

— COMPLETE DELIVERY

Heating plants

A ready-made boiler room, designed in 3D and delivered with insulated pipes, documentation and training.



200 kW–2 MW

OUTPUT RANGE

3D drawings

EVERY HEATING PLANT IS DRAWN IN 3D BEFORE
MANUFACTURE

— TURNKEY HEATING PLANT

The heat gets its own house.

The boiler and the technology, ideally the fuel store too, in a building of their own – designed for the site and handed over ready to run. Developed in an Arctic climate, built to last.



OUTPUT

200 kW–2 MW

BOILERS

PelleTech
IDRO or AERO

CONSTRUCTION

Standard container
or custom-built

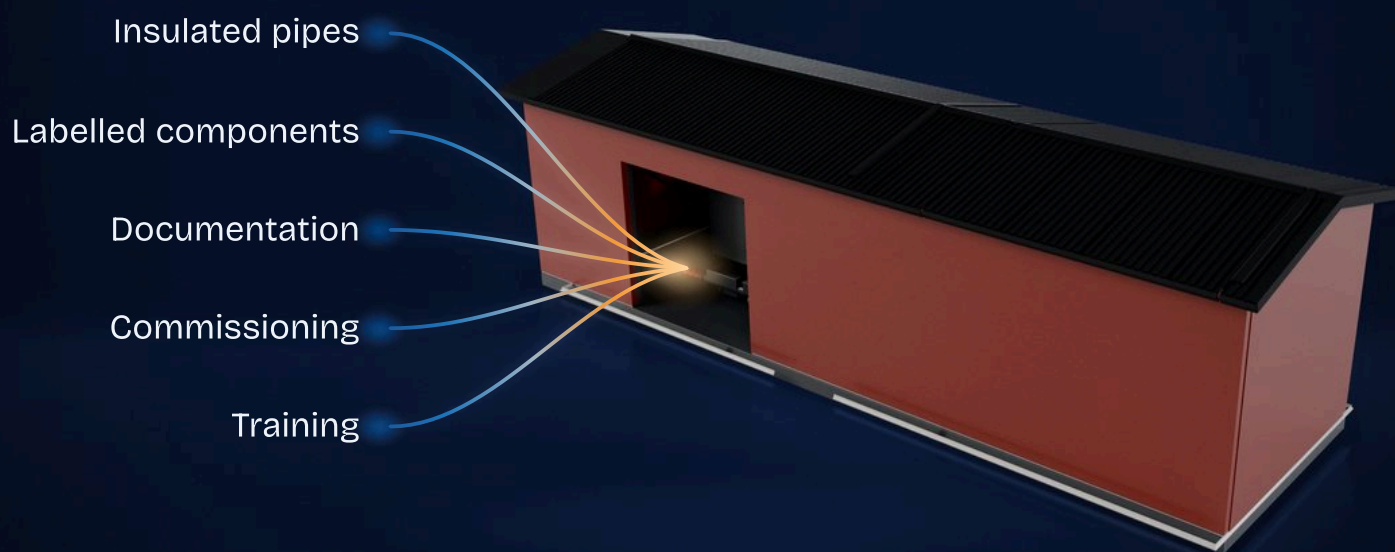
SITE INSTALLATION

Biotherm or
local contractors

200_{kW} – 2_{MW}

Output range. Every heating plant is calculated, drawn and engineered for the individual customer.

INCLUDED IN THE DELIVERY



— TURNKEY HEATING PLANT

Your boiler room
in one delivery.

We manufacture the heating plant in-house – in a standard container or custom-built, with a PelleTech IDRO or AERO as the boiler.

BOILERS

PelleTech IDRO or AERO →

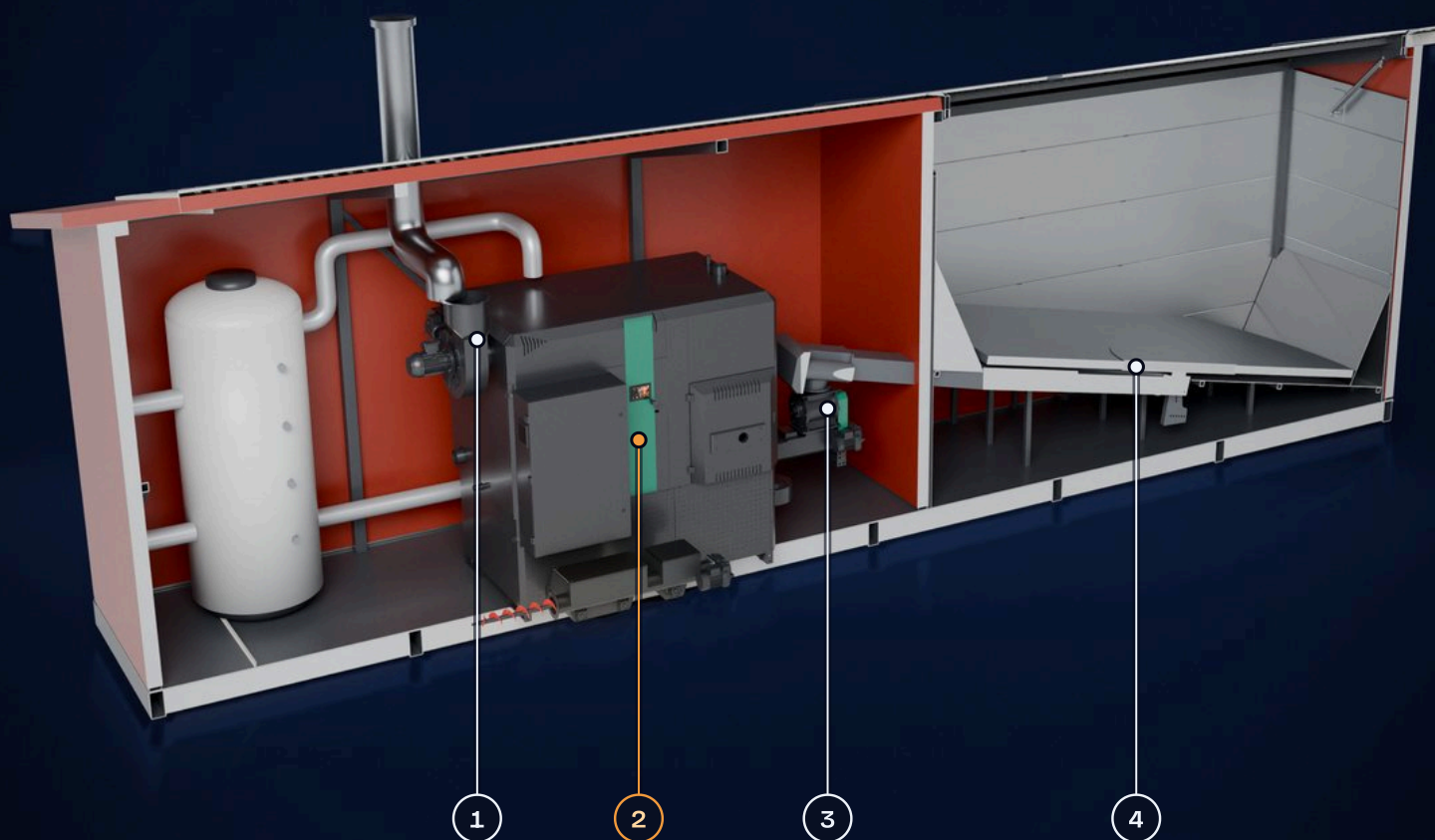
ENGINEERING AND MANUFACTURING

Biotherm Heat AB →

CROSS-SECTION OF THE HEATING PLANT

Inside a heating plant.

The boiler room and the fuel store in the same building. The image is a section from the CAD model of a heating plant with a PelleTech IDRO 400 kW, an accumulator tank and insulated pipes.



① Flue gas fan

Variable-speed, regulates the negative pressure in the boiler.

② PelleTech IDRO

Water-based industrial boiler, here at 400 kW, with a touchscreen on the front.

③ Feed system

Screw, rotary valve and stoker carry in the fuel, with burn-back protection.

④ Spring agitator

In the built-in fuel store, under the same roof as the boiler room.



PELLETECH IDRO 500 IN A DELIVERED HEATING PLANT

— INSIDE THE HEATING PLANT

A complete boiler room.

We supply everything that goes with the plant. All of this is in place in the boiler room when the heating plant arrives.

Boiler with burner

For burning various types of biofuel.

Control and alarms

Internet-based control, operator panel and alarms.

Safety

Complete emergency protection and the necessary safety equipment.

Heat exchanger

Brazed plate heat exchanger with primary circuit pump.

Flue gases

Flue gas cleaning and variable-speed flue gas fan.

Automation

Convection-section cleaning, ash discharge and lambda control.

Web-based

Monitoring, control and fault reporting via the internet.

Demand-driven

Combustion follows the actual heat demand.

Remote support

Our support staff can monitor, guide and control the plant together with your operating staff.

Expandable

The plant can be extended, for example with backup boilers and distribution pumps.

CONTROL CABINET WITH TOUCHSCREEN · FEED SYSTEM IN THE FOREGROUND

CONTROL AND FUEL FEED

The boiler room on screen.

The touchscreen in the control cabinet shows the entire plant. Our own control systems are web-based and offer a range of controls and accessories that no one else on the market can match – everything can be monitored and controlled remotely.

CONTROLS AND ACCESSORIES

Burn-back protection

Sealed rotary valve, stoker and sprinkler.

Thermostats

Heat output follows actual demand.

Lambda control

Combustion is adjusted to the flue gases.

Flue gas fan

Variable-speed, maintains boiler negative pressure.

Alarms and remote monitoring

Operator panel, alarms and remote control.

Pellet ordering

Calculates consumption and orders new fuel automatically.

Automation

Convection-section cleaning and ash discharge.

Emergency protection

Complete, with required safety equipment.



PELLETECH IDRO 500 IN A HEATING PLANT

— WATER-BASED HEATING

Industrial boiler, ready in place.

PelleTech IDRO is a water-based industrial boiler. It can be installed in an existing boiler room, delivered ready-made in a container or built into a heating plant – fixed or mobile, with a built-in fuel store.

OUTPUT RANGE

IDRO 200 kW–8.8 MW

FUELS

Pellets, wood chips, residues and oil

MANUFACTURER

PelleTech, part of BWT

HOT AIR

Hot air, ready in a container.

PelleTech AERO heats air instead of water. The air is heated outside the premises and led in through ducts, with no flue gases indoors.



OUTPUT RANGE

AERO 60 kW–8 MW+

FOR

Industrial premises, greenhouses and drying

MANUFACTURER

PelleTech, part of BWT

— FIXED OR MOBILE

Fuel under the same roof.



HEATING PLANT WITH BUILT-IN FUEL STORE, ROOF HATCH OPEN

In the Biobox ALL INclusive, the fuel store is part of the heating plant: 17 – 30 m³ depending on the model, with a hydraulically opened roof hatch. It arrives ready – connect power, buried pipework and water, and start it up. And it can be moved if needed.

BUILT-IN STORE

Biobox, 17–30 m³

OR SILO

11–185 m³

SCRAPER-FLOOR STORE

Up to 500 m³

SPRING AGITATOR

Up to 180 m³



HEATING PLANT WITH PELLET SILO, CHIMNEY AND ASH CONTAINER

EXAMPLE DELIVERY

Everything included.

We supply the entire installation – chimney, buried pipework, boiler, burner and fire protection – so that all the parts work together.

STORE TO SUIT THE FUEL**Pellets**

Vertical, horizontal or built-in silo, with screw and high- and low-level sensors.

Wood chips and briquettes

Spring agitator, scraper floor or container exchange – the supplier swaps containers while an intermediate store keeps the boiler fed.

ALWAYS INCLUDED

- Turnkey heating plant
- Chimney
- Fully automatic boiler
- Automatic ash discharge
- Accumulator tank
- Commissioning and training
- Documentation and CE marking

Function and performance guarantee on delivered plants. Optional: service agreement with free support and our spare parts package.



01

Engineering

Calculations and drawings in 3D.

02

In-house manufacturing

Tested and fine-tuned before delivery.

03

The lift

Set in place by crane.

04

Site installation

Biotherm or local contractors.

05

Commissioning

Fine-tuning and training.

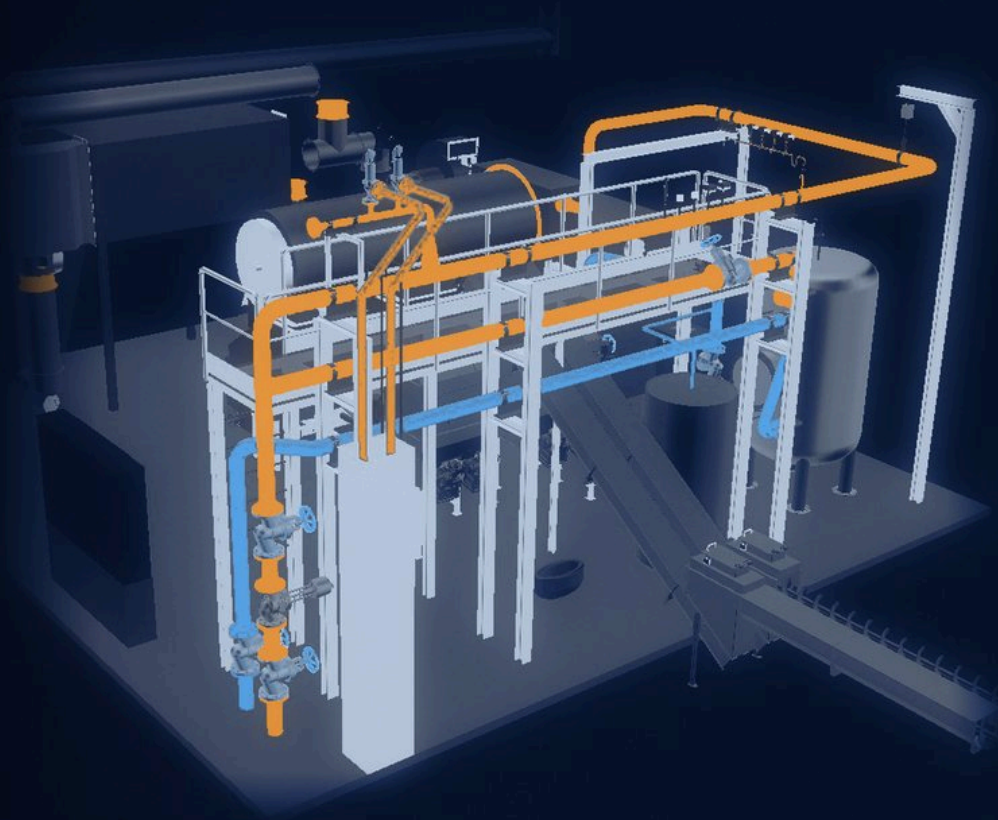
DELIVERY

Ready when it is lifted into place.

We build the heating plant ourselves. It is tested and fine-tuned before delivery, and the boiler room is CE marked. You choose whether Biotherm or local contractors carry out the site installation.

ENGINEERING IN 3D

Every pipe drawn before assembly.



HEATING PLANT IN IRONCAD · FLOW SHOWN WARM, RETURN COOL

Heat-load calculation

Free of charge – the first step.

3D drawings

In IRONCAD, 3D CAD drawings and dimensioned site drawings are always included in the delivery.

System documentation

For the entire plant.

Operation and maintenance

Instructions included.

Insulated pipes

And labelled components.

Every plant is calculated, drawn and engineered for the individual customer. Everything is drawn in 3D, so that the boiler, fuel store, tanks and pipes are sure to fit before anything is built.

No two are alike.



Conditions on site mean that no two deliveries are the same – from fuel and storage to the colour and shape of the heating plant.

Often the plant needs to blend into its surroundings. Our flexible manufacturing makes custom solutions possible – developed together with you and the architect of your choice.

Fuel and storage

Chosen to suit your conditions.

Colour and shape

To suit the site and the architecture.

3D drawings

Already at the quotation stage, as a basis for the right decision.

— MONITORING AND SERVICE

Secure, even when no one is there.

Biotherm handles service with alarms, remote monitoring and remote control – nationwide, for our own and other brands.



MONITORING

Alarms and remote monitoring

CONTROL

Remote control, touchscreen on IDRO

BURN-BACK

Sealed rotary valve and sprinkler

SERVICE

Our own and other brands

— SUSTAINABLE HEATING SINCE 1976

One contact. All the way.

A family business in its fourth generation, with 50 years of experience and offices in Västerås and Luleå. We calculate your heating – and we are still here once it is running.

Needs analysis

With a free heat-load calculation.

Engineering

Drawings in 3D.

Manufacturing

Alongside PelleTech's solutions, we also manufacture our own heating plants and 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 installation, from fuel store to finished heat.

PHONE

+46 (0)921-578 00

EMAIL

info@biothermheat.com

HEAD OFFICE

Utvreta 13
725 92 Västerås

BRANCH OFFICE

Luleå



READ MORE

biothermheat.com

PelleTech, IDRO and AERO are trademarks of PelleTech, which is part of BWT. Biotherm Heat AB is the general agent for PelleTech in Scandinavia. Data according to PelleTech's technical specification, subject to change. Final data for your plant is provided at the design stage. The images of the heating plants on pages 1, 3, 4 and 8 are taken from CAD models. © 2026 Biotherm Heat AB.