

# BIODOM

BIOMASS HEATING SYSTEMS

PELLET BOILER

**BIODOM 27 DESIGN VALTER**



Certified  
EN 303-5 Class 5

Environmentally  
friendly heating  
that provides  
comfort and  
savings.

**BIO LOGIC**



[WWW.BIODOM27.SI](http://WWW.BIODOM27.SI)

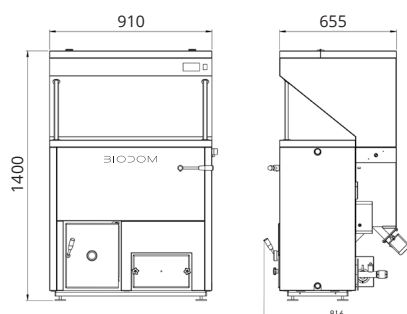
# BIODOM 27 DESIGN VALTER

## THE BIODOM 27 BOILER REPRESENTS A MODERN AND ECOLOGICAL METHOD OF HEATING WITH WOOD PELLETS.

The reliability of the Biodom 27 boiler is the result of many years of investments into the development of biomass heating systems and practical experiences in their installation and maintenance. Biodom 27 is a system of complete combustion of wood biomass, including an automatic ignition and pellet feed. With its BioLogic technology, the boiler adjusts to changing operating conditions, thereby ensuring optimal efficiency and stable operation throughout the years of operation.

The BioLogic system automatically detects and regulates all conditions for combustion and transfer of heat from flue gases to water, and at the same time detects the pellet quality and consequently changes the pellet feeding speed into the burner. It also detects the density of air and uses automatic regulation to ensure that there is always the right supply of combustion air fed into the burner, independently of boiler power voltage and elevation above sea level. The

programmable clock allows operation settings for a full week, which can be monitored with the view screen throughout the whole process. The daily-weekly pellet storage is integrated into the upper section of the boiler, which uses a motorised drive, attached to the top of a screw conveyer, to feed the fuel into the furnace made from a special alloy that can handle high temperatures in the combustion chamber. We therefore achieve perfect combustion, clean flue gases, and a long service life of the boiler. With the help of a fan that creates negative pressure, the combustion air and flue gases are vented through forty tube heat exchangers – turbulators, which ensure an optimal transfer of heat from the flue gases to the heated medium along a long path. Due to its extremely quick start, the service life of the ignition cap is very long, the responsiveness of the boiler fast, and the use of fuel during ignition minimal. Quality construction, modern exterior design, exceptional customisation, and reliable operation are just a few of the features that provide comfort, safety, and savings.



### TECHNICAL SPECIFICATIONS

heating surface	80 - 450 m <sup>2</sup>
thermal power	30.8 kW (8.6 - 30.8 kW)
efficiency	over 92%
flue gasses tube diameter	Ø 80
boiler water quantity	74 l
power supply	230 V 50 Hz
pellet reservoir capacity	180 kg
pellet consumption	min: 1.9 kg/h, max: 6.8 kg/h
dimensions H x W x D (cm)	140 x 91 x 65
weight	280 kg

### ADVANTAGES

- ▶ **BIOLOGIC CONTROL SYSTEM:**
- ▶ HIGH EFFICIENCY IN ALL OPERATING CONDITIONS
- ▶ QUICK START
- ▶ PERFECT, CERTIFIED SAFETY
- ▶ AUTOMATIC DETECTION OF PELLET QUALITY
- ▶ MAXIMUM EFFICIENCY AND MINIMAL EMISSIONS
- ▶ SEAMLESS RESTART ON POWER FAILURE
- ▶ AUTOMATIC POWER ADJUSTMENTS
- ▶ SIMPLE INSTALLATION AND EXCEPTIONAL ADAPTABILITY
- ▶ SMALL NUMBER OF REPLACEMENT PARTS REDUCED THE COSTS OF MAINTENANCE

BIODOM27

Biodom 27 d.o.o.

OIC Hrpelje 4a  
6240 Kozina  
Slovenia

T: +386 (0)5 662 67 50

F: +386 (0)5 662 67 57

E: info@biodom27.si  
www.biodom27.si

www.biodom27.si