FINSTEAM

BOTNIA81

TECHNICAL DATASHEET

FinSteam gas sauna heaters combine authentic Finnish sauna tradition with patented gas heating technology designed for safe, reliable, and electricity-free operation. Engineered specifically for demanding sauna environments, FinSteam heaters deliver efficient combustion, consistent heat, and advanced safety performance.

EU Type-Examination Certificate

Built to meet the highest EU safety and performance standards. FinSteam gas heaters hold an EU Type-Examination Certificate in accordance with the EU Gas Appliance Regulation (EU/2016/426)

CE - Marked

FinSteam is the only CE-marked, electricity-free and chimney-free gas sauna heater available on the European market.



Patented Technology



At the heart of every FinSteam gas sauna heater is our patented burner technology, developed specifically for safe, reliable and efficient sauna use. The patented system combines flame monitoring, oxygen depletion sensing and optimized combustion, improving ignition reliability, combustion quality and overall safety. FinSteam's technology provides a strong foundation for both current and future gas heating solutions.

ODS Safety System

FinSteam's ODS safety system uses a specially designed pilot flame and thermocouple. If the oxygen level becomes too low, the pilot flame changes and no longer heats the thermocouple sufficiently, causing the safety valve to automatically shut off the gas supply.

Made in Europe

European manufacturing supports component traceability, consistent quality control and reliable spare parts availability. FinSteam is a Finnish gas sauna heater created through Nordic expertise and European collaboration.

Appliance Versions:

- **$I_3B/P(30)$- 30mbar**
  Butane, propane, and their mixtures, Gas pressure 30 mbar
- **$I_3P(37)$- 37mbar**
  Propane, Gas pressure 37 mbar

BOTNIA81 Models:

BOTNIA 81 O
BOTNIA 81 R11
BOTNIA 81 R14
BOTNIA 81 R11S
BOTNIA 81 R14S

Before purchasing a FinSteam BOTNIA81, verify the local LPG regulations, gas category and operating pressure in the country of use. Choose the heater version that matches the approved local gas type and pressure, such as I3B/P30 (30 mbar) or I3P37 (37 mbar).

Have questions about installation or technical requirements?

Contact us today!

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Technical details

FinSteam BOTNIA81

Power	8.1 kW
Gas consumption - Full Power	0.58 - 0.60kg/h
Heating Time	15-40 min.
Sauna room size min - max m^3	
U-value > 2.5 W/m^2K	4 - 10 m^3
U-value = 1.0 - 2.5 W/m^2K	4 - 12 m^3
U-value < 1.0 W/m^2K	4 - 14 m^3
Stone size	Ø 5 - 10 cm
Stone Amount - ORBIS O	13 - 18 kg
Stone Amount - ORBIS R11	20 - 25 kg
Stone Amount - ORBIS R14	25 - 30 kg
Safety distance to combustible materials	
Sides*	150mm
Ceiling	1000 mm
Sides, to non-combustible materials	50 mm
Ventilation Requirements	
Adjustable Air Inlet Opening	min. 350 cm^2
Adjustable Air Inlet Opening - with outdoor grille	min. 450 cm^2
Adjustable Exhaust Air Opening	min. 250 cm^2
Adjustable Exhaust Air Opening - with outdoor grille	min. 350 cm^2

*For wooden or other combustible walls, the side and rear clearances may be reduced from 150 mm to 50 mm using a non-combustible protective cover. When using the FinSteam NJORD Heat Shield, maintain at least 50 mm between the wall-facing outer surface of the shield and the combustible wall behind it.

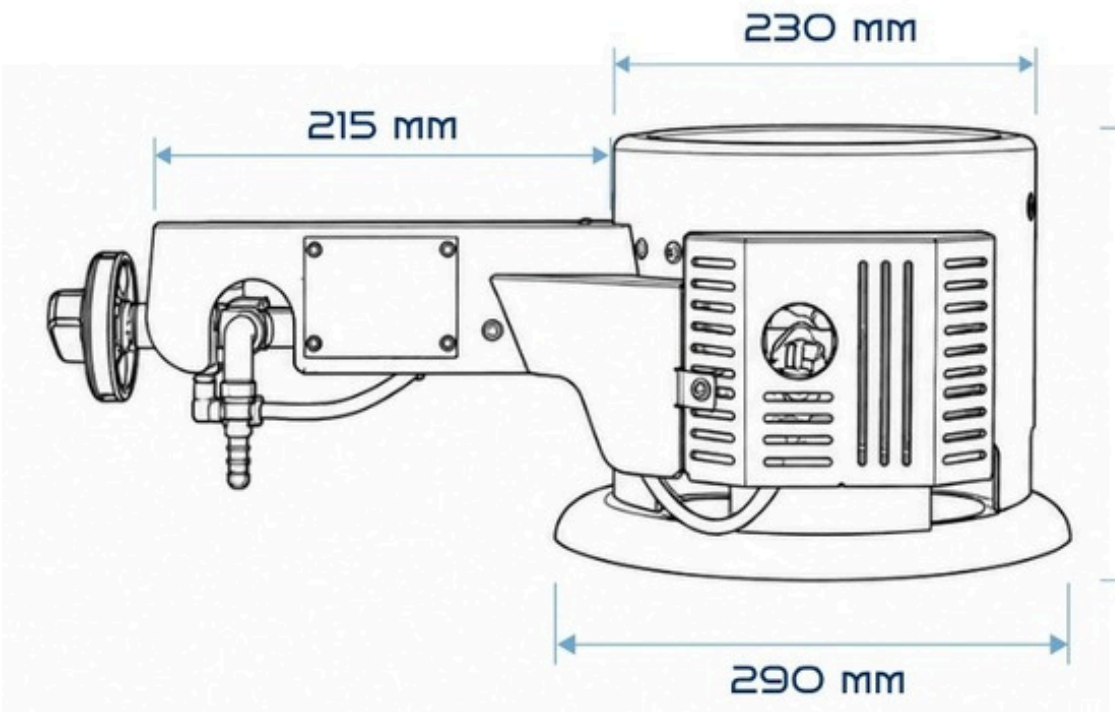
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Features & Dimensions

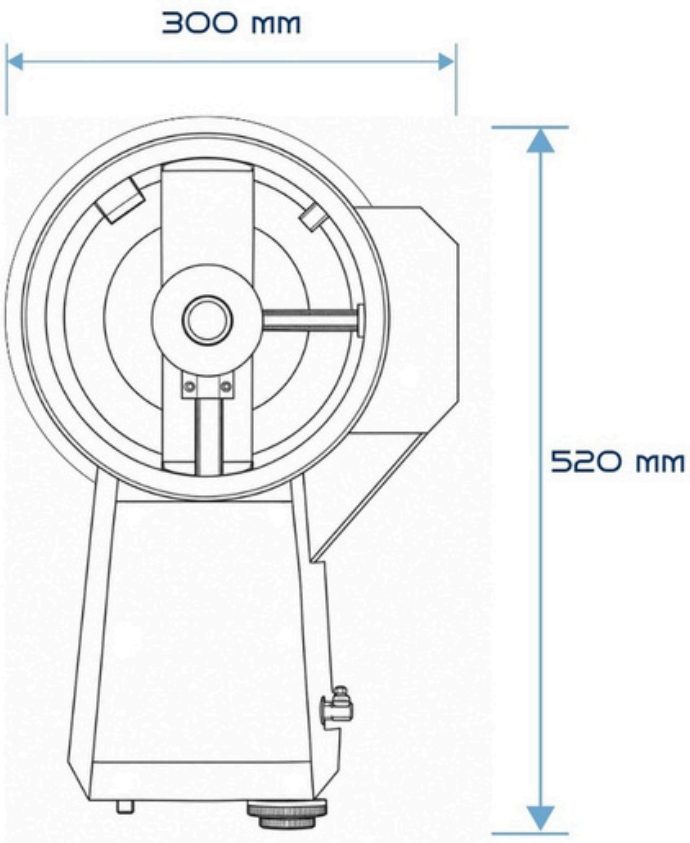
FinSteam BOTNIA81

Main material	
High-Temperature Parts	Heat Resistant Stainless Steel EN 1.4845 (AISI 310S) - 1100°C
Other Parts	Stainless Steel EN 1.4301 (AISI 304) - 850°C
Color	Stainless Steel
Installation location	Floor / Ground
Safety system	ODS
Heater Size: H x W x D	620 x 300 x 520 mm
Burner Unit: H x W x D	190 x 300 x 520 mm
Burner Unit Weight	5.1 kg
Flue Unit Size: H x Ø	460 mm x 84 mm
Flue Unit Top Ø	R11/R14 - 145 mm / O - 165 mm
Flue Unit Weight	R11/R14 - 3.9 kg / O - 4.1 kg
Total heater weight (without sauna stones)	
FinSteam BOTNIA81 O	10.2 kg
FinSteam BOTNIA81 R11	11.6 kg
FinSteam BOTNIA81 R11S	14.5 kg
FinSteam BOTNIA81 R14	12.2 kg
FinSteam BOTNIA81 R14S	15.1 kg

Dimensions & Technical Drawings







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FinSteam Accessories

FinSteam HALO – Safety rail

Compatible with the FinSteam ORBIS R – stone cages.

- Diameter: 470mm – Weight: 1.1 kg
- Crafted from Alder wood

SKU: FS-ACC-HALO





FinSteam NJORD – Heat Shield

Compatible with the FinSteam ORBIS R – stone cages.

- Size: 550 x 420 mm – Weight: 1.8 kg
- Manufactured from stainless steel

SKU: FS-ACC-NJORD





FinSteam VELLA – Water Tank

Compatible with the BOTNIA81 and AURORA81 models

- Size: 360 x 161 mm – Weight: 4.0 kg
- Water Capacity: 4.9 L
- Manufactured from stainless steel

SKU: FS-ACC-VELLA





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FinSteam BOTNIA81

SKU	Product name
FS-B81-O-P30	FinSteam BOTNIA81 O - I3B/P30
FS-B81-O-P37	FinSteam BOTNIA81 O - I3P37
FS-B81-R11-P30	FinSteam BOTNIA81 R11 - I3B/P30
FS-B81-R11-P37	FinSteam BOTNIA81 R11 - I3P37
FS-B81-R14-P30	FinSteam BOTNIA81 R14 - I3B/P30
FS-B81-R14-P37	FinSteam BOTNIA81 R14 - I3P37
FS-B81-R11S-P30	FinSteam BOTNIA81 R11S - I3B/P30
FS-B81-R11S-P37	FinSteam BOTNIA81 R11S - I3P37
FS-B81-R14S-P30	FinSteam BOTNIA81 R14S - I3B/P30
FS-B81-R14S-P37	FinSteam BOTNIA81 R14S - I3P37
FS-ACC-NJORD	FinSteam NJORD - Heat Shield
FS-ACC-HALO	FinSteam HALO - Safety Rail
FS-ACC-VELLA	FinSteam VELLA - Water Tank



BOTNIA81 R14S



BOTNIA81 R14



BOTNIA81 R11



BOTNIA81 O

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