BIODOM

BIOMASS HEATING

PELLET BOILER
BIODOM 27





BOILER CLASS 5 TO EN 303-5:2021+A1:2022
A boiler that offers lasting comfort and low heating costs.

ENERGY CLASS
A+

RATED HEAT OUTPUT
26 kW

ADVANTAGES

- ✓ Biologic technology
- ✓ High efficiency
- ✓ Low emissions
- ✓ Automatic combustion adjustment
- ✓ Easy operation
- ✓ Compact design

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PELLET BOILER

BIODOM 27

A MODERN AND ECOLOGICAL WAY OF HEATING WITH WOOD PELLETS

The reliability of the Biodom 27 boiler is the result of many years of investment in the development of biomass heating systems and of practical experience in their installation and maintenance. Biodom 27 is a system for the complete combustion of wood biomass, with automatic ignition and pellet feeding. With Biologic technology, the boiler adapts itself to changing operating conditions, enabling optimal efficiency and stable operation.

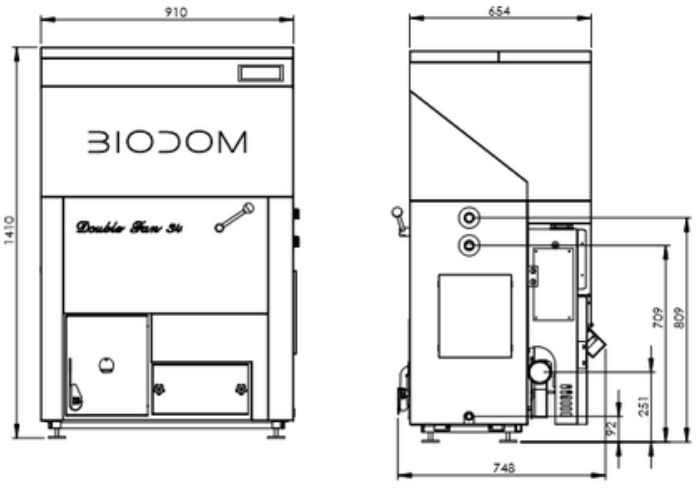
The BioLogic system automatically detects and regulates all conditions for combustion and for heat transfer from the flue gases to the water, while also recognising the pellet quality and adjusting the rate at which pellets are fed into the burner accordingly. It also detects the air density and, through automatic control, always ensures the correct amount of combustion air in the burner, regardless of the supply voltage of the boiler and the altitude.

The programmable timer supports weekly operation settings, and the entire process can be monitored on a clear display.

Combustion air and flue gases are extracted by a fan that creates negative pressure, through forty turbulator tube exchangers which, over a long path, ensure optimal heat transfer from the flue gases to the heating medium. Thanks to the extremely fast start-up, the igniter has a very long service life, the boiler responds quickly and fuel consumption during ignition is minimal.

A special start-up algorithm prevents overfilling of the combustion chamber, and thus smoke in the boiler and unpleasant odours in the boiler room. As the boiler runs with CONTROLLED negative pressure in the chamber, combustion is independent of the chimney, and a special safety mechanism shuts the boiler down if the pressure inside is above ambient.

If the air supply is blocked, the boiler automatically runs the exhaust fans at full power and shuts down in a controlled manner. Quality workmanship, a modern exterior design, exceptional flexibility and reliable operation are just some of the features that guarantee you comfort, safety and savings.



TECHNICAL SPECIFICATIONS

Energy efficiency class	**A+**
Rated heat output	**26 kW**
Energy efficiency index EEI	**121**
Seasonal energy efficiency	**82 %**
Minimum heat output	**6,9 kW**
Flue connection	**Ø 80 mm**
Water content	**69 l**
Power supply	**230 V / 50 Hz**
Pellet hopper	**180 kg**
Pellet use per hour	**1,5 - 5,7 kg/h**
Dimensions H x W x D	**1410 × 910 × 660 mm**
Weight:	**266 kg**

SEASONAL EMISSIONS AT 10% O_2

PM	OGC	CO	NOx
13 mg/m³	2 mg/m³	74 mg/m³	146 mg/m³

ADVANTAGES

- BIOLOGIC CONTROL SYSTEM
- AUTOMATIC PELLET QUALITY RECOGNITION
- MAXIMUM EFFICIENCY AND MINIMUM EMISSIONS
- TWO-FAN TECHNOLOGY
- LOW PELLET CONSUMPTION
- AUTOMATIC RESTART AFTER POWER FAILURES
- EASY INSTALLATION AND EXCEPTIONAL FLEXIBILITY

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