

Viking Royal

Installation and user manual

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Dear Customer!

We are pleased you chose to purchase a Viking Royal cast iron stove. Thank you! You made a good choice!

Viking Royal is a classic stove. Its history stretches far back in time and have helped keep people in the north warm for many generations. You now join that crowd and we wish you many wonderful moments in front of the heat and glow from the flames!

Please read through this manual before using the stove for the first time. If any questions arise, do contact your local dealer for help.

Best regards,

Nordic Heating AB Forsbacka, Sweden

Technical data					
Power (kW)	4,5-14				
Weight (kg)	280				
Height (mm)	1670				
Width (mm)	560				
Depth (mm)	560				
Fire chamber size H, W, D (mm)	390*280*325				
Flue connection (mm)	125				
Effiency (%)	81,4				
Distance to combustible, backside (mm)	>150				
Distance to combustible, sides (mm)	>150				
Distance floor – cc flue connection (mm)	975				
Warranty	10 years				



Introduction

VIKING-ROYAL is made completely out of cast iron and the fireplace chamber is made out of chamotte bricks. The combustions is good and in compliance with EcoDesign.

The stove as a heat resistant glass which makes it easier to keep the glass clean. Primary air is regulated with the damper on the lower door. Secondary air is supplied by using the dampers above the fireplace door.

The chimney connection is placed on the backside of the stove.



To consider before and during the installation

In most cases, local authorities might need to approve the installation of a new fireplace in your home. If you are unsure, do contact your dealer or local authority. Also, please consider that it often is required to have the complete installation checked by an expert, such as a chimney sweeper, before you can start using the stove.

If the stove is to be connected to an existing chimney, make sure the chimney is suitable for it. For example, it needs to have an appropriate length and dimension and without extensive leakages.

Adequate access to combustion air must be ensured. Viking Royal is easy to install in the vast majority of houses, but sometimes an extra wall valves or slit valves in windows need to be installed to get a sufficient inflow of air. In houses with mechanical exhaust ventilation, which creates a strong negative pressure in the house, combustion can be disturbed. Consult your dealer before purchase or installation.

Remember that the floor surface must be completely horizontal and even and able to support the weight of the stove. The stove weighs 280 kg. In normal cases, Viking Royal can be installed without floor reinforcement measures, but consult a professional if you are unsure.

Safety distance to combustible material

For combustible and heat-sensitive floors, you must use a fire-proof floor protection that must cover an area of at least 30 cm in front of the stove and at least 10 cm from the side. For this, there are suitable glass and floor plates in metal. NOTE: Local regulations in your country can be different. If you are unsure, ask your local dealer for help!

If the ceiling height is below 220 cm, heat-reducing measures should be ensured above the stove. This can for example be a heat shield with an air gap or a silicate board. Ask your dealer or other local expert for advice.

Keep at least 100 cm free in front of the stove. Behind the stove and to the sides of the stove, a distance of at least 15 cm to combustible material must be maintained. Safety distances can be reduced through heat-reducing measures.

Please note that uninsulated flue pipes are assessed individually and often have different distance requirements than a stove. If needed, this too can be reduced with heat-reducing measures. For insulated pipes, other measurements apply, often significantly lower. Read the chimney manufacturer's instructions.

Recommended fuel

Only wood logs with a maximum moisture content of 20% should be used in the stove. Wood with higher moisture content creates a bad combustion and makes the glass and chimney dirty.

First time the stove is used

Before and during the first usage of the stove make sure the door to the combustion chamber and ash box are slightly open to prevent the sealing material and varnish from melting together. During the first usage, the stove must be kept under supervision.

The varnish only hardens after a few hours of heating. Check the gaskets of the stove before the first use. During the first usage, the temperature must be kept quite low (add smaller amounts of fuel more often). All materials must first adapt to the heat and the gasket must dry out. This prevents micro cracking, damage to the paint and deformation of the material.

All stoves tend to create an unpleasant smell the first time they are used. The smell will soon disappear.

To start and maintain a fire in the stove

NOTE: It is forbidden to use liquid fire lighters (such as gasoline, lighter fluids etc) to start a fire!

With the help of a solid kindling agent (for example, fire lighter bags) and dry wood, it is very easy and quick to light a fire. Place a couple of larger wood logs in the bottom of the combustion chamber and cover it with small logs. Keep som distance between every log or air can flow in between. Then, place the kindling agent on top of the smaller pieces of wood. Allow the fire to burn with the primary and secondary air controls fully open after ignition. The combustion air is then supplied to the fuel through the grate from below (primary air) and also from above (secondary air). The primary air damper should be fully or partially open until a good glow bed is achieved, then reduced and finally fully closed.

Once the fire has started and the draft is sufficient, you can add larger logs. Don't overfill - about three "normal sized" logs will do. Due to the high temperatures of the stove, including the handle, please use the enclosed protective glove.

Large amounts of fuel and an excessively strong draft can cause the stove to overheat and be damaged. Even the chimney and adjacent walls and objects can reach impermissibly high temperatures. Do not add more wood than 1.5-2 kg of wood at a time.

When there are embers and no flames, you can add more wood, but remember:

- Close the damper to the combustion chamber.
- Open the door a little for 3-5 seconds to equalize the pressure, then you can open the door completely.
- Fill with firewood, but do not throw logs into the fireplace. Close the door carefully.

In normal operation, the stove must be used with the door closed and the ash box inserted. Adjust the combustion using the air controls and, if necessary, by reducing the draft in the chimney. Empty the ash box after the fire is burnt out. Make sure the flame is out and the stove has cooled down and that the ash is placed in a non-combustible container.

If the chimney draft is bad, it can cause bad combustion, which might lead to black/dirty glass. Moreover, smoke might escape into the room when the stove door is opened.

When burning at low pressure or in other unfavorable weather conditions, such as strong wind, disturbances in the chimney draft can occur, which means that smoke can enter the room and it can be difficult to get the fire going. Then you should add less wood and open the dampers more until the fire takes hold properly.

In case of repeated problems, it may be that a flue gas fan at the top of the chimney is required. This means nothing wrong with either the stove or the chimney, but probably depends on purely physical phenomena such as where the chimney comes up and how long it is.

Recommendations from the manufacturer

- ✓ Only use spare parts recommended by the manufacturer. Buy them from your local dealer.
- √ Only use wood with the correct moisture content. The wood logs should have been stored outside, under protection from rain etc, for at least one season. Before using them, bring them inside for a few days to dry up even more.
- \checkmark Light the fire on top of the logs. We recommend to use fire lighters of some sort.
- ✓ Even if the stove is built to withstand continuous usage we recommend that both the stove and the chimney is allowed to "rest" the same amount of hours as the stove has been used. For example, if the stove is used for four hours, let it rest for four hours before using it again.

Warranty

Viking Royal comes with a 10 year warranty. Save your invoice as it might be needed in a possible warranty claim.

WARRANTY TERMS

- In case of damage or material defects that occur during the warranty period, the manufacturer provides free replacement parts or, in serious cases, a completely new stove.
- Any damage resulting from incorrect storage, incorrect operation or incorrect maintenance, which does not comply with what is stated in the manual or due to other reasons not attributable to the manufacturer, results in the warranty not being valid.
- The warranty does not cover glass, seals/gaskets or parts that are damaged on them as a result of careless behavior by the user or failury to comply with the instructions in the manual, and especially in these cases:
 - ♦ fuel other than wood has been used,
 - ♦ the fireplace has been loaded with too much wood,
 - ♦ a very large fire has been made in an unheated/cold stove,

- ♦ the fireplace has been showered with water,
- ♦ changes in the stove itself or in the installation
- ♦ mechanical damage
- ♦ failure to follow installation instructions
- ♦ corrosion the stove must be protected against moisture
- ♦ incorrect chimney draft
- ♦ defects resulting from transport
- The gaskets should be replaced before each firing season.
- The warranty does not cover the parts of the fireplace that are in direct contact with the fireplace's burning fuel, such as grates, fireplace plates, smoke diverter shelf, etc. These are considered to be wear parts.
- Discolouration/fading of the patina is a natural phenomenon and does not constitute a valid reason for warranty claims. However, a cast iron stove might be painted if needed. If the need occur, contact your local dealer.
- The warranty only applies if the stove has been installed in accordance with the installation instructions and approved by an expert.
- If a broken stove cannot be repaired at a reasonable cost, the manufacturer is responsible for a new one. The responsibility covers new product and transport of this, not other direct or indirect costs.
- The stove must not be moved from the original installation location.
- Only the manufacturer's spare parts may be used.
- The use of the stove, the method of connection to the chimney and the operating conditions must be in accordance with this manual. It is forbidden to modify the stove in any way.
- The stove is entirely handmade at every stage of production and therefore individual parts and components may differ in appearance and weight. This is not a casting fault and nothing that can render a replacement under warranty!

Declaration of Conformity

Manufacturer: Agromatic Nordic Heating AB Address: Stentorpsvägen 12, 81842 Forsbacka E-mail: info@nordicheating.se

E-mail: info@nordicheating.se
Website: www.nordicheating.se
Telephone: 026-30340



Nebsite: www.nordichea Felephone: 026-30340	ating.se					HEAT	ING		
THIS DECLARATION OF	CONFORMITY IS ISSU	ED UNDER OUR	SOLE RES	SPONSIBILITY FOR TH	IE FOLLOWING	PRODUCT:			
rade name		Viking Roy	al						
Identification of product:		www.nordi	www.nordicheating.se						
THE OBJECT OF THE DI	ECLARATION DESCRIB	SED ABOVE IS IN	I CONFOR	MITY WITH					
The relevant union harmo	nization legislation:	Relevant h	armonized	standards:					
DIR 2009/125/EC		EN 13240:	EN 13240:2001/A2:2004/AC:2007						
			CEN/TS 15883:2010						
REG (EU) 2015/1185 REG (EU) 2015/1186		CEN/15 IS	0883:2010						
REG (EU) 2017/1369									
REG (EU) 305/2011									
Technical documentatio		NI-							
ndirect heating functional	ity:	No	No						
Direct heat output (kW)	EEI)	11,3	·						
Energy Efficiency Index (E	==:)		108						
Test report number		3156 A1 23	ა 						
Fuel	Recommended fuel	Alternative fuel	ηs [x%]:	Emi PM	issions at nomi	nal heat output CO	NOx		
Wood logs with	Ja	No	71,4	43	103	1373	132		
moisture content ≤25% Compressed wood with			. ,	-			1		
moisture content <12%	No	No					1		
Other woody biomass Non-wood biomass	No No	No No							
Lignite briquettes	No	No							
Peat briquettes	No	No							
Blended biomass and fossil fuel briquettes	No	No							
Other fossil fuel	No	No							
Characteristics when ope	rating with the preferred	fuel							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Heat output				Useful efficiency, base	d on net calorific y	value			
Trut output				eserui emerency, suse					
Nominal heat output	Pnom	11,3	kW	Useful efficiency at nominal heat output	ηth,nom	81,4	%		
Auxiliary electricity cons	umption			Type of heat output/ro	oom temperature c	ontrol			
Vid nominell avgiven värmeeffekt	elmax	-	kW				Yes		
Vid lägsta värmeeffekt	elmin	-	kW	Two or more manual stages, no room temperature control		No			
I standbyläge	elSB	-	kW	With mechanic thermostat room temperature control			No		
				With electronic room temperature control		No			
		1	-	With electronic room temperature control plus day timer With electronic room temperature control plus week timer			No No		
				Other control methods			110		
				Room temperature control, with presence detection		No			
				Room temperature control, with open window detection		No			
				With distance control o			No		
Specific precautions for ass maintenance	sembly, installation, or	of product, alwa	ays consider	nimum declared distance to general risk for fire in surrigen for combustion.					

The undersigned is responsible for the manufacture and conformity with the declared performance.

Marcus Frisk, CEO, Agromatic Nordic Heating AB. Forsbacka, 2023-09-20

Declaration of Performance



Declaration of performance according to regulation (EU) 305/2011 Nr $\,$ NH-1450

Product trade name	Viking Royal		
2. Intended area of use	Wood burning stove		
3. Manufacturer	Agromatic Nordic Heating AB		
	Stentorpsvägen 12		
	818 42 Forsbacka		
4. According to AVCP	System 3		
5. European standard	EN 13240:2001/A2:2004/AC:2007		
Notified Body Name	Instytut Nafty I Gazu		
	ul. Lubicz 25A		
	31-503 Krakow, Poland		
Notified Body ID	1450		
Test report	3156 A1 23		
Essential characteristics	Performance		
Fire Safety	Pass		
Flue gas temperature in flue	242,5°C		
connector at nominal power			
Safety distance to combustible	Minimum distance in mm		
materials	sides 150 mm		
	rear 150 mm		
	in front 1000 mm		
Emission of flue gases	CO: 0,11%		
Release of dangerous substances	NPD		
Fuel storage place safety	NPD		
Surface temperature	Pass with glove		
Mechanical resistance	Pass		
Nominal heat output	11,3 kW		
Efficiency 81,4%			

The undersigned is responsible for the manufacture and conformity with the declared performance.

Marcus Frisk, CEO Forsbacka 2023-09-30 ϵ