



**Euroheat**  
Natural Energy Company



**SHT Austria**

# PNA Thermocomfort

Fully automatic pellet boiler  
15 – 30 kW



# Innovative heating with pellets...



## Comfort & Reliability

The PNA Thermocomfort is the latest generation of pellet boiler from SHT Austria. Designed from the outset for high performance, high efficiency, and easy maintenance, it offers the very best of wood pellet central heating and hot water production.

With automatic cleaning turbulators and a patented de-ashing system, the boiler requires minimal user maintenance. Ash requires emptying every 4 tonnes of pellet burnt, equating to 1-3 times per year depending upon the heat demands of the property. The boiler requires just a single service annually, in line with MCS requirements.

The boiler is available with a choice of pellet storage systems, from a simple 170 litre hopper located on the side of the boiler, to one of many different bulk storage solutions featuring either vacuum or auger transfers.

With concise clear controls the operation of the PNA Thermocomfort is very simple and intuitive, and can even be controlled remotely via smartphone or laptop.

The efficiency is optimized by the four different performance outputs of the PNA Thermocomfort - offering the perfect heating system for your home.



# The latest generation wood pellet boiler...



## The PNA Thermocomfort

The PNA Thermocomfort encompasses everything you could want from a latest generation pellet boiler.

Unusual for domestic pellet boilers, the PNA Thermocomfort features both lambda sensor and flame temperature sensor for perfect combustion control and maximum efficiency at all times.

The high-grade refractory combustion chamber enables effective residual heat to remain for many hours, reducing the need for the electrical ignition and speeding up the start up phase.

**1 Speed-induced draft fan**

Automatically adjusts the fan speed to ensure optimum combustion conditions

**2 Primary air motor**

Automatically adjusts the primary air for optimum efficiency

**3 Secondary air motor**

Automatically adjusts the secondary air for optimum efficiency

**4 Stainless steel tilting grate**

High grade material ensures maximum working life whilst automatic tipping enables months of use without the need to attend to the boiler

**5 Automatic de-ashing**

The patented de-ashing system transfers the combustion residues into the integrated ash pan

**6 Ash pan drawer**

Large integrated ash pan for extended periods between emptying and quick and easy emptying



**7 Automatic Heat Exchanger Cleaning**

Fully automatic cleaning of the heat exchangers without the need for manual operation

**8 Control board**

Complete control of the system including all stages of combustion and heating system with weather compensation

**9 Cleaning Turbulators**

Ensure the heat exchangers of the boiler are kept clean for continuously high degree of efficiency and the lowest fuel consumption

**10 Refractory combustion chamber**

Featuring silicone carbide composite material developed exclusively for the high temperatures needed for the complete combustion of the fuel

**11 Pellet insertion auger with rotary sluice**

Modulates the exact quantity of pellet required at each stage of combustion

**12 Low energy ignitor**

The low energy ceramic ignitor ensures a quick and low cost ignition



# Key features of the PNA Thermocomfort...



## **Ease of use**

The automatic heat exchanger cleaning and the patented de-ashing system allows the boiler to run for extended periods whilst maintaining the highest efficiencies. Coupled with one of many pellet storage solutions, the PNA Thermocomfort offers all the automation you could require.



## **Easy Display**

A quick glance at the boiler display provides all the useful information on the system including current energy in the accumulator, operating status of the boiler, boiler temperature and outside temperature.



## **Longevity**

Built using the highest quality components by the finest Austrian craftsmen, the PNA Thermocomfort is perfectly engineered and finished to the highest standards.



## **Quiet periods**

During the night, the boiler's tipping grate and heat exchanger cleaning system are not operated, ensuring a warm and undisturbed night's sleep.



## **Flexibility**

The PNA Thermocomfort is available in 4 different sizes, with a multitude of pellet feed systems, ensuring a perfect solution to your heating and lifestyle requirements.



## **Environmentally friendly**

The low energy, 270 watt ignition element ensures an environmentally friendly lighting of the boiler. The low power consumption also means less expenditure with an average cost of just  $\frac{1}{3}$  penny per ignition.



### Small footprint

The clever design of the PNA Thermocomfort gives it a small footprint, meaning it will fit into the tightest of spaces. The flue can exit either through the top or rear of the boiler, whilst the pellet feed system can be located either on the left or right hand side, giving you the flexibility for any boiler room layout.



### Economy

Through the use of the residual heat of the refractory combustion chamber, the boiler re-ignites without the need for the electrical ignitor. This improves both fuel consumption on the boiler and wear on the ignitor to maximise cost savings.



### Efficiency

Featuring both a lambda sensor and flame temperature sensor, the PNA Thermocomfort is able to achieve the maximum combustion efficiency. This ensures the lowest fuel consumption even in variable conditions.



### Weather compensation

The PNA Thermocomfort can be fully integrated to a heating system with weather compensation as standard. By integrating the boiler with the heating system, the efficiency is improved, reducing annual fuel costs by as much as 20%.



### Safety

The PNA Thermocomfort features a comprehensive safety system including rotary sluice, auger temperature sensor, and boiler sensor.



# Pellet storage solutions for every lifestyle...



## Manual hopper

Two manual hoppers are available for the PNA Thermocomfort, one 170 litre and one 200 litres in capacity. These hoppers are ideal for installations where the heat demand is relatively low and lifestyle permits weekly refuelling. Either system can be expanded at a later date to utilize the Visionconvey suction system.



### Vario flexible auger

The Vario flexible auger system features a clever, centreless auger, enabling the pellet store to be sited adjacent to the boiler. The system can be expanded modularly to provide the desired storage capacity.



### Suction probes

Pellets are conveyed by means of vacuum air movement from a remote store to the local store of the boiler. Normally three pellet probes are located in the bottom of a bulk wood pellet fuel store. These probes work independently to each other as they are controlled via a master vacuum switch. The controller uses intelligent decisions to change which probe the pellets are currently being drawn from ensuring equal distribution.



### Visionconvey air suction system with pellet store

The Visionconvey air suction system enables the siting of a bulk pellet store up to 20 metres away from the boiler. The pellet store is available in a number of sizes to suit individual site requirements. It can be installed indoors or outdoors.

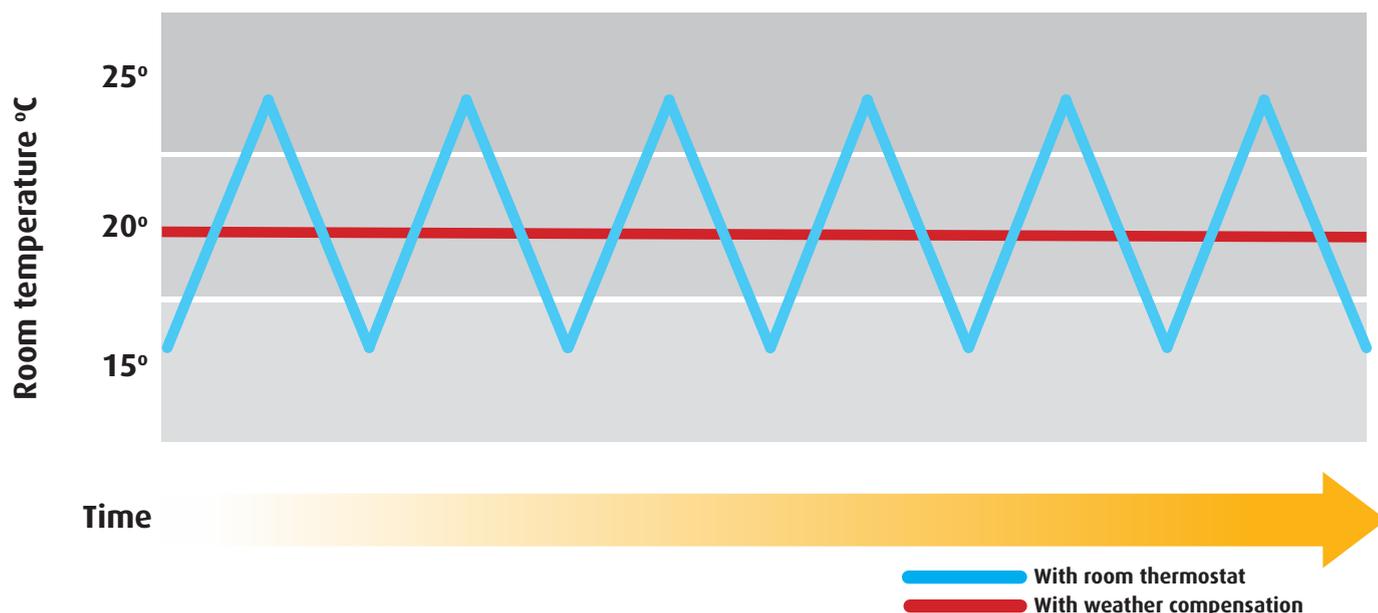
# Efficient control of your heating system...

The PNA Thermocomfort is able to control your entire heating system from its intelligent on-board controller, negating the need for expensive standalone controllers and achieving fuel savings of up to 20%.

Utilising an outdoor temperature sensor, the PNA Thermocomfort automatically adjusts the temperature in your heating system according to the temperature outside. The colder the temperature outside, the more heat is lost from your building and therefore the more heat is needed to replace that lost. The PNA Thermocomfort ensures the heat put through your radiators or underfloor system matches the heat lost from the building, ensuring your

room stays at a comfortable temperature without being too hot or too cold.

What's more, weather compensated controls ensure your system is pro-active to changing temperatures, not reactive like traditional room thermostats. With a traditional room thermostat, the boiler output is altered when the temperature in the building has become too hot or too cold. With weather compensated controls, the outdoor sensor detects the change as soon as it happens, automatically adjusting the system temperature to ensure the inside temperature remains stable.



Weather compensation is particularly useful in our UK climate, where the weather fluctuates significantly from day to day, and where we only need the boilers full output (and maximum system temperature) for a short period of the year.



As well as controlling the heating system, the PNA Thermocomfort can control your hot water cylinder, ensuring you have a plentiful supply of hot water whenever you require it.



## Control from anywhere in the World...



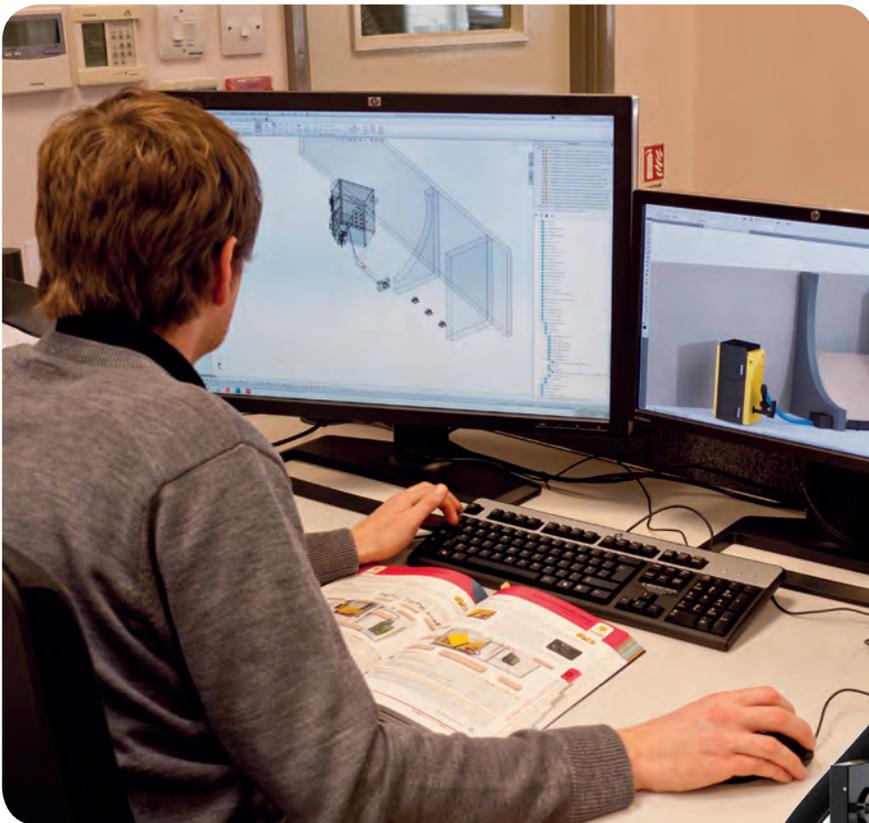
The PNA Thermocomfort remote monitoring package allows complete control of your system from anywhere in the world via tablet, PC or smart phone.

Simply log into your system to see all the information at a glance. You can even alter and change system settings remotely, so if your arriving home earlier than expected from your holiday, your house will be nice and toasty for your arrival.

With all the automated comfort and convenience of the PNA Thermocomfort, we know its easy to forget about your boiler. Not a problem, the PNA Thermocomfort will simply email you to remind you when it needs you - from telling you to empty the ash container, to booking a service call.

With remote access, one of our heating technicians can log in to your system, diagnosing any problems and solving them over the phone with simple step by step instructions, negating the need for one of our engineers to visit site.

## Designed to suit your property...



With over twenty years experience, and over a thousand successful biomass installations, we understand that installing a biomass boiler can be a big step. That's why we offer all the technical advice and support you will need - from suitable boiler fuel and boiler size, to fuel storage requirements, and heating system integration.

Our biomass design team will work with you throughout the process, producing a detailed 3D design from our specialist software to give an exact layout of your proposed boiler room. This ensures you are happy with the proposal, whilst ensuring all minimum distances, fuel logistics and other important considerations are met.

If you would like to view biomass boilers first hand, our approved installation partners will take you to one of their previous installations, or you are always welcome to visit our biomass showroom and national training centre to get a feel for the biomass subject first hand.

**Call one of our friendly  
biomass team now on  
01885 491100  
or visit  
[www.euroheat.co.uk/](http://www.euroheat.co.uk/)  
wheretobuy to find your  
nearest Euroheat partner**

## Technical spec at a glance...

		PNA 15	PNA 20	PNA 25	PNA 30
Rated power	kW	15 kW	20 kW	25 kW	30 kW
Fuel wood pellets		EN Plus (Diameter 6 mm, Ash <0.7%, Moisture <10%, Fines <1%)			
Dimensions		1210 x 766 x 948 mm			
Boiler weight		c. 395kg			
Efficiency		c. 90%			
Flue outlet		130 mm			
Flue gas temperature		TBC			
Boiler volume		120 litres			
Ash container	Ltr	24 litres			
Chimney draught	Pa	5-20			
Pellet ignition		270W low energy electrical ignitor			
Minimum accumulator size	Ltr	500 litre	600 litre	800 litre	1,000 litre



## Want to burn logs?



The TDA Thermodual is the ultimate in wood log/pellet dual fuel boilers. Unique to the market, the TDA Thermodual will switch automatically from burning wood pellets to wood logs and back again, without the need to change grates, air flaps, or boiler settings. The Thermodual provides a fully automated high output and high efficiency from a combined pellet and wood boiler.

- Choice of outputs from 15 – 38 kW
- Dual fuel, wood or pellet
- Lambda controlled combustion for maximum efficiency
- Automatic heat exchanger cleaning
- Choice of pellet storage solutions
- Weather compensated heating control





For those who need heat quickly or have space limitations, the Euroheat Biomass Energy Cabin is the ideal solution. It comes complete ready to use with boiler, accumulator and feed system already installed. Heat with sustainable, natural energy from the Euroheat range of exceptional, eco friendly, wood biomass boilers.



- HDG split log boilers
- HDG wood chip, pellet and split wood systems
- HDG pellet heating systems
- TDA Thermodual wood and pellet boiler
- PNA Thermocomfort pellet boiler
- Buffer tank, accumulators and thermal stores
- System components
- Euroheat Biomass Energy Cabins

Speak to one of our HDG team

**01885 491100**

Inspiration and information

**[www.euroheat.co.uk](http://www.euroheat.co.uk)**



**Euroheat**  
Natural Energy Company

Bishops Frome Worcestershire WR6 5AY

Reception **01885 491100**

Email **[info@euroheat.co.uk](mailto:info@euroheat.co.uk)**

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