

SUMMIT

SUMMIT
NORD



SUMMIT OPEN

SUMMIT EXTENDED

WOOD-BURNING SAUNA STOVES

INSTRUCTIONS FOR INSTALLATION AND USE



EC DECLARATION OF CONFORMITY

Manufacturer: **Summit Nord MB**
Address: **Skirgiškių str. 111, Bratoniškės, LT-15143 Vilnius distr., LITHUANIA**

The undersigned Company hereby declares that the equipment described below

Type of product: **Sauna stoves**
Model(s): **SUMMIT EXTENDED, SUMMIT OPEN.**

Complies with the provisions of the "GENERAL PRODUCT SAFETY DIRECTIVE" 2001/95/EC.

Also complies with the provisions of the following European Directive(s): -

Harmonized standards applied: -

Other technical standards and specifications used:

STR.1.01.04:2015 – "Assessment, inspection and declaration of construction products without sustainable technical specifications, performance properties. Designation of test laboratories and certification bodies. National technical assessments and designation and publication of technical assessment bodies." – *Lithuanian technical regulation.*

SIGNED ON BEHALF OF THE MANUFACTURER:

Name: **Sigitas Pasakinskas**

Position: **director**

Place / date: **Vilnius, 10-01-2023**

Signature: 

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stoves from cast iron

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Manufacturer
MB "Summit nord"
Lujos str. 8
LT06200 Vilnius



Made in LITHUANIA

Model: SUMMIT OPEN
Sauna room size up to 25m³
Weight: 190kg
Heating Power: 25kw

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Manufacturer
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Made in LITHUANIA

Model: SUMMIT EXTENDED
with steam generator box
Sauna room size up to 25m³
Weight: 208kg
Heating Power: 25kw

INTENDED USE OF SAUNA STOVE

The stove is designed and must be used only for its intended purpose - for heating air in the sauna room. It is not suitable for any other purpose, such as accommodation heating. Any other use is improper and therefore potentially dangerous. The manufacturer is not responsible for damage caused by improper, incorrect or unreasonable use of the stove or errors in its operation.

SUMMIT sauna stoves are designed with high technology to maintain the durability of the product. The construction of the stoves stands out by a heavy stone tray that produces finely dispersed steam and long heat retention.

SUMMIT stoves are for individual use.

Important! The sauna stove should only be connected to the chimney by a specialist.

HOW TO CHOOSE THE RIGHT SUMMIT MODEL?

This manual contains installation instructions for OPEN masonry, OPEN with stone cage, EXTENDED masonry, EXTENDED with stone cage, EXTENDED with soapstone cladding. Please follow the instructions for your chosen model carefully.

Measure the size of your sauna room and multiply its length, width and height (in meters). Add to the result if:

- your sauna of logs +3m³
- the sauna room does not have an additional source of heating +3-5m³ (depends on size)
- there is a window +1-3m³ (depends on size)
- there is a glass door +2m³
- the number of people having sauna exceeds 4-5 person, add +2-4m³

All SUMMIT sauna stove models shown in this manual are suitable for sauna rooms of 18-25m³.

SUMMIT OPEN is a cast-iron stove for masonry;

SUMMIT OPEN with stone cage - cast iron stove ready for use. The sauna stove requires sauna stones;

SUMMIT EXTENDED - stove for masonry or optionally with soapstone cladding. An additional 40kg of sauna stones are required for the closed stone tray;

SUMMIT EXTENDED with stone cage - the stove is ready for use. Sauna stove requires sauna stones. For the closed stone tray an additional 40 kg of sauna stones are required.

SUMMIT soapstone cladding is designed to be used in combination with SUMMIT EXTENDED stove.

SPECIFICATION FOR SUMMIT SAUNA STOVES

The specifications for sauna stoves are given in Table 1.

Table 1

	SUMMIT OPEN	SUMMIT EXTENDED
Size of sauna room	<25 m ³	<25 m ³
Sauna stove type	Wood-burning	Wood-burning
Length of firewood	40 cm	40 cm
Door type	Enlarged	Enlarged
Door glass size (width x height)	315 x 252 mm	315 x 252 mm
Sauna stove material	Cast iron	Cast iron/steel
Weight of the stove	190 kg	208 kg
Material of stone cage	Steel	Steel
Weight of stone cage	24 kg	27 kg
Capacity of stones in the stone cage	140 kg	180 kg
Stone capacity in EXTENDED stone tray	n/a	40 kg
Flue pipe diameter	115 mm	115 mm

Keep this instruction for use during the period of use of the product.

Dimensions (mm) of SUMMIT sauna stoves see Table 2

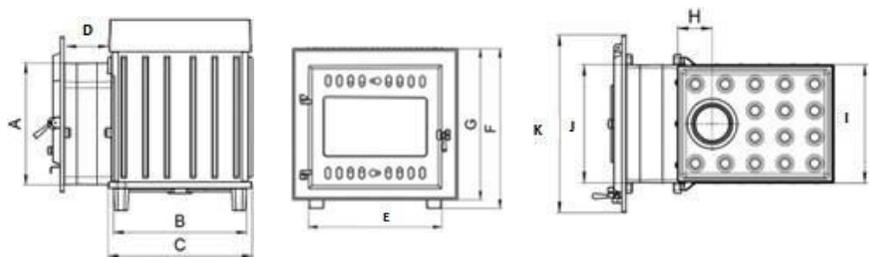


Table 2

A	393
B	405
C	454
D	190
E	297
F	558
G	504
H	108
I	330
J	341
K	501

The dimensions of the SUMMIT OPEN with stone cage, SUMMIT EXTENDED with stone cage and SUMMIT soapstone claddings are shown in Table 3 below.



Table 3

SUMMIT OPEN with stone cage (L-length x W-width x H-height)	520 x 600 x 680 mm
SUMMIT EXTENDED with stone cage (L-length x W-width x H-height)	520 x 600 x 880 mm
SUMMIT soapstone cladding (L-length x W-width x H-height)	560 x 640 x 930 mm

Important! The 500mm cast iron flue pipe is not included in the SUMMIT EXTENDED models. It is recommended to purchase additionally.

The dimensions of the stove and elements may differ slightly from those shown in the table.

INSTALLATION INSTRUCTIONS

Remove the packaging and check that all elements of the stove are present. Visually check the condition of the stove parts. At least two people must carry out the installation of the stove.

The product must be installed as a complete set. SUMMIT OPEN elements see Figure 1.

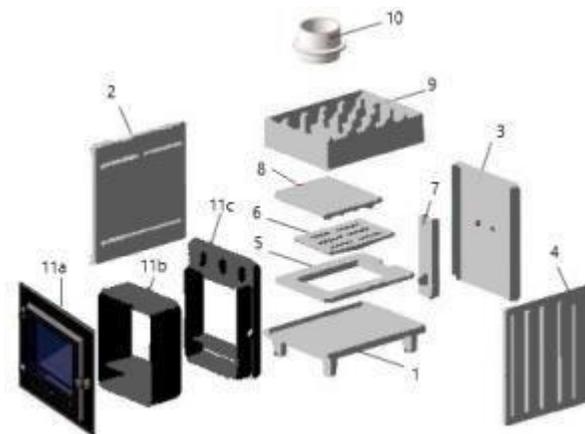


Figure 1.

1 - base; 2 - 4 - side walls; 5 - 6 - grilles; 7 - duct; 8 - flame barrier; 9 - stone tray; 10 – flue pipe; 11 – door panel with portal extension and front wall.

The SUMMIT EXTENDED model is supplied with the steam generator box and the steam door on the stone tray (see section Summit Extended assembly instructions)

Each model includes 1pc heat resistant sealant +1500 °C, 2pcs of M8 threaded rods with nuts and washers.

The appearance of the stove and elements may differ slightly from that shown in this manual.

SUMMIT OPEN ASSEMBLY INSTRUCTIONS



1. Place the door panel (11a) on a horizontal soft surface with the outer side down. Firstly, apply a heat-resistant sealant at the junctions between the door panel and the portal extension, and between the extensions (if more than 1 portal extension is installed). Install the required number of portal extensions (11b). Place the front wall (11c) on the extension(s) connected to the door panel having first applied heat-resistant sealant, secure with a M8 threaded rod. The M8 threaded rod shall be installed in the threaded holes in the front wall and in door panel. The door panel, fitted with the portal extension(s) and the front wall is installed at the end of the assembly of the stove (see point 4).



2. Place the stove base (1) on a flat surface. Apply a 3-4 mm thick layer of heat-resistant sealant on the base at the wall fixing points. Apply sealant to the vertical grooves in the back wall (3). Install first the side wall (2), then the back wall (3) and finally the remaining side wall (4) firmly to the base.



3. Place the grille's frame (5) on the lower ledges of the side walls and insert the grille (6) in the frame hole. Place the duct (7) into the groove of the grille frame so that it is pressed to the back wall (3) and is between the two inner retainers of the back wall. The ledges of the duct shall be at the bottom of the grille's frame. Then install the flame barrier (8) on the upper edges of the side walls with the flat surface facing upwards. The arrow on the flame barrier points in the direction of the door panel. Apply heat-resistant sealant to the lower grooves of the stone tray (9) around the entire perimeter. Support the side walls and place the stone tray on the 3 installed side walls.



4. Apply a heat-resistant sealant to the grooves in the front wall (11c). Place the front wall with the lower edge on the base of the stove, lift the front edge of the stone tray, press the front wall firmly against the edges of the side walls and lower the stone tray.

5. Apply heat-resistant sealant to the edges of the flue pipe (10) and place it on the stone tray.

To assemble the stove with the stone cage, place the stone cage around the stove with equal distances between the side walls.



SUMMIT cast-iron stove assembly guide.
Scan this QR code

SUMMIT EXTENDED ASSEMBLY INSTRUCTIONS



1. Assemble the stove according to the instructions above and install the steam generator box.
2. Insert the door frame into the steam generator box hole. Secure using the fasteners provided.

Important! The 500mm cast iron flue pipe is not included in the SUMMIT EXTENDED models. It is recommended to purchase additionally. Apply heat-resistant sealant around hole edges of the stone tray, then 500mm cast iron flue pipe should be installed in place of the stone tray hole and only after the steam generator box should be installed.

To assemble the stove with the stone cage, place the stone cage around the stove with equal distances between the side walls.

The appearance of the stove and elements may differ slightly from those shown in this manual.

SOAPSTONE CLADDING ASSEMBLY INSTRUCTIONS

The natural soapstone cladding ensures the most efficient operation of the stove and all modes in the sauna room. It allows you to adjust the intensity of the convection flow of hot air from maximum heating mode (with the door open on the stone cladding) to a complete stop of convection, with an extremely gentle thermal mode and high heat storage properties to maintain the temperature.

The product is assembled in steps, the order of the 3 levels is marked on the soap stone elements and corresponds to the sides shown in the figure (B - back, L - left, F - front, R - right). The first digit indicates the side and the second digit the level.



1. The side walls shall be installed starting from the 1st level from the portal extension hole clockwise. The assembly shall start with the installation of the hole supports B1 and the block part number L1, then in numerical order (F1, R1). The parts are connected to each other using the fasteners between the rows and blocks. All parts of the soapstone are marked to indicate the level and the direction.
2. The second level (B2, L2, F2, R2) shall be installed on the first level and then the third level.
3. The top level consists of four parts, two of which surround the flue pipe (U1, U2) and the other two parts the door (U3, U4). The door frame shall be fastened from the SUMMIT EXTENDED model with fasteners. Fasten using the fasteners provided.

After assembling the cladding, wipe the surface with a damp cloth to remove talc dust.

Important! The cladding stone is a soft rock - talcochlorite. Take care when unpacking and installing the cladding parts, protect against falls and scratches. If you find that the stone has been damaged during unpacking, please leave it in the packaging and contact the seller having picture of the defect.

It is recommended to install the soapstone cladding once, as reinstallation may damage parts of the soapstone. The manufacturer does not accept any liability for defects due to careless installation and reinstallation.

CONNECTING THE STOVE TO THE CHIMNEY

Only a certified technician is allowed to connect the stove to the chimney system. The dimensions of the flue pipe diameter are given in Table 1.

Follow the technical specifications of the chimney manufacturers when installing a chimney on a sauna stove. If a double-walled chimney with a large mass is installed, it must be reinforced with chimney fasteners to reduce the weight load on the sauna stove.

Due to the unique dual combustion chamber design, SUMMIT sauna stoves provide a high combustion traction, it is important to install a flue pipe damper in the chimney system to regulate the combustion flow and reduce the combustion loads on the stove. The damper will also be useful in reducing the consumption of firewood. Important! The cast iron damper is not included with SUMMIT models. It is recommended to purchase additionally.

USE OF SAUNA STONES

Only sauna stones can be used for the stove. SUMMIT sauna stoves with stone cage must be filled with sauna stones.

Sauna stoves intended for masonry or soap stone cladding should not be filled with sauna stones between the stone cladding and the side walls of the sauna stove. When installing the cladding with the SUMMIT EXTENDED model, the sauna stones are only placed in the closed steam generator box. When installing the cladding with the SUMMIT OPEN model, the sauna stones are only placed on the stone tray.

The sauna stones in the stone cage must be laid in 1-2 layers between the side walls of the stove and the stone cage. The stones must be of medium size to allow air circulation between them.

- The stones must be washed and clean before laying;
- The recommended diameter of the stones in the stone cage is 7-15 cm;
- The stones must be stacked close together between the outer surface of the stove and the stone cage;
- It is recommended that the bottom layer in the steam generator box be filled with smaller sauna stones 5-7 cm in diameter, the middle layer 7-10 cm, and the top layer 10-15 cm;
- The buyer is responsible for the use of ceramic stones in the sauna stove.

SAFE DISTANCES

The stove belongs to the category of appliances with a burning surface, the temperature of the cast iron surface depends on the intensity of combustion. The stone tray reaches a temperature of +450-550 °C, the side walls of the cast-iron stove up to +500 °C and the sauna stones in the stone cage up to 250 °C. It is not recommended to heat without the damper semi-closed as the cast iron side walls can reach +600 °C. The SUMMIT soapstone cladding reaches temperatures up to 120 °C.

1. **FLAMMABLE MATERIALS.** The minimum distance between the side surface of the stove (stone cage or soapstone cladding) and the surfaces of combustible materials shall be at least 500 mm and the minimum distance above the stove shall be 600 mm.
2. **NON-FLAMMABLE MATERIALS.** The minimum distance between the side surface of the stove (stone cage or soapstone cladding) and the surfaces of non-combustible materials shall be at least 150 mm and the minimum distance above the stove shall be 600 mm.

The sauna stove may only be installed in a wall made of a fire-resistant material. It is forbidden to install a sauna stove in a room that does not comply with fire safety requirements. Floors made of combustible materials must be protected from fire under the stove by metal plate. It is recommended to raise the stove on a platform 100-150mm high from the level of the steam floor, for comfort to place firewood into the front door from outside the sauna room.

SAUNA VENTILATION

The ventilation of the sauna must be as efficient as possible to ensure an adequate supply of oxygen and fresh air. It is advisable to direct fresh air into the sauna room from the hole under the stove. The hole under the stove shall have an adjustable damper which shall be opened at the start of use.

The exhaust ventilation system should be installed on the wall opposite the air supply under the stove at least 20-40 cm above the floor. It is recommended to install a damper in the upper part of the ventilation system.

SUMMIT AIR SAUNA ventilation system is ideally suited for use with SUMMIT sauna stoves.

RECOMMENDATIONS FOR THE USE OF THE SUMMIT SAUNA STOVE

- The first use of a sauna stove requires 2-4 hours of combustion outside or in the sauna, with safe distances between combustible surfaces with the chimney installed and the windows and doors opened and well ventilated. Before using the stove with SUMMIT soapstone cladding, the stove set must be reheated 2 times for 2 hours each with a 50% firewood load. This will remove any moisture that may be present in the stone. Before starting to use the stove for the first time at the installation site, make sure that the installation of the stove, the chimney system and the fire protection structures is carried out in strict compliance with the manufacturers' technical specifications.
- Make sure that air is supplied into the front door to prevent fumes from entering.
- The cast-iron stone tray is the most massive part of the stove and performs the main function of generating steam. The stone tray is heated by direct fire to high temperatures to produce high quality steam, storing a large amount of thermal energy which enables it to withstand direct water impact. The thermal energy and thermal conductivity of the stone tray allow it to maintain a high surface temperature and to generate almost unlimited amount of high-quality steam. In order to increase the heat-absorbing mass it is recommended to place special cast iron castings in 1 layer in the stone tray.
- Check the condition of the stones at least twice a year to make sure they are not crumbled and that no cracks have appeared. If defects are found, the damaged stones should be replaced. Stones made of serpentinite, jadeite, gabbro-diabase, raspberry quartzite are recommended.
- Once the stove has been set up, it takes some time for a stable, strong traction to build up. For the first hour, the stove should be heated intensively with a sufficiently fine firewood load of 3/4 of the capacity of the firebox. Repeat a second time with the same load capacity.
- The most suitable wood is dry birch. Do not use hardwoods such as oak, ash (can be mixed with softer wood). Conifers are not recommended.
- If there is an air supply under the stove from the outside it can be closed during heating. This will speed up the heating of the stove by at least two times.
- If you have an air exhaust ventilation system, close it during pre-heating.
- For the EXTENDED model, the door of the steam generator box shall be opened when the sauna is heated in order to accelerate the heating.
- The sauna room is ready to go when the temperature reaches 40-50 °C. We recommend adding a flue pipe damper to save on firewood, it is sufficient ¼ of the firebox load to keep the stove heated.
- Adding a few scoops of water will raise the temperature by 5-10 °C and the humidity by 20-30%. If you go into the steam room at 60 °C, you will not be able to raise the humidity significantly.
- When the required temperature and humidity are reached, the closed door of the SUMMIT EXTENDED steam generator box stops air convection and the desired temperature/humidity ratio is maintained.
- It is recommended to clean the flame barrier and the grill 2 times a year.

WARNING!

- The sauna stove can only be used when it is properly filled with stones;
- Store dry and dry well after use;
- Do not cover the stove - this creates a fire hazard;
- Only warm tap water can be used for steaming;
- A water scoop with a long handle up to 300ml is recommended for pouring on sauna stones;

- Burn dry wood, preferably birch, lime and black alder tree wood, avoid hardwoods such as oak and ash tree;
- Sauna room doors should always open outwards;
- Do not use the sauna for any purpose other than its intended use;
- Do not install more than one stove in the sauna room;
- Undiluted bath essences can ignite when poured directly on stones;
- It is forbidden to place salt briquettes in/on the stove and stone cage;
- Enjoy the sauna for as long as you like;
- Keep this information in a safe place.

INSTRUCTIONS FOR STORAGE AND TRANSPORTATION

Storage. The stove is made of cast iron which withstands large temperature fluctuations as well high humidity. However, in order to ensure the best quality of the final product, sellers of sauna stoves are recommended to store it in room conditions (temperature: 5 - 25 °C; and relative humidity: 20-30%). The manufacturer also recommends wrapping the stoves and individual parts in thick cardboard boxes to prevent scratches or other damage during loading and shipping to customers.

Transportation. The main requirement for the transport of sauna stoves is that the end product reaches the customer undamaged. Therefore, it is recommended for sellers to pack the stove on pallet and it is preferable to use "Euro pallet" with supported sides. Parts of the stove are fragile to strong impacts, so the pallets must be stable with supported sides to ensure safe transport. Transport temperature and humidity conditions are analogous to storage conditions.

The product's packaging materials are manufactured in compliance with EU legislation. Packaging materials are not recommended to be disposed with household waste, but to be delivered to local authority packaging material collection points.

INFORMATION ABOUT RESIDUAL RISK

The stove is completely safe to use provided that the person using sauna stove has at least minimal skills in safe operation of solid fuel stoves.

While using the sauna stove all its surfaces become hot during its combustion phase. It is strictly forbidden to touch these surfaces as this can cause serious burns. Never leave a heated stove unattended and do not allow children to operate the stove. Sauna stoves are recommended to be used with chimney protection thus further reducing the risk of burns. It is strictly forbidden to use the stove under the influence of alcohol or other psychotropic substances.

HOW TO ACT IN CASE OF AN ACCIDENT

In all cases of accidents call the emergency number 112.

DISPOSAL OF THE PRODUCT

Stoves are designed for long-term use, but have a finite service time. According to EU legislation sauna stoves that are no longer in use must be properly disposed at the end of their service life. It is strictly forbidden to dispose stoves together with household waste!

After the end of the product's service life, it must be disposed in accordance with local environmental requirements. For more detailed information, please contact your national Environmental Protection Agency or recycling centre.

WARRANTY

The buyer must read the user manual and follow the instructions given. Damage to the product resulting from failure to follow the instructions and requirements will void the warranty.

If the product is defective, the buyer has the right to have the product repaired or replaced. Claims must be made no later than 5 years after the purchase of the product for cast iron parts and 2 years for steel parts. A receipt of purchase is required for warranty claims. The manufacturer's warranty for commercial use is 1 year from the date of sale for cast iron parts only.

The purchase receipt is the guarantee document.

Terms of guarantee:

- the warranty only applies to SUMMIT cast iron and steel parts that have been used in accordance with the instructions;
- the warranty does not cover the grill, grill frame and fire barrier, which may be defective due to misuse;
- the warranty does not apply to the glass, the joints (e.g., in sashes, handles) or the wooden handle.
- the guarantee does not apply to SUMMIT soapstone cladding.
- the manufacturer has the right to exclude warranty obligations if a non-original SUMMIT soapstone cladding is used.
- changes caused by natural wear and tear (corrosion, scratches) are not covered.
- the warranty does not apply if:
 - the damage or defect was caused by transport or other acts beyond the manufacturer's control;
 - the product has been damaged due to the buyer's negligence or overloading;
 - incorrect installation;
 - the product has been modified in any way;
 - the warranty period has expired;
 - lost purchase receipt.

For the latest updates, please visit our website www.summitstoves.com