VÄRMEBARONEN

Wood pellet heating

Wood pellets – economical and environmentally friendly









easy wood pellet heating

ENVIRONMENTALLY FRIENDLY AND ECONOMICAL

Wood pellets are a biofuel that is usually manufactured from sawdust. When you use wood pellets as a fuel, the substances released into the atmosphere are re-absorbed by growing plants and trees, creating a natural cycle – unlike burning fossil fuels or generating electricity from oil or coal. The net emissions of carbon dioxide are zero. Wood pellets are also a local fuel, creating employment and generating revenue within your country.

BENEFITS OF WOOD PELLETS

- RENEWABLE ENERGY SOURCE
- MINIMAL ENVIRONMENTAL IMPACT
- LOW PRICE
- EASY TO HANDLE
- AVAILABLE IN SACKS OR AS BULK LOADS
- WIDE CHOICE OF SUPPLIER
- LOCALLY PRODUCED
- REDUCED ELECTRICITY CONSUMPTION
- AN EASY WAY TO SWITCH TO BIOFUELS
- CAN BE USED IN EXISTING BOILERS
- NO NEED TO CHANGE THE VENTILATION IN THE BUILDING



flexible solutions for all home owners

FULL RANGE

Värmebaronen has been Sweden's biggest supplier of pellet boilers for years. Our range of boilers includes models designed for all needs. They all have the same sturdy combustion chamber, developed from our efficient, low-maintenance firewood boilers. A large ash bin means there is no need for constant emptying.

- Pellmax UB – flexible pellet unit

- Viking Bio – tried and tested pellet burner

FOR LOW-COST HEATING

In recent years, there has been dispute about which method of heating is the most economical. Pellets will save money compared to oil and gas. The price of pellets has stablized, and availability has been good. The disadvantage of wood pellets is that they need a certain amount of maintenance, but with the Pellmax series, this factor has become less significant.



WHAT ARE WOOD PELLETS?

Pelletising is a way of conserving and concentrating biological material. The principle involves drying out the wood and compacting it into a narrow rod 6-12 mm in diameter. The rod is then cut into short pieces, generally around 25 mm in length.

HOW DOES IT WORK?

Wood pellets can be burned in most boilers, but it is most convenient to use a pellet boiler. A pellet store is needed, and a range of sizes is available. An auger is used to automatically feed the wood pellets from the store to the pellet burner.

MOVIE ABOUT WOOD PELLETS

We have posted a movie about wood pellets on our web site www.varmebaronen.com, or you can order a free DVD.

DO YOU HAVE ANY QUESTIONS?

YOUR DEALER WILL GLADLY ASSIST YOU.

In order to be able to assist you quickly and properly, we need some information regarding you current heating system and what you would like to change

- How big is your house?
- What kind of heating system do you use today?
- How old is your heating system?
- Where do you live?

www.varmebaronen.com



compact solutions
with a small footprint

COMPACT AND CONVENIENT

The Pellmax series makes it easy to use wood pellets as a fuel. The boilers are compact in format, even though they include a sturdy combustion chamber and an ash bin.

FREE UP SPACE IN THE CELLAR

Now there is no need for cumbersome stores and augers, supply systems and chains everywhere. Unless you want them there of course.
Add the compact Pellets 200 storeage bin (shown) to your Pellmax to create a neat installation with a small footprint. Pelletstore 200 can also be connected to a bulk store. This makes it virtually maintenance-free.

PELLETS ARE ALWAYS RELIABLE

In the winter many home owners realised that when it is was really cold outside their heat pumps did not work well. The cold forced up the price of electricity, so that heat pumps became more expensive to run – making them about as efficient as an electric boiler. The high electricity bill came as a surprise to many home owners. A pellet boiler works well whatever the temperature.

NO NEED TO CHANGE THE VENTILATION IN THE BUILDING

If you use wood pellets instead of a heat pump you can keep the ventilation the house was designed for without risking problems with moisture. There is also no need to change the radiators even if the heating system requires high temperatures in the winter.

it really is this easy!

ORDERING WOOD PELLETS

If you have ever had a standard oil boiler, you know what to do – simply call and order. Many companies now offer the same convienence with wood pellets. Remember that quality is more important than price.

FROM THE STORE TO THE PELLET BURNER

There are various ways you can store your wood pellets. Most people start with sacks and a small store. Fill the store with a couple of sacks, and the wood pellets are then fed to the boiler and the pellet burner. The burner works like an oil burner and does not require any maintenance.

Another option is a bulk store. A bulk store works like an ordinary oil tank, and is filled by a bulk vehicle. The advantages are that you do not need to handle sacks, and the price is even lower. On the other hand, the store takes up a lot of space.

USING WOOD PELLETS DAY TO DAY

Wood pellets are convenient. If you have a bulk store, the system looks after itself. If you have a smaller store, you will need to top it up from time to time depending on how cold it is outside. You will soon work out how often you need to add more wood pellets. You will also need to check the boiler and the burner occasionally. For much of the year this will only be a couple of times a month.

MAINTENANCE

All types of combustion-based boilers need some kind of maintenance because they produce soot and ash. With the right pellet boiler, the work involved in minimal. The Pellmax has a large ash bin that does not need to be emptied often, and a sturdy combustion chamber with round pipes.

The boilers are designed to operate for long periods while retaining their high efficiency. That is why the Pellmax does not have an automatic cleaning system with moving parts that can go wrong – there is simply no need. The Pellmax needs a maximum of 10-15 minutes of maintenance per month during the heating season.

Cleaning the boiler is a quick job that guarantees maximum efficiency. If you do it yourself, wood pellets become even more cost effective.



do you have an old boiler?
the Pellmax is easier to look after



Pellmax UB

LESS CHECKING – LESS WORK

One of the main things you will notice early on is that a purpose-built pellet boiler is much easier to look after. Your old boiler probably does not have hatches with quick-release handles, so you have to use tools to open it. The combustion chamber is designed for oil, leaving no space for the ash – so you have to clean it often. Cleaning a domestic boiler is usually a difficult task, because the hatches and pipes are more or less inaccessible. The whole process is awkward and messy compared to a Pellmax boiler.

GREATER EFFICIENCY

A Pellmax pellet boiler can deliver up to 20 % greater efficiency. This is because a pellet boiler is purpose built and optimised for wood pellets, but also because it is better insulated and more airtight than your old boiler. This minimises heat loss, saving you money.

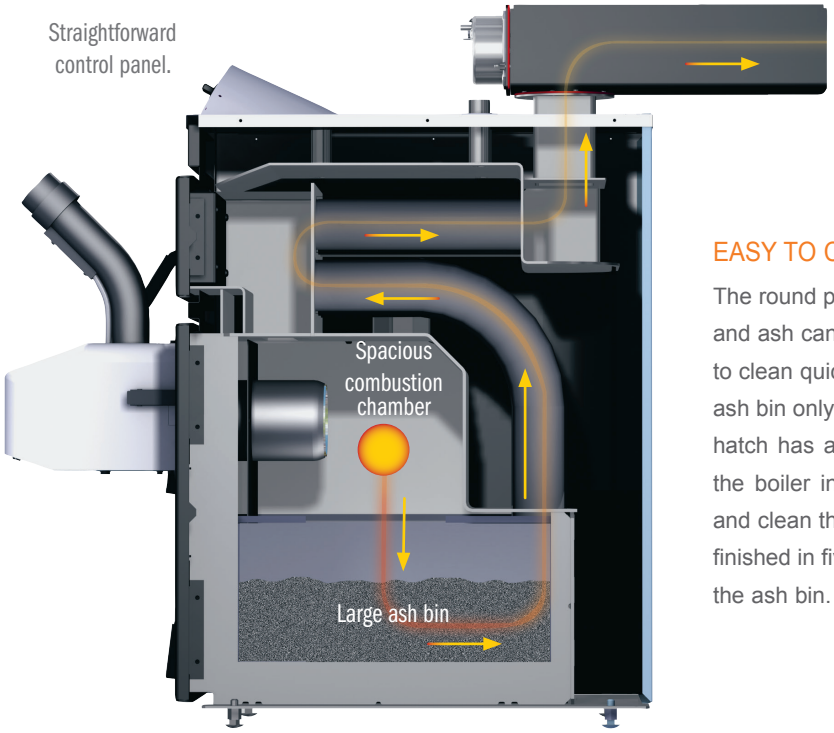
HOW LONG WILL YOUR OLD BOILER LIVE?

Has your old boiler reached retirement age? Boilers often reach the end of their working life at around 15 years old. Do not be tempted to replace it with a second-hand boiler – save time and money instead with a genuine Pellmax.

ENVIRONMENTAL APPROVAL

The Pellmax, with the Viking Bio pellet burner, has been tested by SP Technical Research Institute of Sweden, and achieved excellent results. It meets the requirements of the Swedish National Board of Housing, Building and Planning.

every Pellmax is low maintenance



EASY TO CLEAN

The round pipes in the boiler have no corners where soot and ash can collect. You can use the supplied pipe brush to clean quickly and easily from a single hatch. The large ash bin only needs to be emptied a few times a year. The hatch has a quick-release handle, allowing you to open the boiler in a matter of seconds. Clear out the burner and clean the pipes with the pipe brush. The whole job is finished in five minutes. The soot and ash are collected in the ash bin. It couldn't be easier!



QUALITY

All Pellmax pellet boilers are made to the same high quality as our sturdy firewood boilers. Tried and tested, quality down to the smallest detail.



Viking Bio
pellet burner



SITAC
SP
Kontroll

THOUSANDS OF SATISFIED CUSTOMERS

In recent years, the Viking Bio has easily become the market leader in Sweden for pellet burners. The burner is sold by all major wholesalers, and there are trained installers all over the country. That's how we guarantee that you and your burner will always be able to find spare parts and expert service. You can buy with confidence!

COST

• The Viking Bio usually tries to start with low output. If the burner detects that the output is inadequate (it is cold outside), it automatically switches to a higher output.
• Like all pellet burners, the Viking Bio has wearing parts that must be replaced from time to time. There are not many such parts in the Viking Bio, and they are easy to replace.
• Straightforward design with few moving parts.

COMFORT

• Starts and stops automatically.
• If lots of people have a shower in a short space of time, the burner automatically detects the increase in the hot water requirement and starts heating the water before the boiler calls for heat (not included). This is important if your boiler has a heat exchanger.
• The Viking Bio has an output for external sound or light signals. This is useful if you forget to add pellets.
• The Viking Bio has a low noise level and is easy to clean.

ENVIRONMENT

The burner is highly efficient, with low emissions.

THOROUGHLY TESTED

The Viking Bio has been tested by SP Technical Research Institute of Sweden, and meets all requirements relating to safety and the environment, P mark. The burner has also been tested to EN 15270, a stringent EU standard. It also has UL 391, CSA-B366.1, and ETLM78-1 saftey rating from Guardian Fire Test Lab.



SAFETY

• If there is a problem, you can easily see what it is by reading the panel. This makes repairs easy.
• The unique firing system removes the risk of flue gases collecting and igniting with explosive power – a common problem with pellet burners. The burner ventilates itself as well as the boiler in the ignition phase. Initially, it works calmly and carefully. The flame is built up in stages until the output setting is reached.
• The burner continuously checks for excessive temperatures in the downpipe and the surrounding air. The flame is also monitored. If the burner fails to ignite for any reason, all the flue gases are expelled from the boiler before it shuts down.

RELIABILITY

• The burner has no moving parts except the fan. All hot parts are made of the highest quality stainless steel.
• The Viking Bio has a highly reliable electric ignition. The igniter is monitored to ensure it does not overheat. The igniter therefore needs to be replaced only rarely – unlike many other pellet burners.

LOW MAINTENANCE

• The burner is secured using quick-release fastenings that are easily accessible. Electrical connections and the feed tube also have quick-release fastenings. It only takes about 10 seconds to detach the burner from the boiler! The burner is light and easy to handle.

ADAPTABLE

• The Viking Bio has a forward burning flame just like an oil burner. That means it will fit in other boilers with with proper clearances.

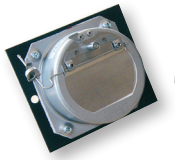
Wood pellet accessories

WHY DO I NEED A DRAUGHT HATCH?

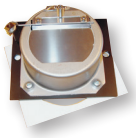
To obtain an even flow of air to the pellet burner, a draught regulator must always be installed. An even air flow creates higher combustion efficiency and greater fuel economy. It also prevents the boiler cooling down when it is not in use, because the air passes through the hatch rather than the entire boiler.



Draught hatch large for larger chimneys
Product no. 2926
Replaces the supplied draught hatch if it is insufficient for the high chimney draught. I.e. the chimney is higher than 8 metres, ∅ greater than 130 mm.



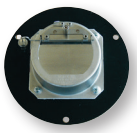
Draught hatch 1 RSK 885 25 88
Fits flue pipe with 45° cleaning hatch.
W: 150 mm, H: 130 mm
Draught hatch 2 RSK 622 19 20
Fits flue pipe with vertical cleaning hatch.
W: 150 mm, H: 130 mm



Draught hatch for firewood flue pipe
Product no. 2924
Fits flue pipe 90351, standard for firewood boilers.
W: 150 mm, H: 130 mm



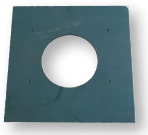
Draught hatch for cleaning hatch Product no. 2925
Fits cleaning hatches in chimneys, width 132 mm where the draught hatch is installed.



Draught hatch for Vedolux 37 Product no. 2961
Fits in the fan outlet of the Vedolux 37.
Ø 208 mm



Boiler temperature sensor RSK 621 05 58
Controls the Viking Bio in boilers with heat exchangers or in firewood systems with accumulator tanks. 16° between on and off. Length 2.5m.



Installation plate RSK 621 05 59
Plate, 300 x 300 x 3 mm, with predrilled holes to fit the Viking Bio.



Spacer Viking Bio RSK 621 05 60
To extend the Viking Bio 105 mm from the hatch. Used if the combustion chamber is short or the hatches are narrow. Fits directly onto Värmebaronen firewood hatches. Ø 200 mm connection.

Pelletsförråd 200 pellet store RSK 639 07 94



Width 450 mm
Height 1540
Depth 745

Burner and pellet store, only 102 cm wide (drain valve removed)



Pellet hatch CTC 1100/1200/2200
RSK 621 05 57
Fits the Viking Bio. Complete kit with temperature sensor, spacer and hatch. (Outer burner tube not included).



Room unit Pellmax CU & Elomax
RSK 611 62 95
With control and alarm function.



Attachment for external control
VB product no.: 2956
Controls the Pellmax UB in combination with a heat pump/solar collectors.



Burner hatch
for Viking Bio, hung on the left.
VB product no.: 90280 Pellmax UB
VB product no.: 90283 Pellmax CU and VX



Burner hatch
Hung on the left without outlet.
For other makes of burner.
VB product no.: 90281 Pellmax UB
VB product no.: 90284 Pellmax CU and VX



Burner hatch
Hung on the right without outlet.
For other makes of burner.
VB product no.: 90282 Pellmax UB
VB product no.: 90285 Pellmax CU and VX

Allowing for printing errors or errors on proofs

Pellmax UB

Pellmax UB · RSK 621 05 64

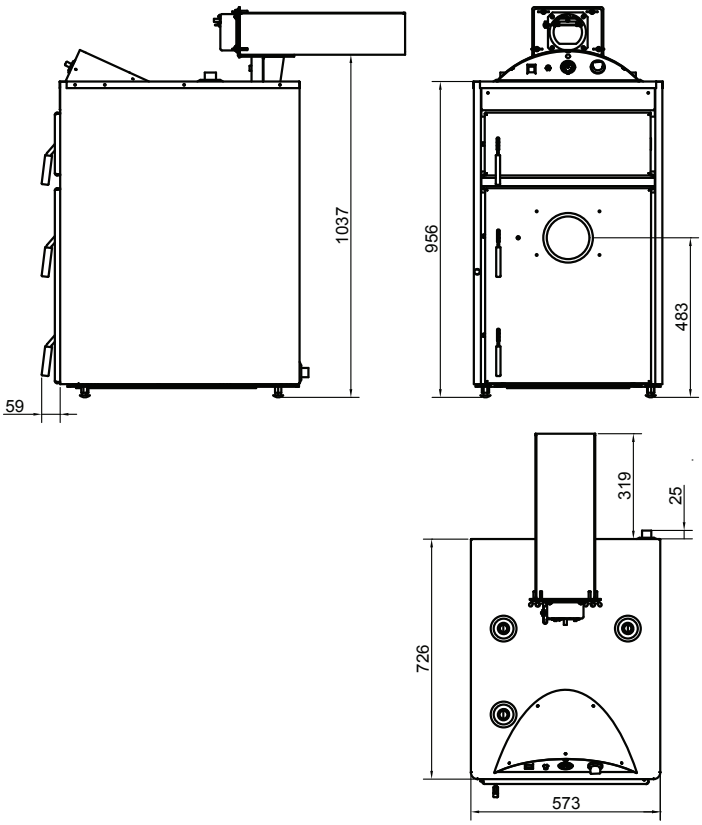
Height 955 mm excl. flue pipe
Width 575 mm excl. drain valve
Depth 730 mm
Ash bin 25 litres
Chimney requirements ∅ min.100 mm, height min. 2 m, draught max.15 Pa
Smoke outlet to the rear
Output 20 kW wood pellets
Weight 210 kg

Accessories included

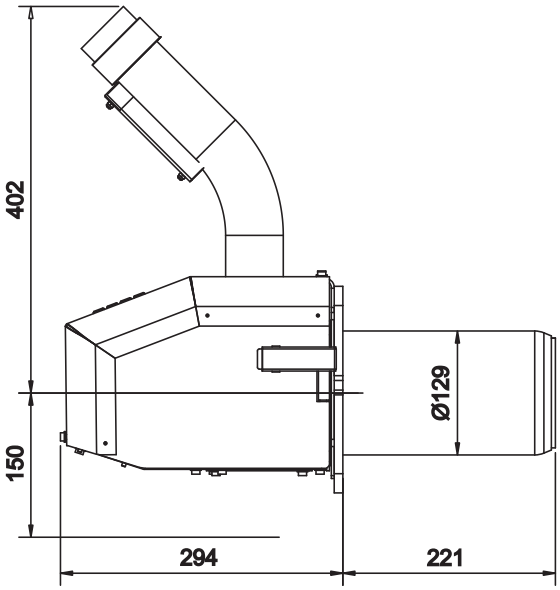
· Angled flue pipe with lockable draught regulator

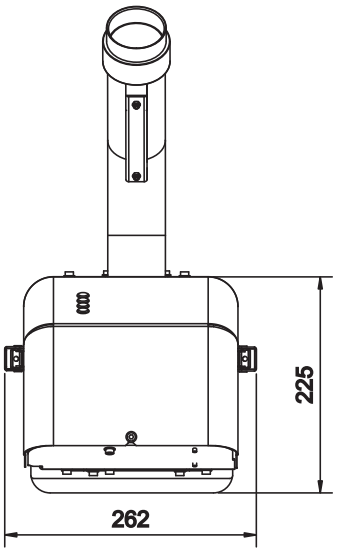
· Cleaning tool with bracket

· Drain valve



Viking BIO





PRODUCT CONTENTS
Viking BIO

- Power cable with European plug
- Flue gas thermometer
- Ash rake
- Hex key
- Screwdriver

PRODUCT CONTENTS
Feed auger

- 1 m pellet hose
- Hose clips
- Chain hanger
- Hook hanger

Type / RSK no.	Output (kW)	Combustion efficiency	Required draught *	Voltage	External dimensions of boiler (mm)				Weight (kg)
					Height	Width	Depth	Length	
Viking BIO 639 07 46	15-20	92%	5-10 Pa	230 V	208	216	296	–	16
Feed auger 639 07 47								1 500	11
Feed auger 639 07 48								2 500	20

*Fuel recommendations: Wood pellets, SS 18 71 20 Group 1, made of sawdust, diameter 8 mm, max. length 32 mm. *Draught regulator must be fitted. Complete package Viking BIO + feed auger 1.5 m RSK 639 07 64. Complete package Viking BIO + feed auger 2.5 m RSK 639 07 65.*

Allowing for printing errors or errors on proofs



Offices and modern production facility in Österslöv, 10 km north of Kristianstad in Skåne

WE MAKE ALL OUR PRODUCTS IN OUR OWN FACTORY IN SWEDEN.

At Värmebaronen, we think it is important to control the entire production cycle from design to delivery. We also think it is important to protect the environment.
Värmebaronen makes pellet boilers, firewood boilers and combination boilers. And also pellet burners, electric boilers and extra heat for heat pumps.
And guess what – we've starting making solar collectors too!
You should also know that when you contact Värmebaronen you will have the personal attention of our heating consultants.
You are very welcome to call us!

MADE IN SWEDEN

ORDER DOCUMENTATION

We have many more catalogues, folders and product information sheets. You can order them by calling or by visiting www.smokelessheat.com

- Using firewood as a fuel – the easy way
- Electric heating and extra heating
- Electric boilers for industrial and domestic use
- Guideline price list
- Service catalogue, spare parts
- Documentation in English, French and German
- Product information sheets and posters
- DVD movies about firewood, wood pellets and installation

VÄRMEBARONEN

RESELLER:

North America Varmebaronen Distribution
SmokeLess Heat LLC
2020 Cornwall Road
Lebanon PA 17042
fax 717-273-9861
Toll Free 855-389-0083
www.smokelessheat.com
info@smokelessheat.com

VB Inhouse 110222 • Printer: www.litografen.se • Allowing for printing errors and errors on proofs