





## **SAFETY AND SERVICE FOR THE COMFORT MARKET**

The innovative idea behind the setting up of NATALINI in 1981 involved the design and construction of a draught activator.

Over the years, NATALINI has progressively extended its product range to include components and accessories for heating systems and domestic fume extraction.

On the basis of its experience, NATALINI now offers a wide range of electric fans, extraction systems and fume exhaust kits with innovative features. By working closely with research institutes, the NATALINI technical team collaborates with customers to offer a complete project development service, making their in-house laboratory facilities available for joint developments.

NATALINI complies with the UNI - EN ISO 9001:2000 Quality System.

Depending on the application, products are certified by specialist bodies in various countries such as TÜV, GASTEC, UL, CSA and NEMKO.

Since it was founded, research and Development has always been a priority and technical aspects are always at the heart of the corporate philosophy, enabling the company to consistently offer the right response to every demand.

The company has therefore become a qualified supplier to leading Italian and European heating system manufacturers.

Natalini is a company of SIT Group.

SIT is a world leader in a technologically advanced and highly competitive market: gas combustion control systems for domestic heating, industrial cooking, gas-fuelled vehicles and large household appliances.



**Laser welding**



**Die casting**



**Measurement and testing instrumentation**



**Electronics  
Laboratory  
Testing**



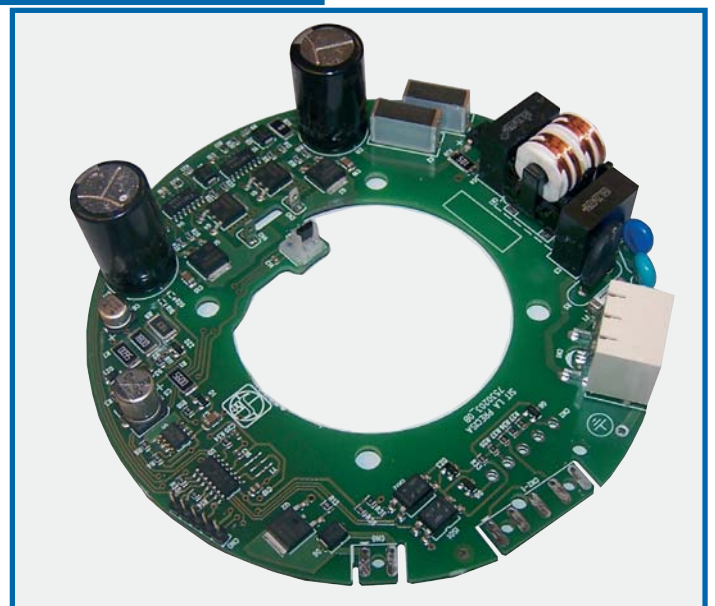
## BRUSHLESS FANS

Developed for use in condensing boilers with premix burners. Fitted with brushless direct-current motors, they provide the correct quantity of air/gas to the burner by means of mixing systems on the intake.

The fans are designed to couple high compactness with considerable performance; fans generate high pressures (up to 3,000 Pa) and adapt to combustion modulation through fine regulation of the number of revolutions.

Three principal models are available:

- Controlled by 230 V AC electronic board
- Controlled by 24 V DC electronic board
- Without electronic board, with hall sensor only.



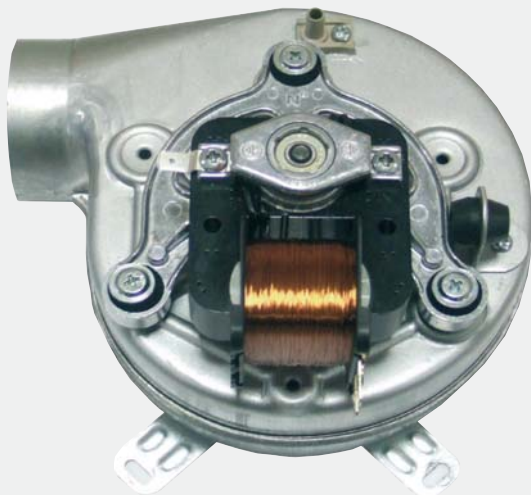
## ELECTRIC FANS

Includes a vast range of electric fans for fume extraction for use with room sealed gas-fired boilers.

Available in various models with different sizes and performance characteristics to satisfy the numerous variables of this category of boilers.

Each fan can be adapted to the specific application by a combination of types of motor, screw, impeller and pressure sensor, designed and produced by NATALINI.

The comprehensive and innovative product range is supported by the possibility to test specific applications in NATALINI laboratories.



## ELECTRIC FANS FOR PELLET STOVES

The new EVP series is the NATALINI response to the need for new solutions in the field of renewable energies with solid fuels.

Pellet stoves are the application field of this new fan and it has been designed to produce pressure until 300 Pa with 140 m<sup>3</sup>/h capacity covering a wide power range from 5 to 20KW.

The extremely compact EVP can be easily fitted to any application thanks to a size of only 140mm in height.

Outlet and fixing brackets can be customized depending on customers' requests.

The unique design of the fan guarantees the maximum working efficiency with the lowest numbers of turns, increasing the product life and decreasing the noise level.

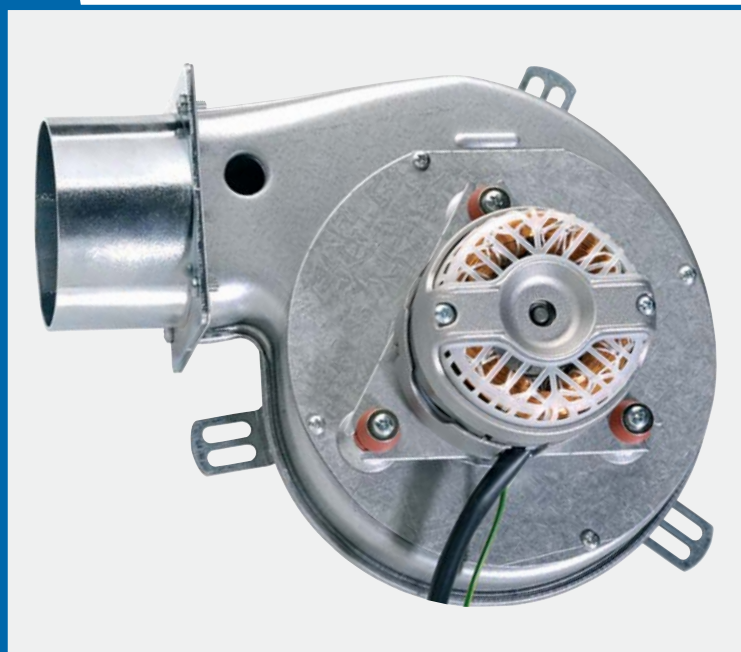
Furthermore the fan blades numbers and their shape reduce to minimum the combustion residual dry substances.

The product is in compliance with the most recent European directives on solid fuels.

Available on request:

- o Speed sensor
- o Custom outlet connections
- o Temperature probe housing.

Reference standards : - EN60335-1  
- cCSAus



## FUME EXHAUST SYSTEMS

Designed for use in various types of heating installation.

The range includes appropriately protected horizontal or roof exhaust terminals tested for compliance with safety standards and regulations (EN 483, EN1020) and satisfying the most stringent aerodynamic requisites.

Extensions, elbows with different curvatures and various adapters complete the range, providing an answer to all technical and installation requirements in full respect of current legislation.

Products are available in various materials such as aluminium, plastic, aluminised or galvanised sheet metal (with natural finish or painted in various colours) and stainless steel.

All materials are carefully chosen to satisfy the demands of the customer and in full compliance with current regulations and standards (EN 1443, EN1856).

Close and dynamic collaboration between heating system fabricators, NATALINI, the laboratories of certification bodies and universities has led to development of a series of products suitable for all installations.

Today NATALINI can offer a wide range of flue exhaust terminals for different outputs and complying with the specific regulations in the countries where the system is installed.

As well as the design, the different balances between incoming air and outgoing fumes have led to development of a range of terminals, now available for customers and offering exceptional versatility.

Available for both concentric and separate ducts with roof or wall outlets, they guarantee maximum performance within the limit working temperatures (from -15°C to 250 °C).

### TRADITIONAL



## FUME EXHAUST SYSTEMS

### CONDENSING

NATALINI has developed a wide range of **siphons** in order to collect and discharge condensates out of boilers and other appliances.

The range includes siphons with and without float. The aim of the float is to prevent the flow of flues from the combustion chamber and maintain the air tightness of the combustion chamber, even when the boiler has been off for a long time, when the liquid in the siphon has evaporated and in case of first ignition of the boiler.

Extra tubes have been added to drain the liquid, so that the possibility of flooding of the combustion chamber is eliminated even when the normal outlet is blocked.

The siphons have been designed to resist to a maximum pressure from 76,2 mmH<sub>2</sub>O up to 110 mmH<sub>2</sub>O. The capacity starts from 3.3 liter/min up to 16 liter/min.

The last siphon developed in NATALINI, thanks to a pressure or electrical control, can keep a check on the float blocking and the outlet blockage.



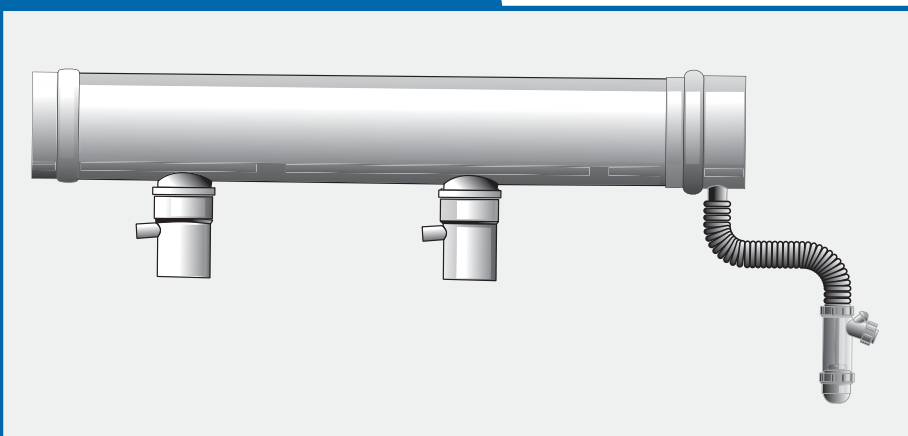
NATALINI has developed a new product line of **Clape' Cascade** to manufacture the flue exhaust system for condensing boilers in cascade up to 4 modules of 50 kW.

The system, manufactured in plastic materials - polypropylene - suitable for this application meets the regulations in place such as the EN 483, EN 14471.

The needed pipes will have diameters ranging from 110 mm to 160 mm.

Fittings, adapters, plugs and condensing drains will be also included the range.

An integral part of the system is the safety valve.





## FUME EXHAUST SYSTEMS

### CONDENSING

Condensing boilers require different characteristics from traditional boilers, both in terms of the materials used and the specifications. These differences result in terminals and accessories of different shapes and sizes.

The lower exhaust fume temperatures have led to the widespread use of self-extinguishing plastic, but other materials are also available with alloys and thicknesses complying with current regulations and standards (EN 1443, EN 1856 and EN 14471).

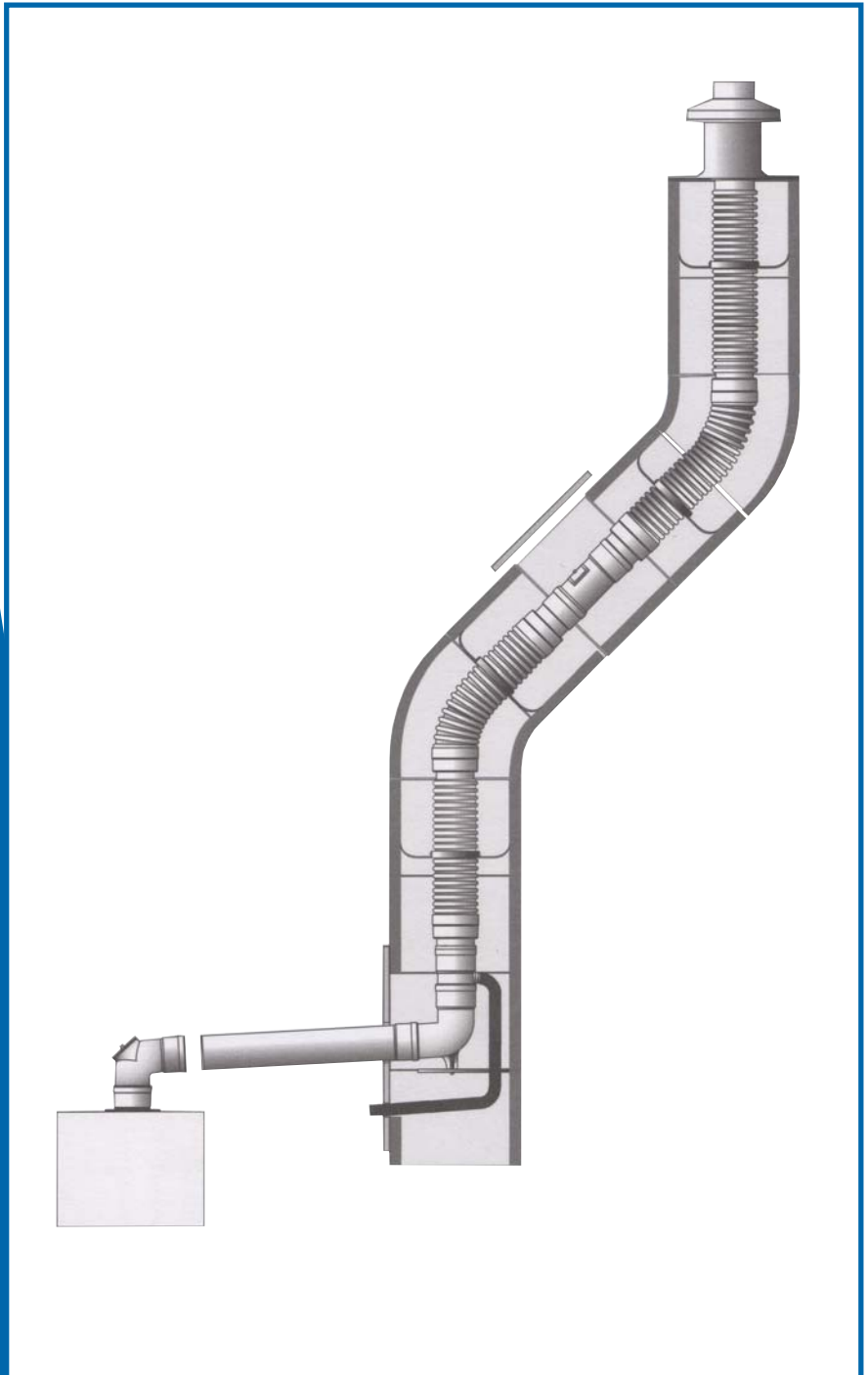
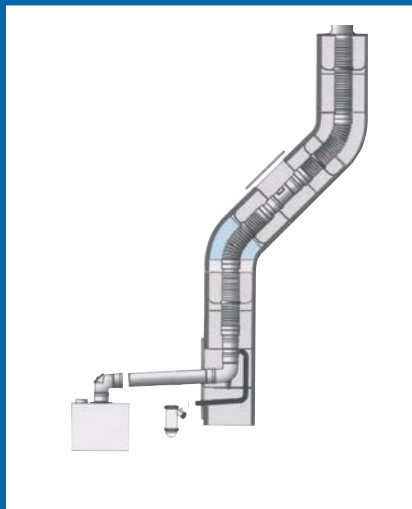
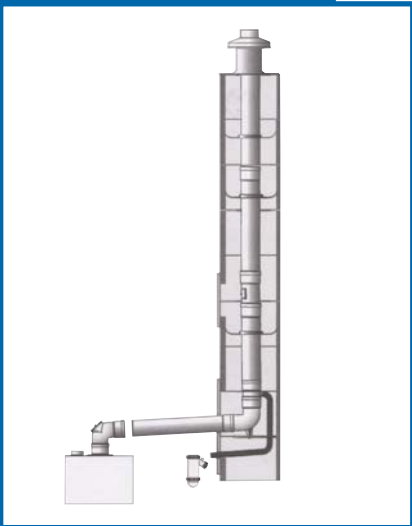
The characteristics of the products satisfy the tests of certification bodies, particularly with regard to low temperature use and installation (down to -15°C).



## OUTLET TUBED SYSTEMS

Available exclusively for condensing boilers, made from self-extinguishing polypropylene and for use with rigid or flexible ducts.

A wide range of components is also available for this system, including elbows, extensions, adapters and brackets to facilitate installation and meet the demands of different applications.





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