840	690	170	1550	1500	240	865	1890	360	
Inclination	75°			90°			135°			180°			Inclination	75°			90°			135°			180°			

C, minimum distance between thermo-fireplace e Silos



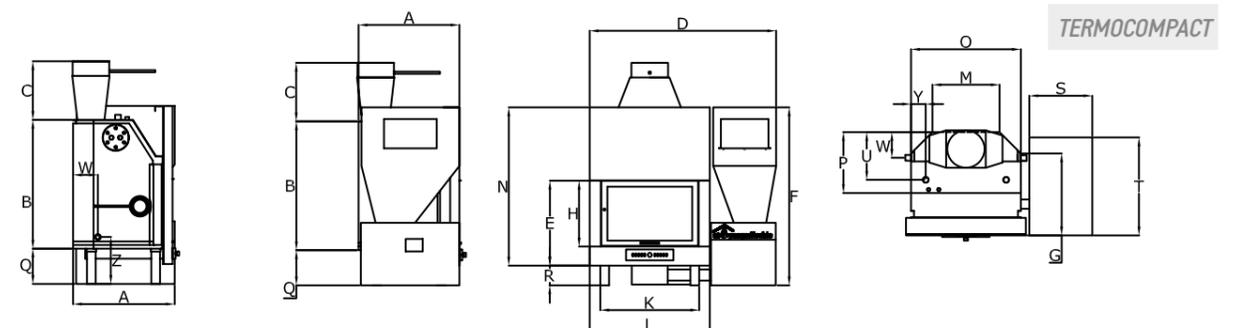
Termocompact » Technical specifications

Parameters/Model	Termocompact 20	Termocompact 30
Power		
Chimney [kW]	23,20	34,80
Nominal power [kW]	18,56	27,84
Chimney [kcal/h]	20000	30000
Nominal power [kcal/h]	16000	24000
Thermal power fluid [KW]	14,86	22,14
Thermal power air [KW]	3,70	5,70
Dimensions		
A [mm]	690	750
B [mm]	880	930
C [mm]	400	400
D [mm]	1280	1320
E [mm]	580	630
F [mm]	1285	1285
G [mm]	550	610
H [mm]	450	500
K [mm]	670	710
L [mm]	820	860
M [mm]	460	500
N [mm]	1080	1180
O [mm] (dimensions with Kit Idro)	750 (950)	800 (1000)
P [mm]	410	470
Q [mm]	240	240
R [mm]	135	125
S [mm]	430	430
T [mm]	670	670
U [mm]	320	350
W [mm]	170	170
Y [mm]	100	100
Z [mm]	330	330
Chimney [mm]	250	
Weight [kg]	320	320
Fuel		
Type	Wood, maize, olive pit, pellets, olive pomace	
Capacity tank [Lit / kg - Pellet]	130/85	
Hydraulics		
Water connection system [Inches]	1"	
Water connection [Inches]	1/2"	
Max pressure [bar]	2	
Water capacity [Lit]	70	90
Info		
Optionals	Domestic hot water, spit, system kit.	
Fuel consumption [kg / h]*	3,5	5,5
Heating surface [m3]**	450	750

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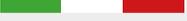
Notes: (*) the values have been calculated taking a fuel with calorific value below 5 [kW * h/kg] as a reference.

(**) The values have been calculated taking a heating requirement of 35 [W/m3] as a reference.



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