BIODOM

CATALOGUE PRODUCTS



BIODOM

heating systems
biodom

For many years, Biodom has
been developing heating systems that ensure low heating
costs, reliability and an always warm home, without compromise
on comfort.

Modern design, new technologies, easy maintenance, reliability and annual savings on heating costs are arguments that will convince you that Biodom heating systems are the right solution for heating your home.





1. pellet boilers

To claim the warranty on Biodom boilers, the first start-up must be carried out by our authorised installer. The start-up is already included in the boiler price at no extra charge. All boilers have a 2-year warranty on all components and a 5-year warranty against leaks.

BIODOM 21

EFFICIENT PELLET BOILER

- Efficiency above 92%
- Extremely low flue gas emissions
- Automatic ignition and pellet feeding
- **Weekly pellet hopper 140 kg**
- BIOLOGIC control unit ensures high efficiency in all operating conditions
- Automatic pellet quality recognition, automatic power adjustment and restart after a power failure
- Automatic restart after a power failure
- Weekly programmable operation
- Simple, intuitive operation
- Complies with EN 303-5:2012 - class 5
- Energy efficiency class: A+



FITTED IN THE BOILER **AT THE FACTORY:**

- high-efficiency circulation pump
- hydraulic separator and safety valve

Model	Heat output	Dimensions (w/h/d)
BIODOM 21	5.8 - 19.7 KW	720 X 1360 X 660 MM

BIODOM 27 C5

EFFICIENT PELLET BOILER

- **Efficiency above 92%**
- Extremely low flue gas emissions
- Automatic ignition and pellet feeding
- **Weekly pellet hopper 180 kg**
- The BIOLOGIC control unit ensures high efficiency in all operating conditions, automatic pellet quality recognition, automatic power adjustment and restart after a power failure
- Weekly programmable operation
- Simple, intuitive operation
- Complies with EN 303-5:2012 - class 5
- Energy efficiency class: A+



FITTED IN THE BOILER AT THE **FACTORY:**

- high-efficiency circulation pump
- hydraulic separator and safety valve

Model	Heat output	Dimensions (w/h/d)
BIODOM 27 C5	7.8 - 29.6 KW	910 X 1400 X 660 MM

BIODOM

2. automatic self-cleaning pellet boilers

BIODOM C15 AND C15 L

EFFICIENT PELLET BOILER

- **Efficiency above 93%**

• Extremely low flue gas emissions • Automatic ignition and pellet feeding • **Pellet hopper 60 kg; with an additional silo this increases to 140 kg** • Modern and attractive appearance

• The BIOLOGIC control unit ensures high efficiency in all operating conditions and automatic pellet quality recognition, automatic power adjustment and restart after a power failure • Weekly programmable operation • Simple, intuitive operation

• Complies with EN 303-5:2012 - class 5

• Energy efficiency class: A+

FITTED IN THE BOILER AT THE **FACTORY:**

• high-efficiency circulation pump • 8 L expansion vessel and safety valve





Model	Heat output	Dimensions (w/h/d)
BIODOM C15	5 - 17.1 KW	570 X 1200 X 790 MM
BIODOM C15 L	5 - 17.1 KW	570 X 1700 X 790 MM

BIODOM 27 A

EFFICIENT SELF-CLEANING PELLET BOILER

• Efficiency above 92%

• Automatic burner and heat exchanger cleaning system

• LCD touchscreen tablet - IQ2

• Manual cleaning recommended after every 1 tonne of pellets

- **Weekly pellet hopper 180 kg**

BIOLOGIC control unit ensures high efficiency in all operating conditions • Automatic recognition of pellet quality, automatic power adjustment and restart after a power failure • Built-in weather-compensated system control - IQ2

• Wi-Fi control

• Complies with EN 303-5:2012 - class 5

• Energy efficiency class: A+



FITTED IN THE BOILER AT THE **FACTORY:**

• high-efficiency circulation pump

• hydraulic separator and safety valve

Model	Heat output	Dimensions (w/h/d)
BIODOM 27 A	7.6 - 25.3 KW	1430 X 910 X 650 MM

fireplace stoves

BIODOM H20

EFFICIENT HOT-WATER PELLET STOVE

- **The warmth of a fireplace stove and a central heating boiler**
- Efficiency above 97%
- Extremely low flue gas emissions
- Automatic ignition and pellet feeding
- **Pellet hopper 45 kg**
- Modern and attractive appearance
- The BIOLOGIC control unit ensures high efficiency in all operating conditions, automatic pellet quality recognition, automatic power adjustment and restart after a power failure
- Simple, intuitive operation
- **FACTORY-FITTED: high-efficiency circulation pump, 8 L expansion vessel and safety valve**
- Complies with EN 303-5:2012 - class 5
- Energy efficiency class: A++



AVAILABLE IN COLOURS

Model	Heat output	Dimensions (w/h/d)
BIODOM H20	5.7 - 18.3 KW	570 X 1200 X 600 MM

4. log gasification boilers

As a novelty, Biodom launched log gasification boilers on the market in 2020. Compared with conventional boilers, log gasification boilers have higher efficiency and therefore lower fuel consumption. Biodom gasification boilers are practical and flexible, made of durable materials and have low emissions.

BIODOM X

EFFICIENT WOOD BURNING - A COMPLETE WOOD BIOMASS COMBUSTION SYSTEM WITH ADVANCED CONTROL

- Standard EN 303-5, ECODESIGN
- Maximum log length 50 cm
- Efficiency above 90%
- Energy class A+
- Firebox volume over 90 L
- Quality workmanship
- Modern exterior design and electronic control board with useful functions • Double-layer loading chamber • High efficiency with increased heating surface
- Simple, intuitive operation and easy boiler cleaning
- Extremely low flue gas emissions



Model	Heat output	Dimensions (w/h/d)
BIODOM X 18	18 KW	545 X 1325 X 1160 MM
BIODOM X 25	25 KW	595 X 1425 X 1175 MM
BIODOM X 32	32 KW	595 X 1475 X 1175 MM
BIODOM X 50	48 KW	695 X 1545 X 1270 MM

EXTENDED WARRANTY FOR BIODOM BOILERS

WARRANTY EXTENDED TO 5 YEARS FROM BOILER START-UP

When the boiler is installed, you receive an extended 5-year warranty. The extended warranty includes **regular annual servicing of the heating appliance.**

5. accessories for pellet boilers

BIODOM IQ1

CONTROL UNIT

IQ1 is a touchscreen controller designed exclusively for Biodom boilers.
It controls one direct circuit, domestic hot water priority and one heating circuit, for which it automatically selects a heating curve according to the heat demand of the building. IQ1 also controls the boiler by adjusting the required boiler water temperature to the outdoor temperature. Everything can be monitored via Wi-Fi, and the unit is connected to the Biodom cloud, which stores the history of all events for the past three years. The customer, service technician or pellet supplier can access individual information by paying for additional (time-limited) functions. The IQ1 controller can be retrofitted to Biodom boilers (manufactured after 2015) or installed when purchasing a new boiler.



Model	Compatible with	Available
IQ1 (with LED control board)	• Biodom H20 • Biodom C15 • Biodom 21 • Biodom 27 C5	• with brackets • in a frame

BIODOM IQ2

CONTROL UNIT

IQ2 is a system controller designed for Biodom heat pumps, but it is also suitable for systems with other heat sources. IQ2 always manages the heat pump so as to avoid unnecessary losses (defrosting or operation at low COP) and then gives priority to another energy source (oil, gas, pellets, etc.). The mixing circuits have adaptive heating circuit control: after a while the system selects the most efficient heating curve and keeps adapting it (it practically never switches the heating off).



- LED display
- Biodom Cloud
- Automatic weather curve
- Wi-Fi control

THE IQ2 HEATING CONTROLLER CAN CONTROL:

- Biodom heat pump
- Secondary heat source (pellet, oil or gas boiler)
- Three mixing heating circuits
- Buffer tank
- Solar collectors
- Domestic hot water preparation in two modes (storage or instantaneous).

BIODOM PUMP SETS



Biodom pump sets with a high-efficiency electronic circulation pump.

- Electronic pump WILO Yonos Para 25/6, PN6, 3-45 W, 50-60 Hz / 230 V
- 2-year warranty
- Built-in non-return valve
- Maximum flow rate 2400 l/h, maximum pressure 6 bar
- Thermal insulation
- Bracket for direct wall mounting

Type	Connection	Dimensions (w/h/d)	Distance between connections
PUMP SET DIRECT	DN 25	250X400X170MM	125MM

- Built-in bypass valve - ensures water circulation

Type	Connection	Dimensions (w/h/d)	Distance between connections
PUMP SET MIX 3	DN 25	250X400X170MM	125MM

- Built-in three-way mixing valve (motor actuator can be added)

Type	Connection	Dimensions (w/h/d)	Distance between connections
PUMP SET MIX 4	DN 25	250X400X170MM	125MM

- Built-in four-way mixing valve (motor actuator can be added)

6. heat pumps

BIODOM VULKAN air-to-water monoblock heat pumps run on the natural refrigerant R290 and heat efficiently even at outdoor temperatures down to -25 °C. They heat, cool and prepare domestic hot water, and can be combined with a BIODOM pellet boiler into a hybrid system.

BIODOM VULKAN

AIR-TO-WATER MONOBLOCK HEAT PUMP

- Heating power 2.5 - 18.2 kW (A7/W35)
- High efficiency: COP up to 5.29
- Energy class up to A+++
- Natural refrigerant R290 (propane), GWP 3
- Inverter compressor - output adapts to the heat demand
- Reliable operation down to -25 °C outdoor temperature
- Flow temperature up to 70 °C - suitable for radiators
- Heating, cooling and domestic hot water
- Wi-Fi control and remote access
- Quiet operation from 47 dB(A)
- Ready for hybrid operation with a BIODOM boiler



Model	Heating power	COP	Power supply	Dimensions (w/h/d)
VULKAN 6P	2.5 - 6.0 KW	4.16 - 5.21	230 V / 1-PHASE	1080 X 820 X 460 MM
VULKAN 8.3P	3.3 - 8.3 KW	4.01 - 5.17	230 V / 1-PHASE	1080 X 820 X 460 MM
VULKAN 11.4P	4.5 - 11.4 KW	4.00 - 5.29	380 V / 3-PHASE	1080 X 960 X 460 MM
VULKAN 14.8P	5.9 - 14.8 KW	4.01 - 5.22	380 V / 3-PHASE	1080 X 1060 X 480 MM
VULKAN 22P	7.2 - 18.2 KW	4.01 - 5.22	380 V / 3-PHASE	1080 X 1372 X 480 MM

Heating power and COP at outdoor air 7 °C / water 35 °C (A7/W35).
Each model is available with factory-installed controller and Wi-Fi module.

TECHNICAL DATA

BIODOM

COMMON TO ALL VULKAN MODELS

Refrigerant	**R290 (propane), GWP 3**
Operating range - outdoor air	**-25 ... 43 °C**
Water temperature - heating	**20 ... 70 °C**
Water temperature - domestic hot water	**20 ... 65 °C**
Water temperature - cooling	**7 ... 35 °C**
Energy class (35 °C)	**up to A+++**
Water connection	**DN25**
Protection rating	**IPX4**
Control	**Wi-Fi, remote access**
Functions	**heating, cooling, domestic hot water**

COOLING

OUTDOOR AIR 35 °C, WATER 12/7 °C

Model	Cooling power	EER	Noise	Net weight
VULKAN 6P	1.7 - 4.2 KW	3.06 - 3.20	47 DB(A)	105 KG
VULKAN 8.3P	2.4 - 5.8 KW	2.65 - 3.04	47 DB(A)	105 KG
VULKAN 11.4P	3.3 - 8.2 KW	2.50 - 3.06	50 DB(A)	116 KG
VULKAN 14.8P	4.3 - 10.8 KW	2.60 - 3.10	52 DB(A)	130 KG
VULKAN 22P	5.6 - 14.1 KW	2.62 - 3.11	53 DB(A)	166 KG



BIODOM

BIODOM EUROPE srl

www.biodom.eu

info@biodom.eu

+386 41 461 202