

— PELLETECH

AERO

Fully automatic hot air for industrial premises, greenhouses and drying, fired with pellets or wood chips.

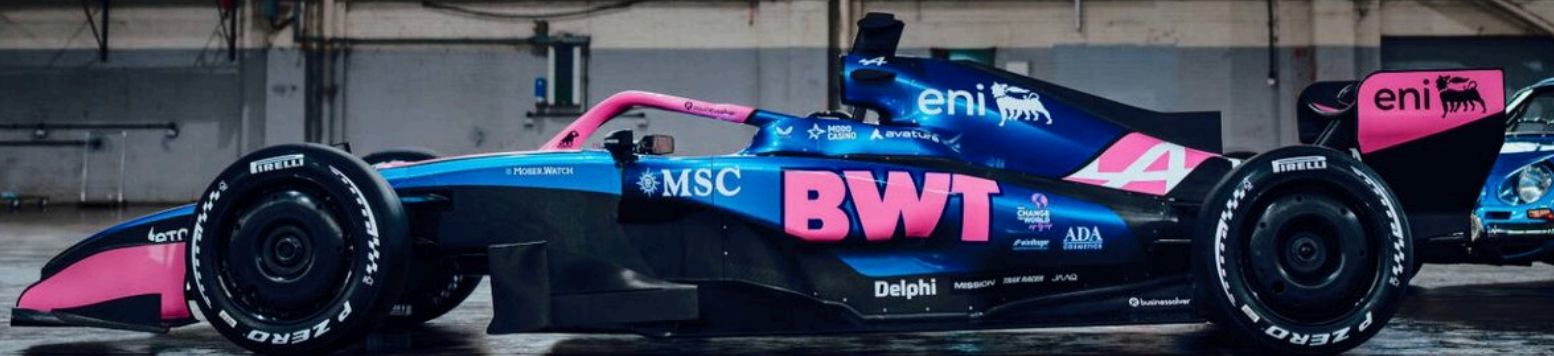


60 kW – 8 MW+

OUTPUT RANGE

6 models

IN TWO SERIES



BWT ALPINE

NEW OWNERSHIP

PelleTech is now part of BWT.

PelleTech, maker of Multiauto, IDRO, AERO and BU, has been acquired by BWT, Best Water Technology. Biotherm Heat AB is PelleTech's general agent in Scandinavia.

1990

BWT founded

6,500+

employees

120+

countries

13

factories

PelleTech®

PART OF

BWT
BEST WATER TECHNOLOGY

— PELLETECH AERO

Warm inside. All winter long.

AERO heats the air and blows it out where the heat is needed – in the industrial building, the greenhouse or the dryer.



OUTPUT

60 kW–8 MW
and above

FUEL

Pellets and
wood chips

OPERATION

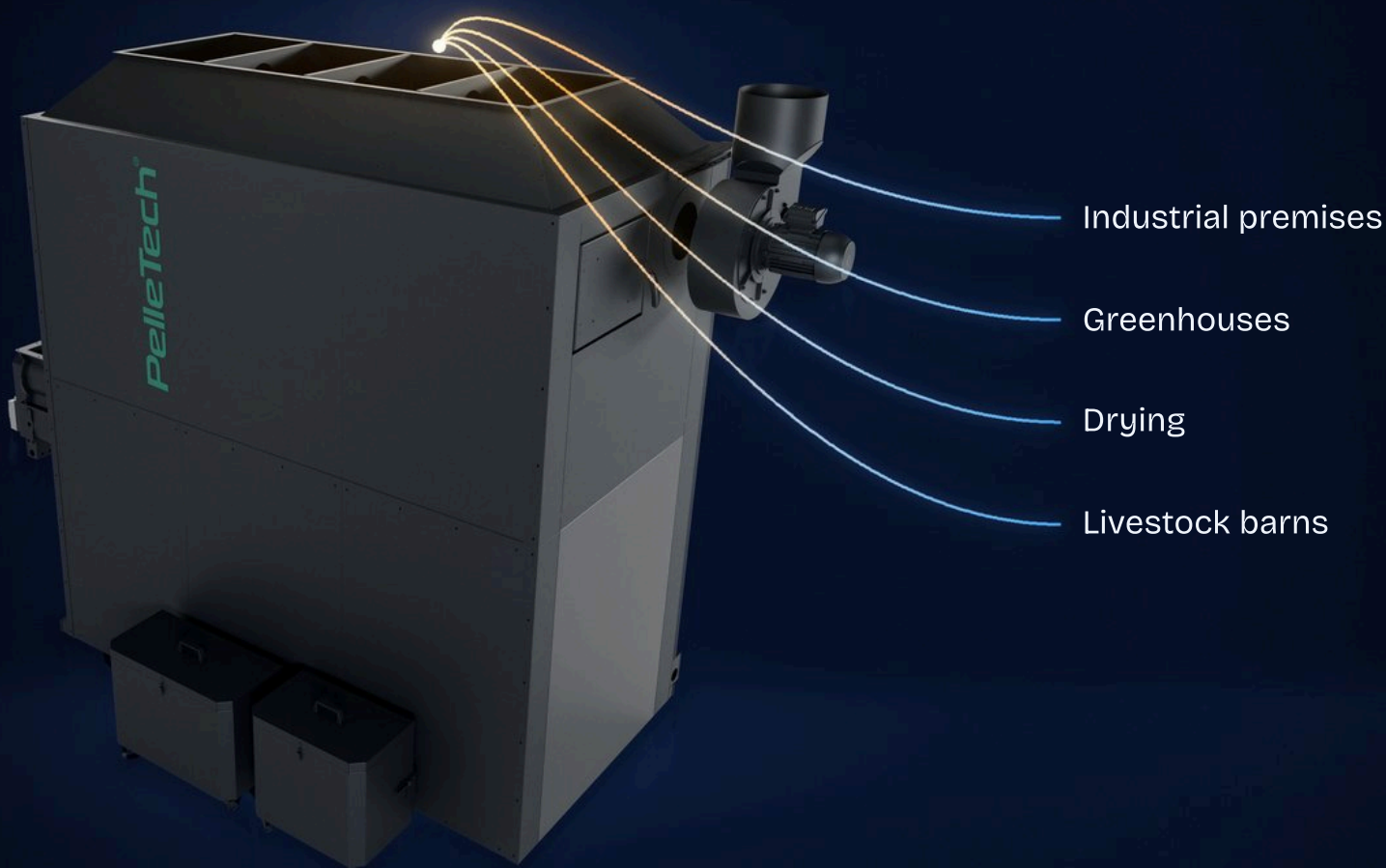
Fully automatic, from
fuel store to ash

THE AIR

Warm, free
of flue gases

60_{kW} – 8_{MW+}

Output range. Six models from 60 to 500 kW; larger plants are custom-engineered.



— PELLETECH AERO

Warm air,
where it's needed.

A fully automatic hot-air unit for pellets and wood chips. The flue gases heat the air in a heat exchanger, and the fans blow it out – directly into the building or through ducts.

MANUFACTURER

PelleTech, part of BWT →

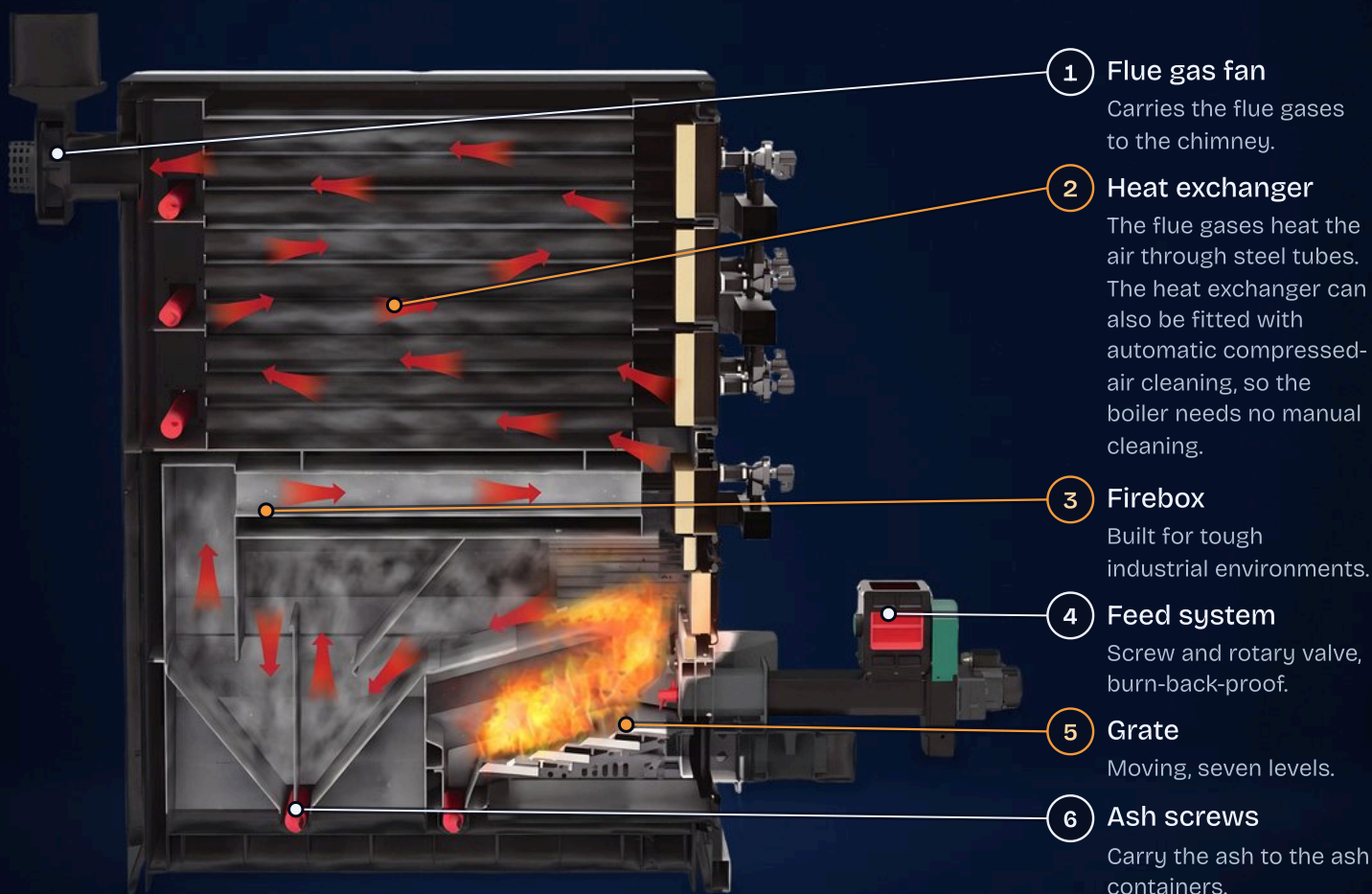
GENERAL AGENT IN SCANDINAVIA

Biotherm Heat AB →

— HOW AERO WORKS

From flame to warm air.

The red arrows show the path of the flue gases. The fans blow the air around the heat exchanger tubes – the air and the flue gases never mix.



CUTAWAY OF AERO 150-500 · IMAGE PELLETECH

— THE REST OF THE UNIT

More features.

From ignition
to ash.



① Compressed-air cleaning, optional

Short blasts of compressed air keep the heat exchanger tubes clean – the boiler needs no manual cleaning.

② Lambda sensor

Measures the flue gases and adjusts fuel and air as the fuel quality varies.

③ Hot-air outlets

Four outlets on the AERO 350 and 500. Adjustable in size and direction.



④ Hot-air igniter

Ignites the fuel automatically with hot air, 1,600 W.

⑤ Ash screws

Carry the ash from the firebox to the ash containers or to a central system.

⑥ Ash container

On wheels, with lid and handle.

The grate is never still.

At the heart of AERO is a moving stepped grate of cast iron, with seven levels. The grate moves constantly, carrying the fuel forward so that it dries, ignites and burns out. By controlling the grate speed, the fuel feed and the air, AERO can burn fuels with varying moisture content.



THE FUEL

Dries, ignites and burns out on its way down the grate.

THE AIR

Primary air below the grate, secondary air in several streams.

THE ASH

Drops off at the lower end of the grate and is removed by screw.

The cast iron above the grate radiates heat back, so that even wetter fuels dry and ignite.



— THE AIR

Cold air in, warm air out.

HEAT EXCHANGER

Steel tubes, accessed through a hatch

INTO THE BUILDING

Directly or through ducts

Two centrifugal fans blow the air through the heat exchanger, where the flue gases heat it via steel tubes. The air and the flue gases never mix – the building gets heat without flue gases or moisture.

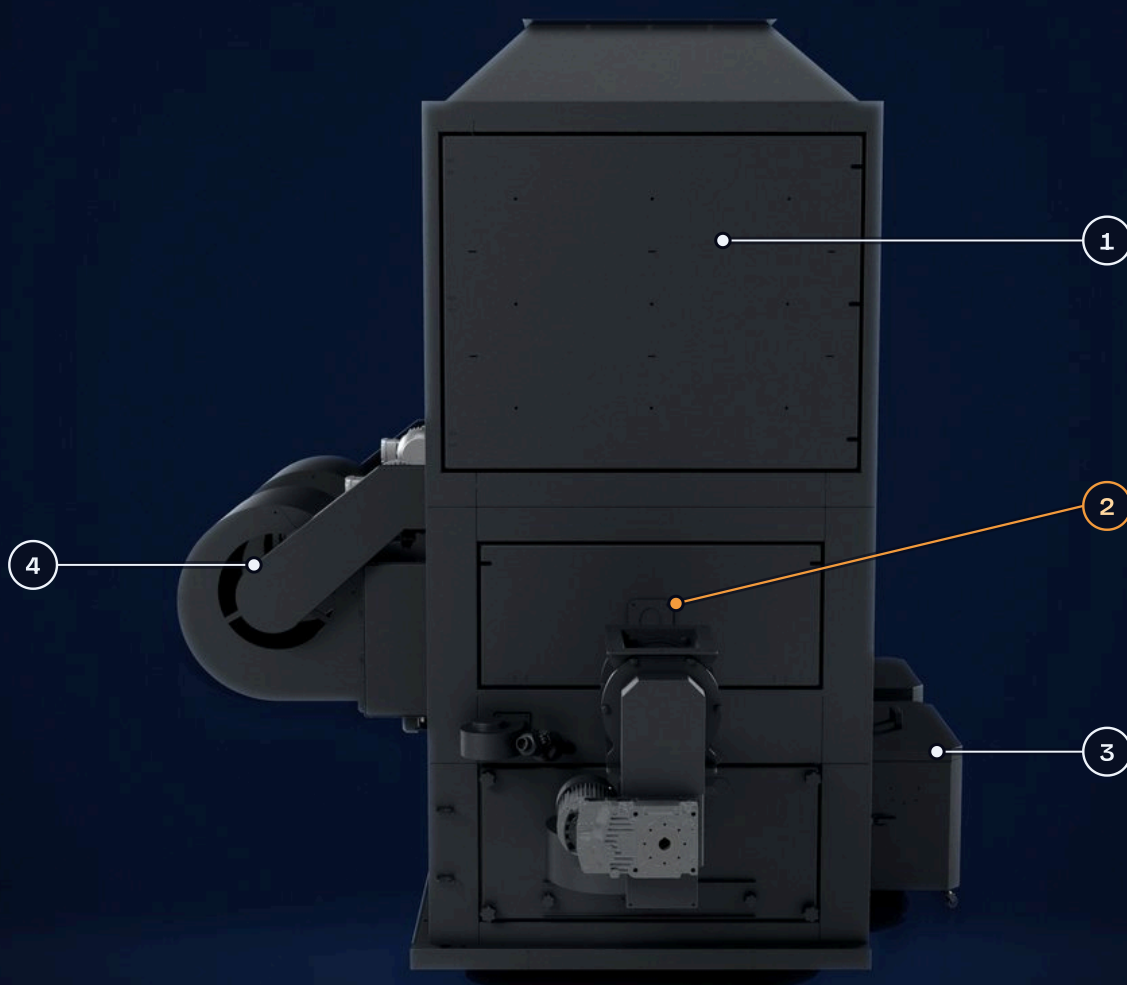
FLUE GASES, 150–500

Approx. 150–160 °C to the chimney

CLEANING AND ASH

Ash out, tubes clean.

The grate constantly moves the combustion residues forward. Ash screws carry the ash to the ash containers – or to a central collection system.



SHORT SIDE · AERO 500 · CAD

① Hatches

For inspecting the heat exchanger and the chamber. Optional compressed-air cleaning.

② Feed system

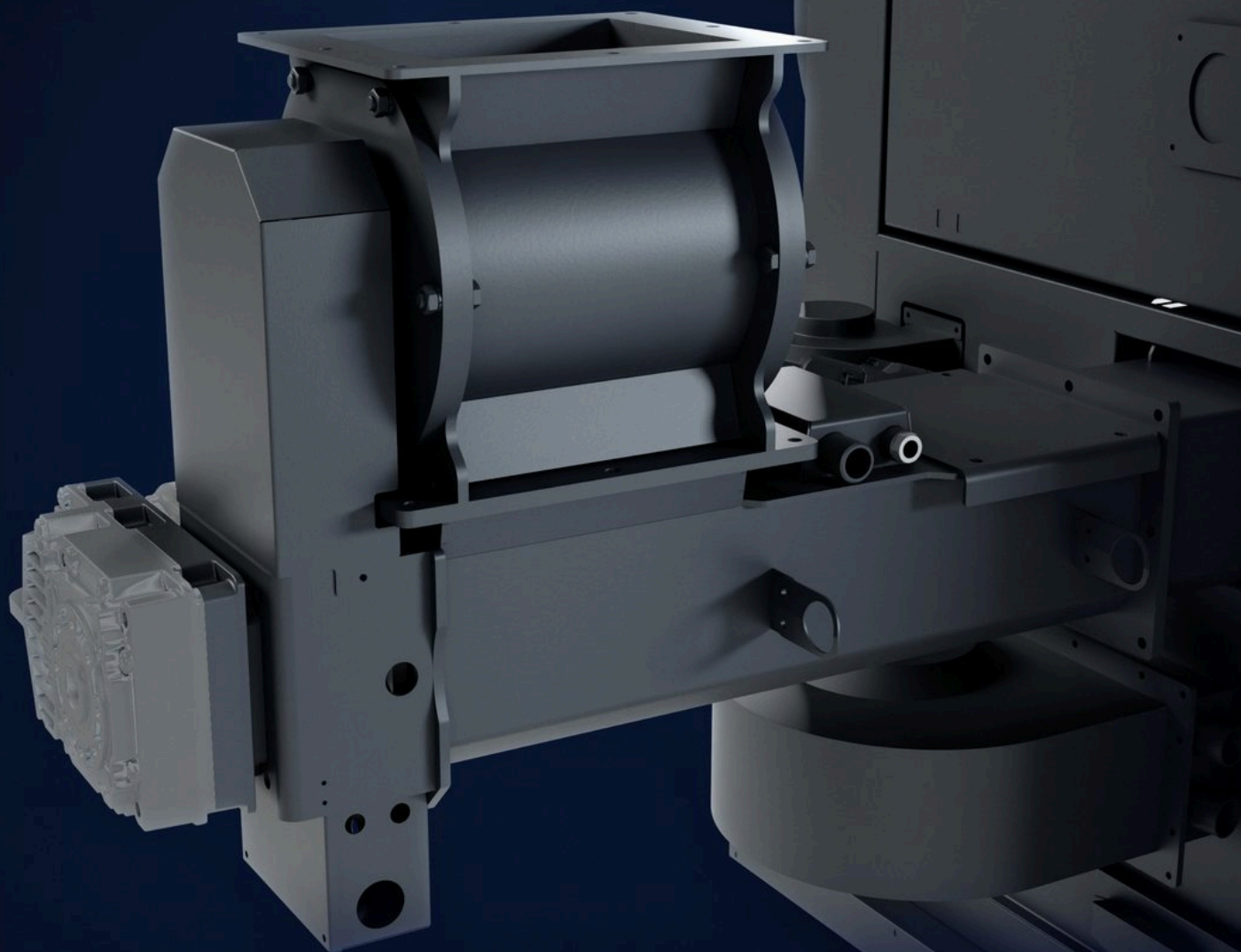
Rotary valve and screw, into the burner.

③ Ash containers

The ash screws carry the ash there automatically.

④ Fans

Two centrifugal fans at the back of the unit.



FEED SYSTEM · AERO 500 · CAD

— ROTARY VALVE AND SCREW

The fire stays in the burner.

The rotary valve sits between the fuel store and the burner, sealing the feed system against burn-back. The screw that feeds in the fuel is either for pellets or reinforced for wood chips.

BURN-BACK PROTECTION

Rotary valve in the feed

CHIP SIZE

G50+

FEED SYSTEM

Adapted to the fuel store

CONTROL AND CONNECTIVITY

From the unit to your phone.

The control system manages temperature, fuel feed and ignition. With the app or the web interface, you can monitor and control AERO remotely.



Internet control

ALL OUR BOILERS CAN BE CONNECTED TO THE INTERNET

The lambda sensor measures the flue gases, and combustion adjusts automatically as the fuel quality varies. With the app – an optional extra – you can follow your plants in real time.

— BUILT-IN SAFETY

Safe, night after night.

Safety is built in, from the feed system to the flue gases. Operation is monitored around the clock – and should anything happen, you will know at once.

BURN-BACK PROTECTION

The rotary valve keeps the feed sealed

SENSORS

Pressure and temperature

OVERHEATING

Temperature is limited

BIO THERM

Alarms and remote monitoring

— FUEL

Pellets or wood chips.

Burn whatever is cheapest and easiest to get hold of. The compact AERO 60 and 110 burn pellets; the AERO 150–500 burn both pellets and wood chips.



G50+

CHIP SIZE

AERO 150–500, with reinforced screw.

approx. **3.9** m³ chips

EQUALS 1 M³ OF PELLETS

Roughly the same heat.

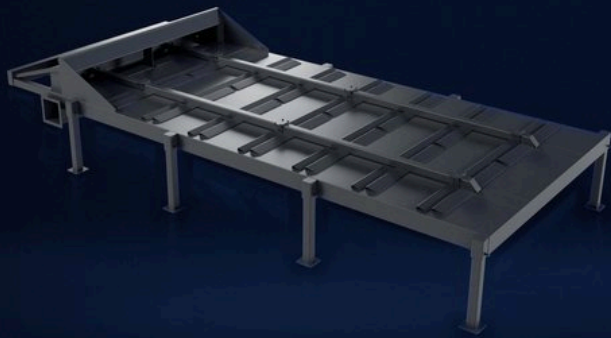
203 kg

PELLETS IN LOWER STORE

AERO 60 and 110, built-in store.

FUEL STORAGE AND FEED

A store built for the site.



01 UP TO

Scraper-floor store

500 m³

Hydraulic scrapers move the fuel forward.



03 UP TO

Spring agitator

180 m³

05 COMBINE WITH

Mobile shredder

All storage solutions can also be combined with our mobile shredder, which turns your residues into a potent fuel. A smart logistics solution on the farm, where all material is taken care of.

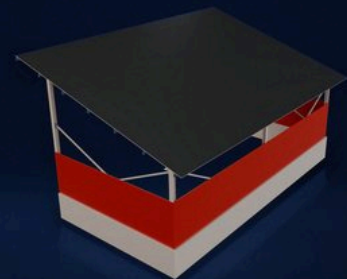
The fuel store is built around your conditions and wishes – the site, the fuel and how you want to fill it. The storage options for AERO are decided together with you, based on your conditions on site.



02 GALVANISED STEEL

Silo

11–185 m³



04 SIZED TO NEED

Carport

The wood chips stay dry under cover.





— GREENHOUSES

Heat for all that grows.

More and more growers are replacing oil, LPG and electricity with biofuel – sometimes using locally sourced fuel. AERO heats the greenhouse with warm air, free of flue gases.

REPLACES

Oil, LPG or electricity.

FUEL

Pellets or wood chips, ideally local.

LOCATION

In the greenhouse, or outside with ducts leading in.



INDUSTRIAL PREMISES AND BARNs

PELLETech AERO OUTDOORS · PHOTO PELLETech

Sits outside. Heats inside.

AERO can stand inside the building or outside it. The warm air is then ducted in – to industrial premises and barns. In barns, the bedding and the air stay drier.

REFERENCE · PELLETech

Four chicken houses in South Africa

The units stand outdoors, are fired with wood chips and blow the warm air through pipes along the houses.

2

PelleTech AERO
350

4

chicken houses

4,000 m²

heated area

— DRYING

Dry chips, dry grain.

AERO gives the dryer an even, continuous flow of warm air – for wood chips, grain and other crops and seeds.



DRYING

Continuous,
with even heat

MATERIAL

Wood chips, grain,
crops and seeds

FUEL

Pellets or wood chips

OUTPUT

60 kW–8 MW
and above

HEATING PLANT

A heating plant in a container.

A ready-built heating plant saves time. It is built in a standard container or custom-built, and delivered with labelled components and documentation.



HEATING PLANT WITH AERO, OPEN LONG SIDE · CAD

1 The unit
PelleTech AERO, installed in the container.

2 Feed system
Rotary valve and screw into the burner.

3 Electrical cabinet
Controls and power, wired and labelled.

4 Ash containers
Easy to reach and empty.

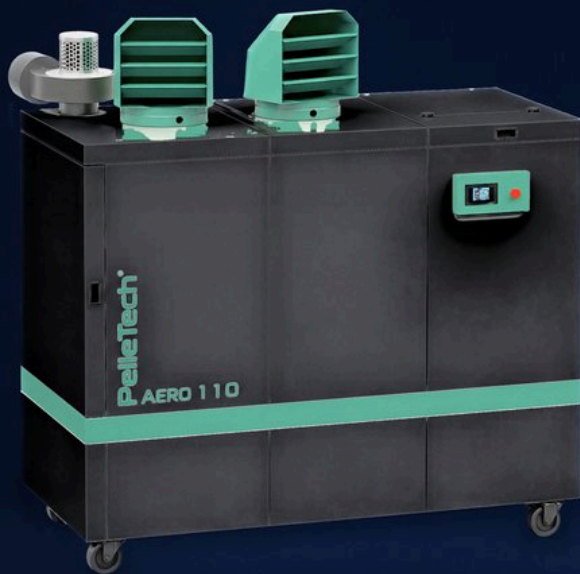
Biotherm builds heating plants from 200 kW to 2 MW – on-site installation is carried out by Biotherm or local contractors.

VERSIONS

Two series, six models.

AERO 60 and 110

Compact, on wheels, with built-in pellet store.



AERO 150–500

Moving grate, separate fuel store, pellets and wood chips.

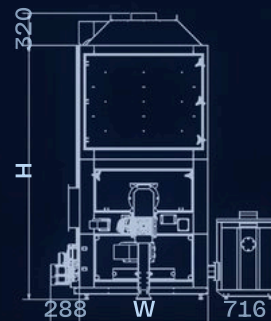


OVERALL WIDTH A

1,521–1,721 mm

OVERALL HEIGHT B

2,264–2,464 mm



HEIGHT H, 350–500

2,526 mm

WIDTH W, 350–500

1,176–1,276 mm

Above 500 kW, AERO is custom-engineered for each project, up to 8 MW and above. Drawings and dimensions: PelleTech (AERO 60 and 110 from the front, AERO 350 and 500 from the front), in mm.

— SIX MODELS, TWO SERIES

Technical data.

From 60 to 500 kW. Larger plants, up to 8 MW and above, are custom-engineered.

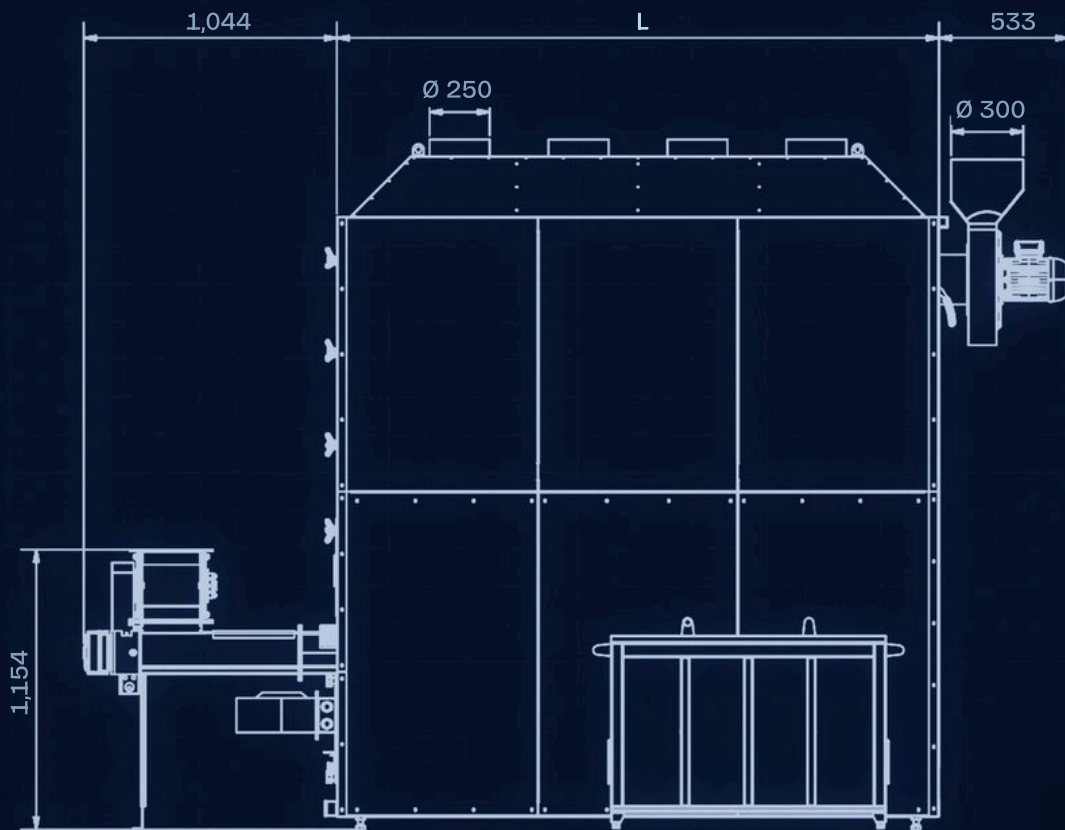
MODEL AERO	60	110	150	200	350	500
Fuel	Pellets		Pellets and wood chips up to G50+			
Fuel store	Built-in, 203 kg in lower store		Separate store, screw feed			
Grate	Moving, cast iron		Moving, cast iron, seven levels			
Hot-air fan	One centrifugal fan		Two centrifugal fans with frequency converters			
Hot-air outlet mm	315×323	336×352	500×110	500×190	4×Ø250	4×Ø250
Flue outlet, Ø mm	120	150	250	300	300	300
Flue gas temperature °C	–	–	150	150	160	160
Power supply	230 V 1-phase, 50–60 Hz		400 V, 50–60 Hz			
Power / rated current	0.63 kW	1.15 kW	25 A	25 A	25 A	27 A
Ignition	Automatic		Hot-air igniter, 1,600 W			
Weight kg	388	528	1,300	1,500	2,100	2,500

Data according to PelleTech's technical specification, subject to change. Final data for your plant is provided at the design stage. Airflow and fan pressure are sized to suit the duct system. A dash (–) means the figure is not given in the source data.

DIMENSIONS AND INSTALLATION

Planned from the first drawing.

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



AERO 350 AND 500 FROM THE SIDE · DRAWING PELLETECH

DIMENSIONS IN MM · AERO		60	110	150	200	350	500
L/A	Length, width A	1,521	1,721	1,470	1,670	2,100	2,483
W	Width	–	–	2,338	2,338	1,176	1,276
H/B	Height	2,264	2,464	2,368	2,368	2,526	2,526

AERO 60 and 110: overall width A and overall height B (see the drawing on page 19). Final dimensions for your plant are provided at the design stage.

— SUSTAINABILITY AND ECONOMY

Heat that grows back.

Bioenergy is renewable and counts as carbon-neutral: the carbon dioxide released is absorbed again by growing forest. With pellets or wood chips, you also gain greater control over your heating costs.

Renewable

BIOENERGY

Instead of oil, LPG or electricity.

approx. **0.30** SEK/kWh

FUEL COST

Based on purchased chips.

0.15–0.20 SEK/kWh

WITH YOUR OWN FOREST

— 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 we are still here once it is up and running.



Needs analysis

With a free heat-load calculation.

Engineering

3D drawings.

Manufacturing

Alongside PelleTech's solutions, we also manufacture a range of fuel stores.

Installation

Commissioning and fine-tuning.

Training

In 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 heat.

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READ MORE

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