

— PELLETECH

Multiauto

Automatic heating from wood chips and many other fuels, for properties, farms and smaller industry.



20–200 kW

OUTPUT RANGE

— FULLY AUTOMATIC OPERATION

Heat that looks after itself.

Multiauto lights itself, cleans itself and discharges the ash. You can spend your time on other things.

PelleTech has been around for over 40 years, and Multiauto came onto the market in 2004. Since then, the boiler has been developed and refined into today's generation. The result of decades of development is a convenient, high-quality and dependable bioenergy boiler in which every detail is carefully considered and crafted – with a very low environmental footprint.

IGNITION

Industrial-grade hot-air igniter

CLEANING

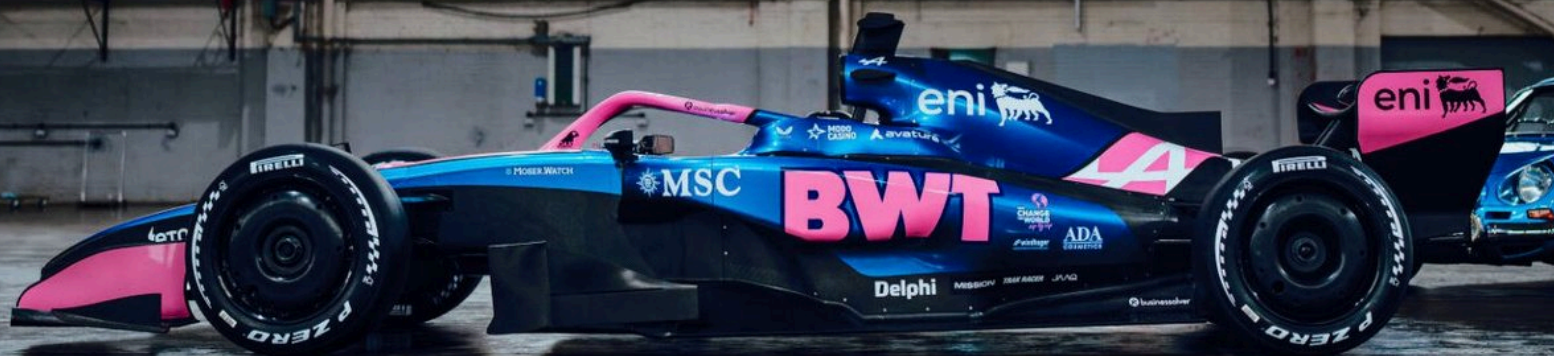
Automatic, in the grate and flue tubes

ASH

Fed automatically to the ash box

DESIGN

Few moving parts, with a minimum of sensors



BWT ALPINE

NEW OWNERSHIP

PelleTech is now part of BWT.

PelleTech, which manufactures Multiauto, IDRO, AERO and BU, has been acquired by BWT, Best Water Technology. Biotherm Heat AB is the general agent for PelleTech in Scandinavia.

1990

BWT founded

6,500+

employees

120+

countries

13

factories

PelleTech®

PART OF



20–200 kW

Output range, in seven versions: 9–22, 18–35, 38–60, 65–100, 135, 150 and 200 kW.



Wood chips

Pellets

Firewood

Logging residues

Sawdust

Wood shavings

Peat

Residues

PELLETECH MULTIAUTO

One boiler,
many fuels.

A fully automatic boiler for properties, farms and smaller industry. Most of our customers burn wood chips or similar material.

MANUFACTURER

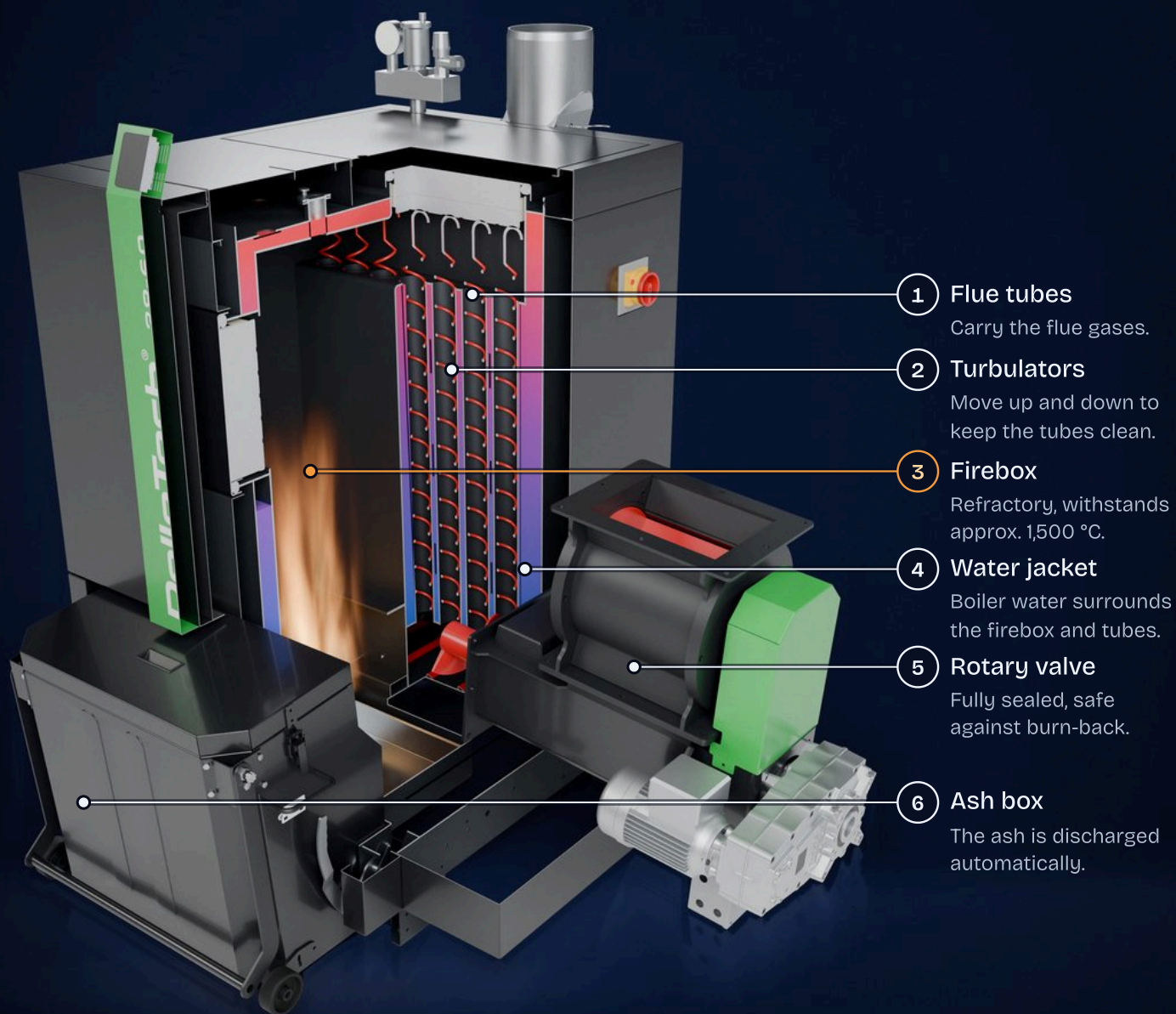
PelleTech, part of BWT →

GENERAL AGENT IN SCANDINAVIA

Biotherm Heat AB →

— HOW MULTIAUTO WORKS

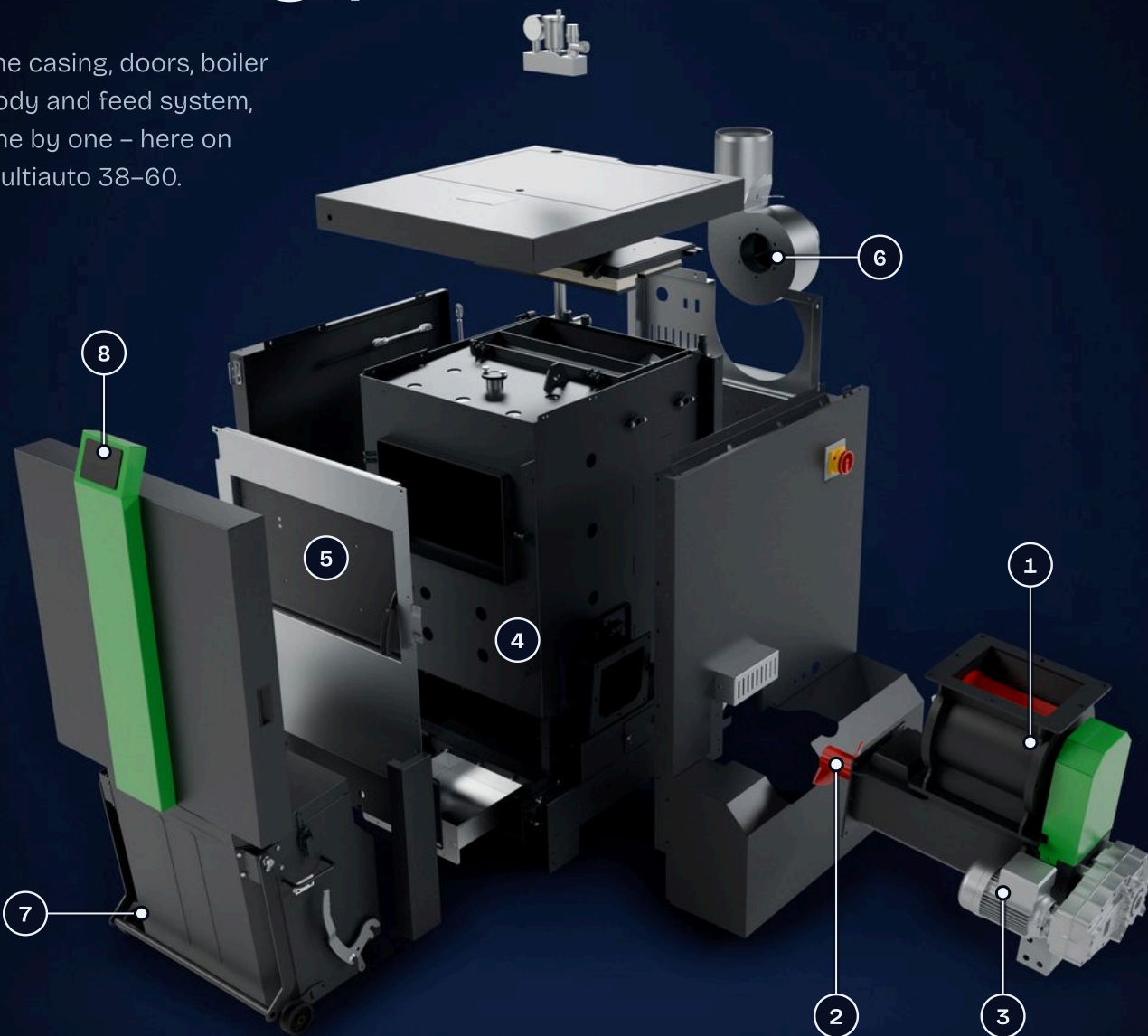
How the heat is harnessed.



EXPLODED VIEW, FRONT

Part by part.

The casing, doors, boiler body and feed system, one by one – here on Multiauto 38–60.



① Rotary valve

Safe against burn-back, cuts over-long pieces. Two sizes by output – driven by two chains.

② Stoker screw

Feeds the fuel into the burner. Available in two versions, 100 and 150 mm.

③ Motor and gearbox

Drives the feed system. The gearbox is maintenance-free.

④ Boiler body

Firebox and convection section, surrounded by the boiler water.

⑤ Firebox door

Behind the front panel. All doors have a stainless steel shield and ceramics against radiant heat.

⑥ Flue gas fan

Automatically adjustable, for the right flue gas flow.

⑦ Ash box

Automatic ash discharge. Large box, 70 litres.

⑧ Touchscreen

Touch display with smart functions, easy to use.

— STEPPED GRATE

At heart, industrial.

The heart of Multiauto is the stepped grate in the burner. The technology provides evenly distributed combustion and continuous cleaning, so the boiler does not need to stop for cleaning and operation is smoother. The stepped grate is really an industrial technology. It allows the boiler to burn more types of fuel, including wetter and dirtier ones, giving you as a customer greater freedom of choice and peace of mind should a fuel become hard to obtain.



OPERATION

The boiler never has to stop for cleaning.

Tipping grate: stops to tip out the ash.

COMBUSTION

Steady, even with wetter fuels and chips with bark.

Tipping grate: output drops as bark, hard-to-burn material or impurities build up.

CLEANING

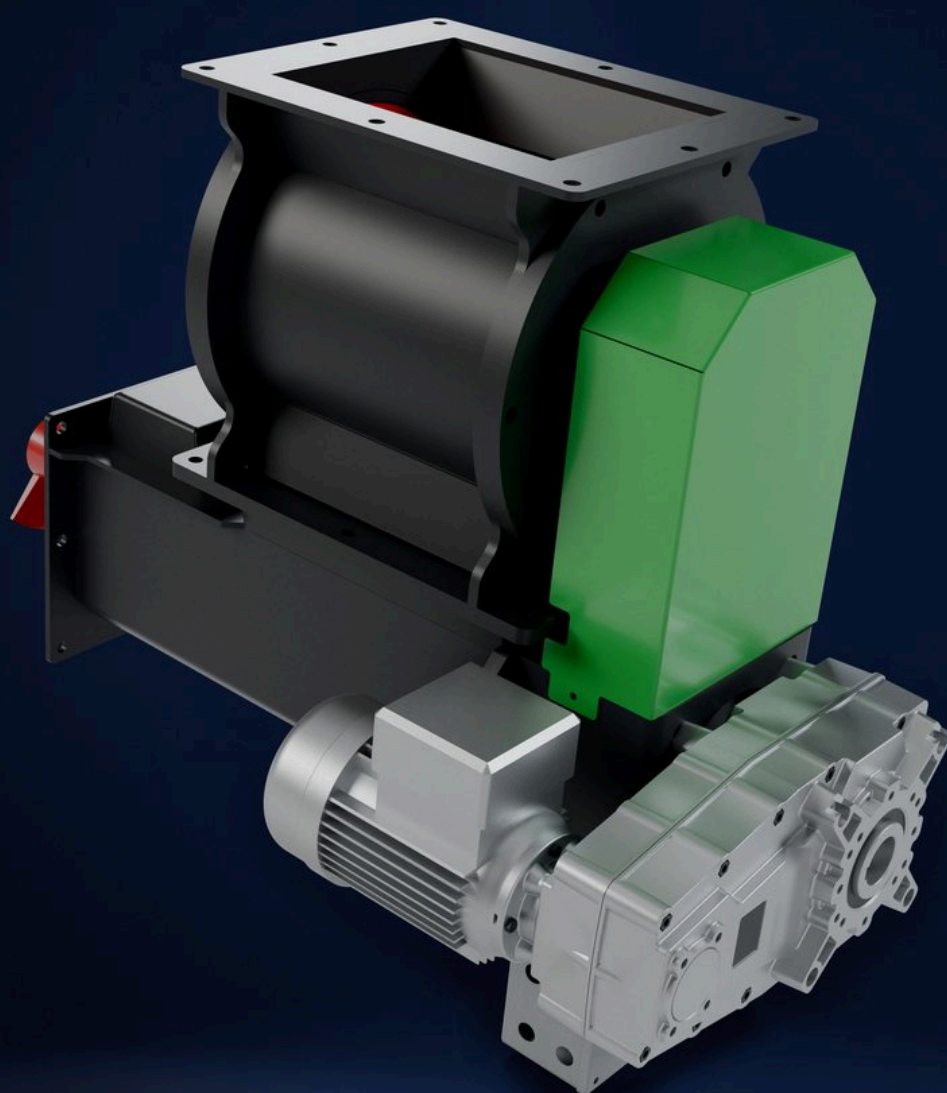
Automatic and continuous, in two phases.

Tipping grate: frequent cleaning, with starts and stops and a risk of sintering.

All Multiauto boilers have a moving stepped grate instead of a fixed tipping grate – which is why you can burn the fuel that is cheapest right now and readily available.

— FEED SYSTEM

The fire stays in the boiler.



Fully sealed rotary valve,
safe against burn-back.
The stoker screw feeds
fuel into the burner.

—
CHIP SIZE

G50+

—
CUTTING

**Cuts
long pieces**

Cuts light material longer than
16 cm.

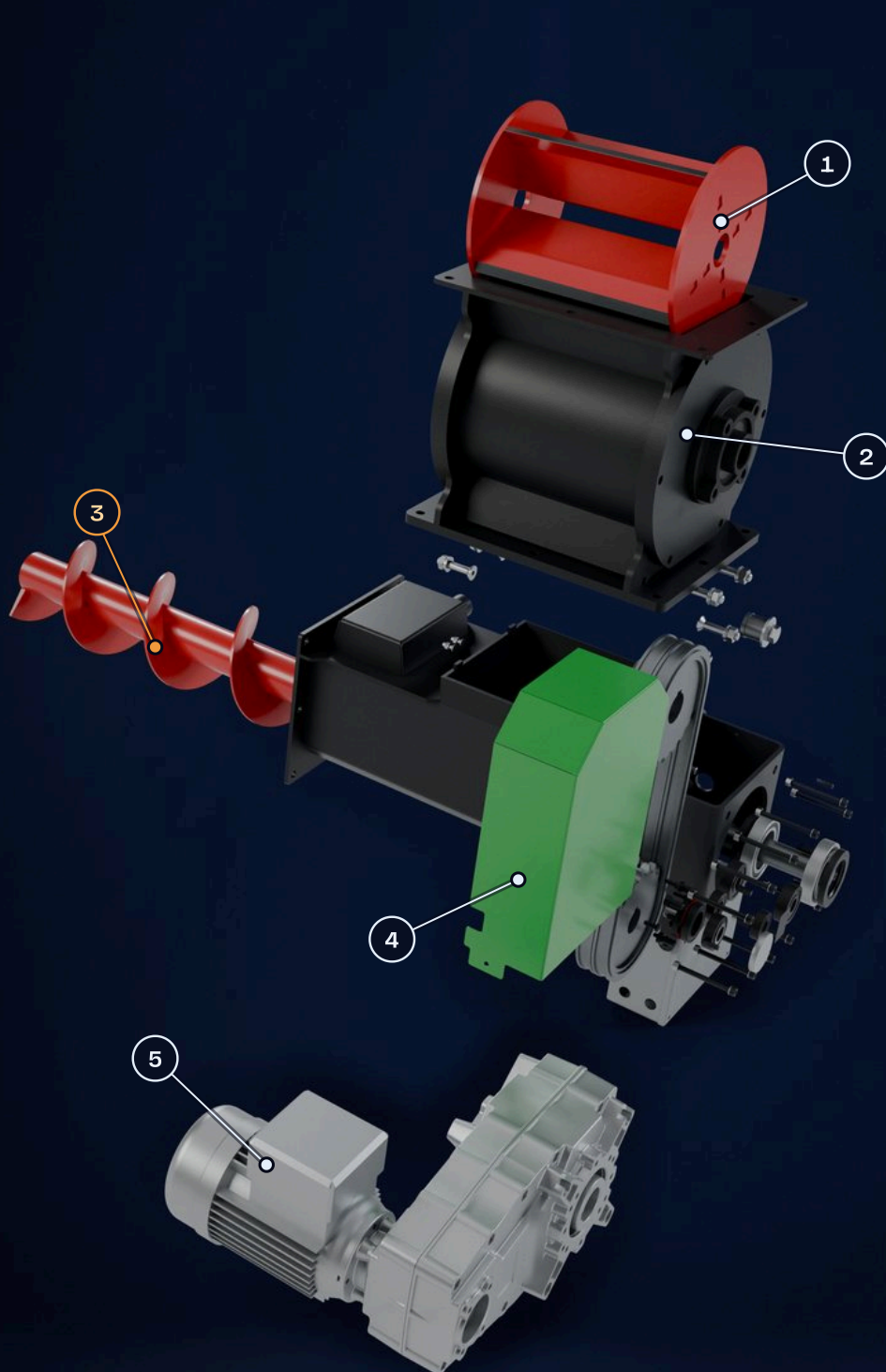
—
ROTARY VALVE

2_{sizes}

Depending on the boiler.

EXPLODED VIEW

Part by part.



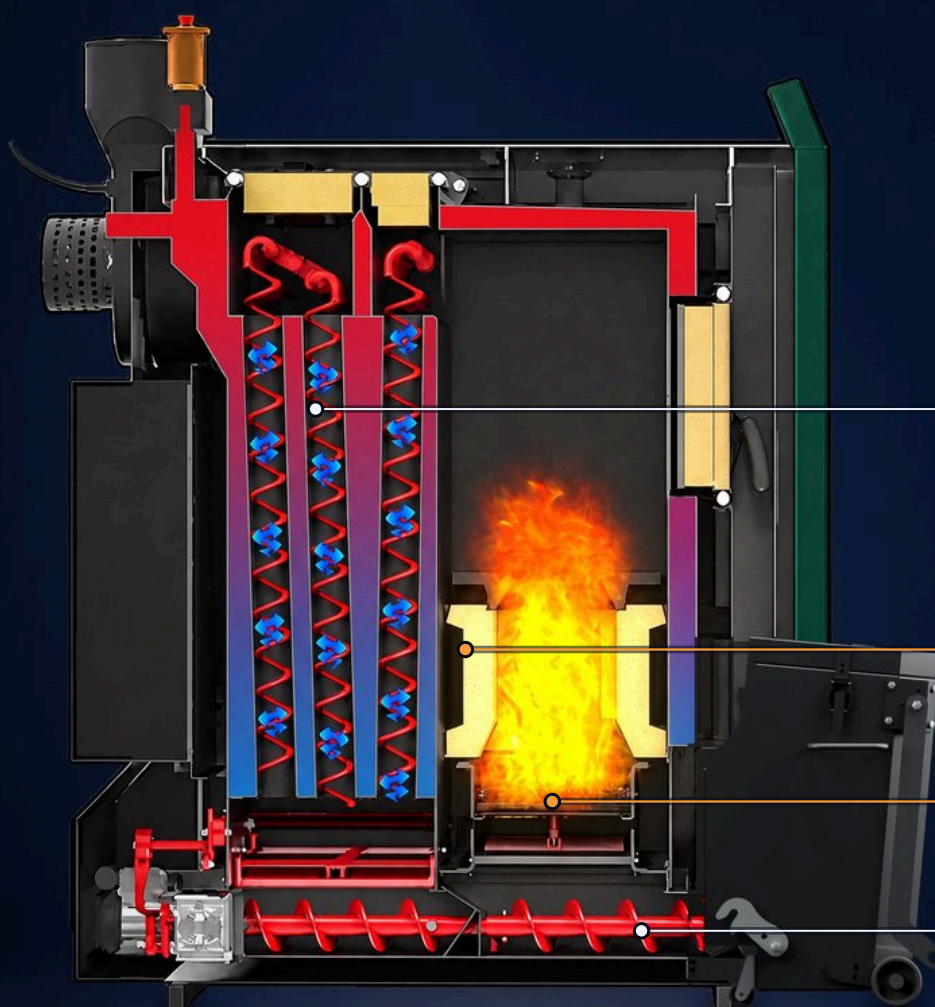
- 1 Rotor**
Sits in the rotary valve housing, below the inlet.
- 2 Rotary valve**
Fully sealed and safe against burn-back.
- 3 Stoker screw**
Feeds the fuel to the burner. Generously sized, with thick flights for a long service life. The screw comes in 100 and 150 mm – with a casing of 140 and 190 mm respectively.
- 4 Cover**
Protects the drive.
- 5 Motor and gearbox**
The motor is completely maintenance-free and directly coupled to the stoker screw. Via twin heavy-duty chains it also drives the rotary valve – so the rotary valve and stoker screw always work in sync.

EXPLODED VIEW · MULTIAUTO 38-60 · CAD

DESIGN

Few moving parts, with a minimum of sensors.

Cleaning, ignition and
ash discharge are all
automatic.



- 1 Convection section**
Turbulators clean the flue tubes as they move up and down.
- 2 Firebox**
Refractory material with silicon carbide.
- 3 Stepped grate**
The fuel burns out here.
- 4 Ash screw**
The ash is conveyed to a removable ash box.

SIDE CROSS-SECTION · PELLETECH

FIREBOX WITHSTANDS

approx. **1,500**°C

ASH BOX

26–70 litres

Small, 26–38 litres depending on boiler size, or large, 70 litres.

MODULES

2

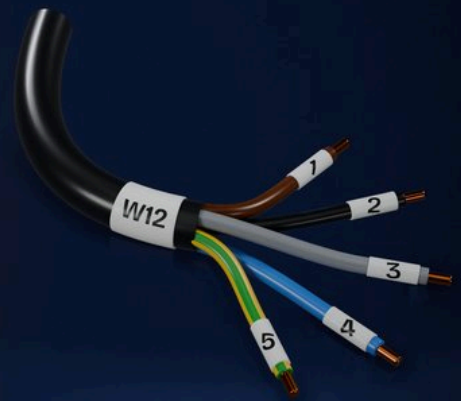
Burner module and heat exchanger module.

— THE REST OF THE BOILER

More features.

From ignition
to the full lifespan.

94%



- ① **Efficiency**
Up to 94 %.

- ② **Firebox**
Refractory material with silicon carbide. Withstands 1,500 °C.

- ③ **Labelled cables**
Every electrical cable, and every wire within it, has its own marking.



LCC

- ④ **Hot-air igniter**
All ignition uses an industrial-grade hot-air igniter.

- ⑤ **Lambda sensor**
Measures the flue gases and adjusts combustion.

- ⑥ **Life-cycle cost**
Multiauto has the lowest LCC on the market – the cost over the boiler's entire lifetime.

— ASH BOX

Plenty of room for the ash.

The ash box sits below the burner, at the front of the boiler. The ash screw carries the ash there automatically, and the box is removable and easy to empty.



The ash box sits here

70 litres

LARGE ASH BOX

The large ash box.

26–38 litres

SMALL ASH BOX

Depending on boiler size.

Removable

EASY TO EMPTY



ASH SCREW

All the way to the ash box.

A shared ash screw carries the ash from both the burner and the convection section to the ash box. The shear pin sits on the outside, so it is easy to replace. The ash box is removable and easy to empty.

ASH DISCHARGE

Automatic

ASH BOX

26–38 or 70 litres

SHEAR PIN

On the outside, easy to replace

CONTROL AND CONNECTIVITY

From the boiler room to your phone.

The touchscreen is fitted as standard. With the app or the web interface, you can monitor and control the boiler remotely and receive fault messages instantly.



4

BOILERS IN CASCADE, UP TO
800 kW

The lambda sensor adjusts combustion automatically. An outdoor sensor and a climate panel for weather compensation are available as accessories, for systems without an accumulator tank.

— PEACE OF MIND, AROUND THE CLOCK

Secure all winter.

Safety is built in, from the fuel that is fed in to the ash that is discharged. Operation is monitored continuously, and should anything happen, you will know straight away.



ROTARY VALVE

Fully sealed, safe
against burn-back

LAMBDA SENSOR

Self-adjusting
combustion

ASH CONTAINER

Overfill protection
and alarm

BIO THERM

Alarms and remote
monitoring



IN OPERATION

From the farm to smaller industry.

Multiauto is the right fit where you want to burn the fuel that is cheapest and easiest to obtain. If more output is needed, up to four boilers can be connected in cascade.

PROPERTIES

Homes, schools and premises with their own boiler room.

FARMS

Ideally with wood chips from your own forest.

SMALLER INDUSTRIES

Several boilers in cascade for greater demand.

— SECURE SUPPLY

Fuel close at hand.

Wood chips, pellets and firewood – but also sawdust, wood shavings, logging residues, peat and other residues.

That means more freedom of choice, and peace of mind if a fuel becomes hard to get.



FUELS

Wood chips, pellets, firewood, logging residues and more.

approx. **0.30** SEK/kWh

FUEL COST

Approximate, based on the fuel.

0.15–0.2 SEK/kWh

WITH YOUR OWN FOREST

FUEL STORE SOLUTIONS

A store built for the site.

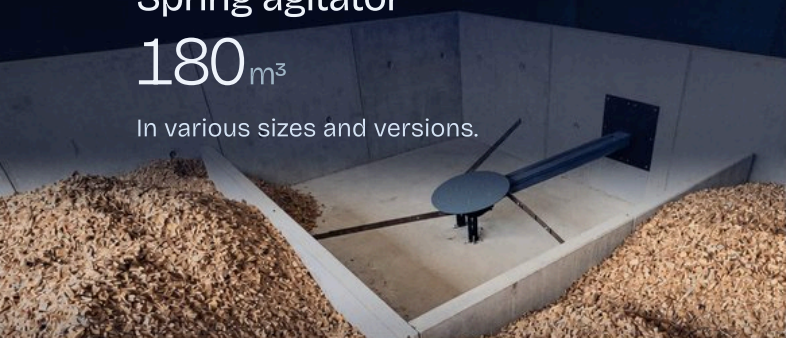
The fuel store is built and delivered to suit your conditions and wishes – the look of the site and the space available, the quality of the fuel, how you want to fill it and how much the store needs to hold. Multiauto's standard solution is a spring agitator with a screw running directly from the store to the boiler.

01 UP TO

Spring agitator

180 m³

In various sizes and versions.



02 UP TO

Scraper-floor store

500 m³

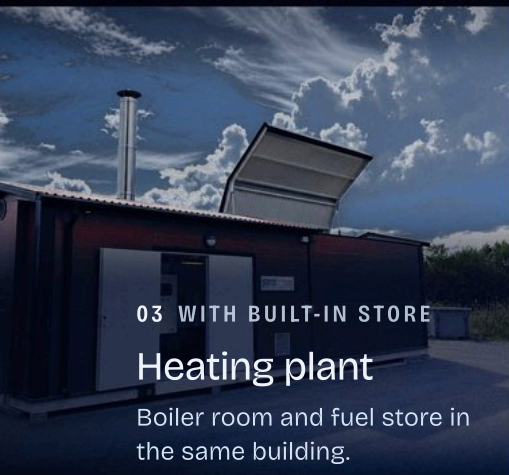
Hydraulic scrapers push the chips forward.



03 WITH BUILT-IN STORE

Heating plant

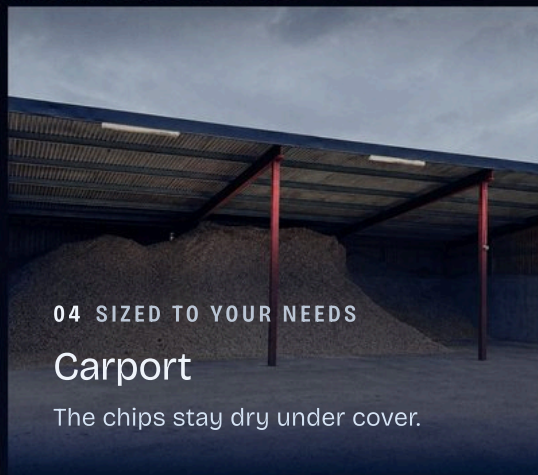
Boiler room and fuel store in the same building.



04 SIZED TO YOUR NEEDS

Carport

The chips stay dry under cover.



05 GALVANISED STEEL

Silo

11–185 m³



06 COMPLEMENT WITH

Mobile shredder

All fuel store solutions can also be complemented with our mobile shredder, which turns your residues into a potent fuel. A smart logistics solution for the farm, where all material is put to use.



WOOD CHIPS AND PELLETS

Same boiler, two ways to feed.

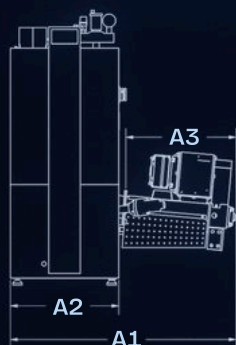
Wood-chip version

Fed from a separate store.



Pellet version

With integrated store.

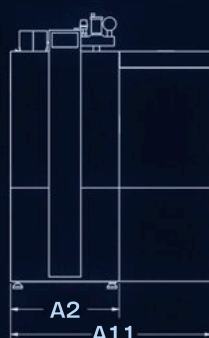


TOTAL WIDTH A1

1,208–1,481 mm

CHIP SIZE

G50+



WIDTH A11

1,075–1,320 mm

STORE CAPACITY

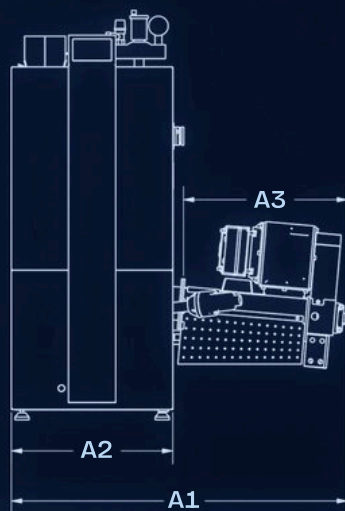
87–152 kg

Wood-chip version: Multiauto with rotary valve. Pellet version: Multiauto 38–60. Drawings and dimensions: PelleTech.

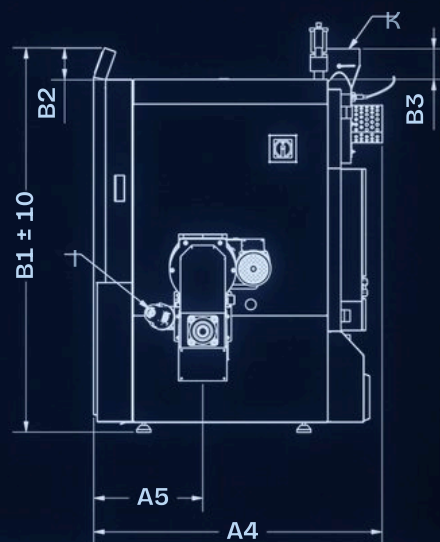
MODELS AND DIMENSIONS

Seven versions.

9-22, 18-35, 38-60, 65-100, 135, 150 and 200 kW.



FRONT VIEW



SIDE VIEW

OUTPUT IN kW	9-22	18-35	38-60	65-100	135	150	200
A1 Total width mm	1,208	1,297	1,387	1,387	1,481	Data on request	
A2 Boiler width mm	580	670	760	760	760		
A3 Feeder width mm	590	590	590	590	680		
A4 Depth mm	1,036	1,066	1,212	1,384	1,740		
B1 Height mm	1,381	1,420	1,420	1,440	1,576		
A10 Flue pipe, Ø mm	150	150	180	180	250		
Boiler weight kg	550	670	720	830	1,180	1,850	1,850

Dimensions apply to the wood-chip version with rotary valve, ± 10 mm on height dimensions.

— WOOD CHIPS AND PELLETS, BY VERSION

Technical data.

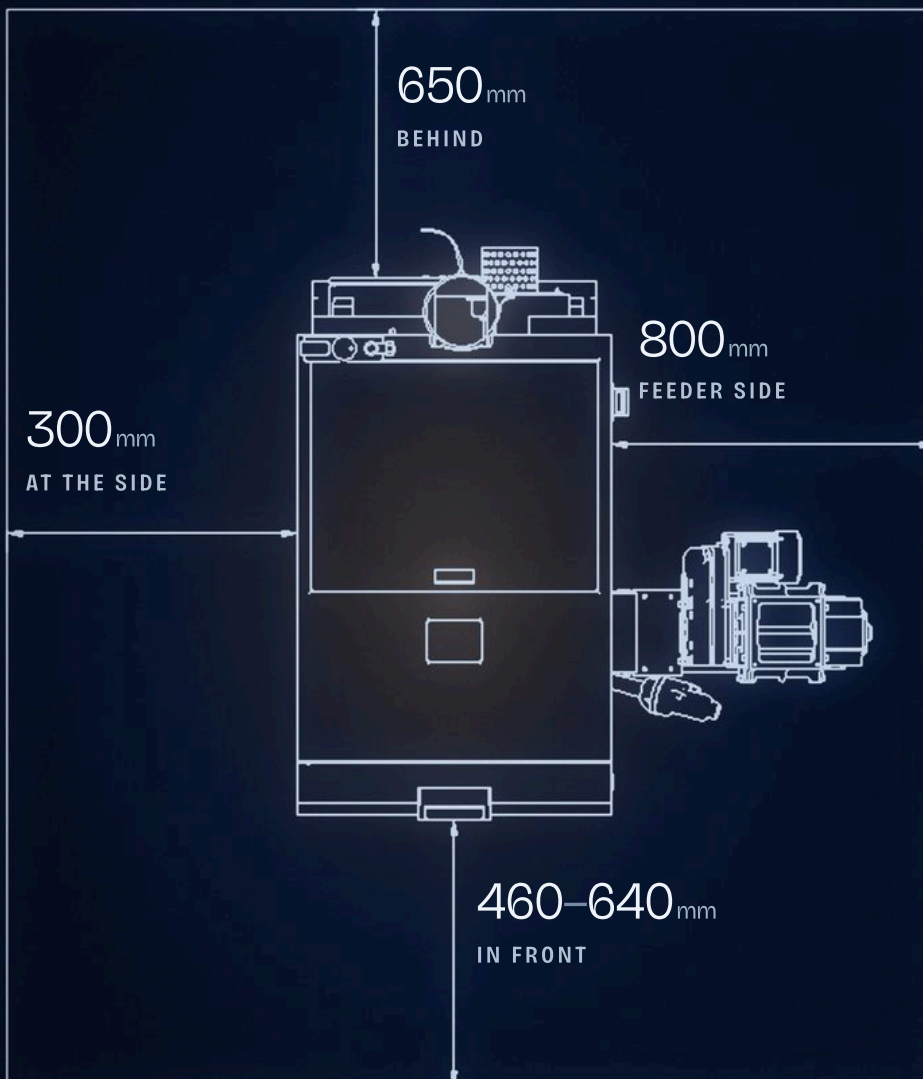
From 9–22 to 135 kW. Other data for 150 and 200 kW is available on request.



OUTPUT IN kW	9–22	18–35	38–60	65–100	135	150–200
Boiler water volume litres	70	100	145	186	270	
Op. pressure min/max bar	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	
Max. operating temp. °C	95	95	95	95	95	
Flow and return	1" DN 25	1¼" DN 32	1¼" DN 32	1½" DN 40	2" DN 50	
Filling and draining	1" DN 25	1" DN 25	1" DN 25	1" DN 25	1" DN 25	
Min. flow at Δt 15 K kg/h	1,400	2,000	3,200	5,600	7,500	
Resistance at Δt 20 K mbar	6.5	18.1	47.2	29.4	–	Data on request
Accumulator tank, min. litres	500	700	1,200	2,000	2,000	
Heat exchanger area m ²	1.12–1.53	1.48–2.04	3.11–3.78	4.15–4.88	5.74–6.82	
Flue tubes pcs	8	10	21	28	35	
Grate combustion area m ²	0.068	0.086	0.124	0.166	0.166	
Ash box, small / large litres	26.2 / 70	32 / 70	38 / 70	38 / 70	38 / 70	
Pellet store, capacity kg	87	97	101	128	152	
Boiler weight kg	550	670	720	830	1,180	1,850

Data according to PelleTech's technical specification, subject to change. Final data for your plant is provided at the design stage.

Planned from the first drawing.



590–650_{mm}
CLEARANCE ABOVE, B8

400_{mm}
AT THE STORE, PELLETS

Ø 150–250_{mm}
FLUE PIPE

500–2,000_{litres}
ACCUMULATOR TANK, MIN.

550–1,850_{kg}
BOILER WEIGHT

MINIMUM CLEARANCES FOR 9–22 TO 135 KW · WOOD-CHIP VERSION FROM ABOVE · DRAWING BY PELLETECH

Biotherm designs the boiler room in 3D (IRONCAD) and handles installation, commissioning and fine-tuning.

— SUSTAINABLE HEATING SINCE 1976

One contact. All the way.

A family business in its fourth generation, with offices in Västerås and Luleå. We calculate your heating – and stay on hand once it is running.



● **Needs analysis**

With a free heat-load calculation.

● **Engineering**

3D drawings.

● **Manufacturing**

Besides PelleTech's solutions, we build a range of fuel stores in-house.

● **Installation**

Commissioning and fine-tuning.

● **Training**

Operation and maintenance.

● **Service**

Alarms and remote monitoring.

FREE HEAT-LOAD CALCULATION

Let's calculate your heating.

We start with a needs analysis and a free heat-load calculation. Then we take responsibility for the entire plant, from fuel store to finished heating.

PHONE

+46 (0)921-578 00

EMAIL

info@biothermheat.com

HEAD OFFICE

Utvreta 13
725 92 Västerås

LOCAL OFFICE

Luleå



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