



BOTNIA81

TECHNICAL DATASHEET

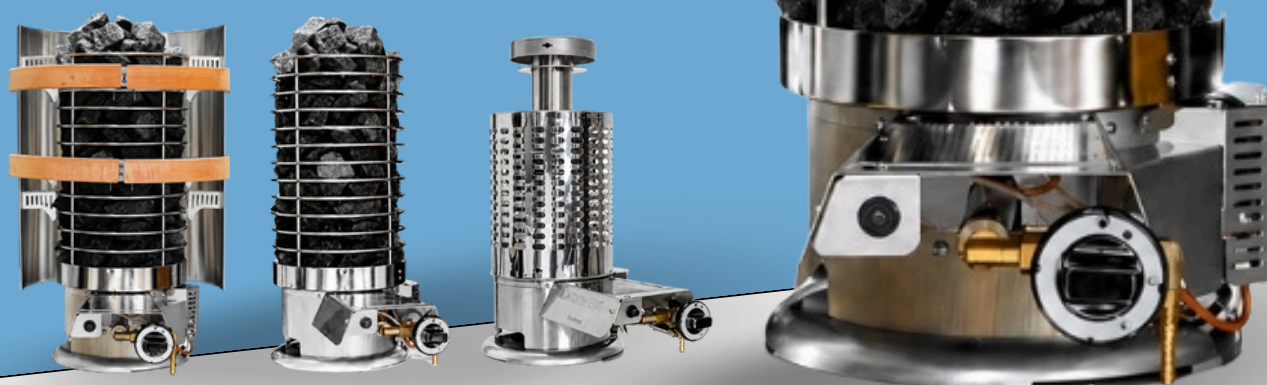
FinSteam gas sauna heaters combine authentic Finnish sauna tradition with patented gas heating technology designed for safe, reliable, and electricity-free operation. Engineered specifically for demanding sauna environments, FinSteam heaters deliver efficient combustion, consistent heat, and advanced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



I3B/P30 - 30mbar

Butane, propane, and their mixtures,
Gas pressure 30 mbar



I3P37 - 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!



+358 40 737 31 27



toni@finsteam.fi



www.finsteam.fi

TECHNICAL DETAILS

FINSTEAM BOTNIA81

Power	8.1 kW
Gas consumption - Full Power	0.59 kg/h
Heating Time	15-25 min.
Sauna room size min - max m ³	
U-value > 2.0 W/m ² K	4 - 10 m ³
U-value = 0.8 - 2.0 W/m ² K	4 - 12 m ³
U-value < 0.7 W/m ² K	4 - 14 m ³
Stone size	Ø 5 - 10 cm
Stone Amount - ORBIS O	15 - 18 kg
Stone Amount - ORBIS R11	22 - 25 kg
Stone Amount - ORBIS R14	30 - 33 kg
Safety distance to combustible materials	
Sides*	200mm
Ceiling	1000 mm
Sides, to non-combustible materials	50 mm
Ventilation Requirements	
Adjustable fresh air inlet opening	min. 350 cm ²
Adjustable Exhaust Air Outlet Opening	min. 250 cm ²

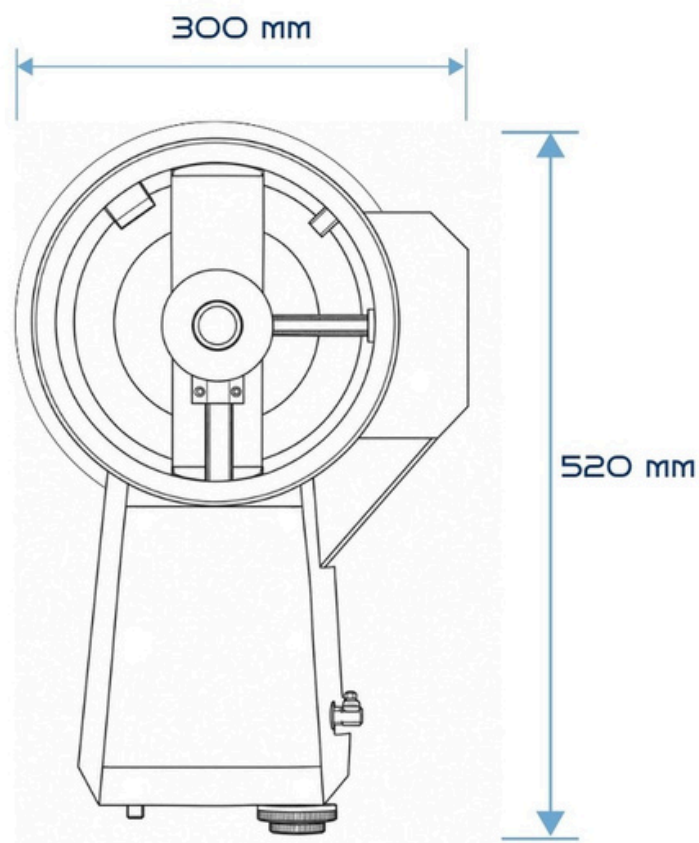
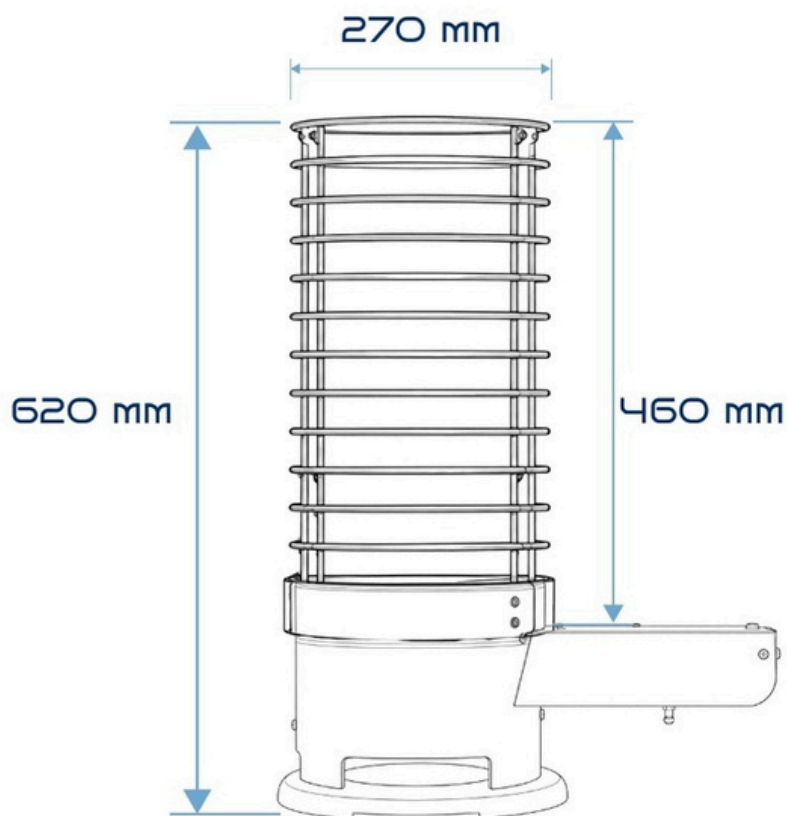
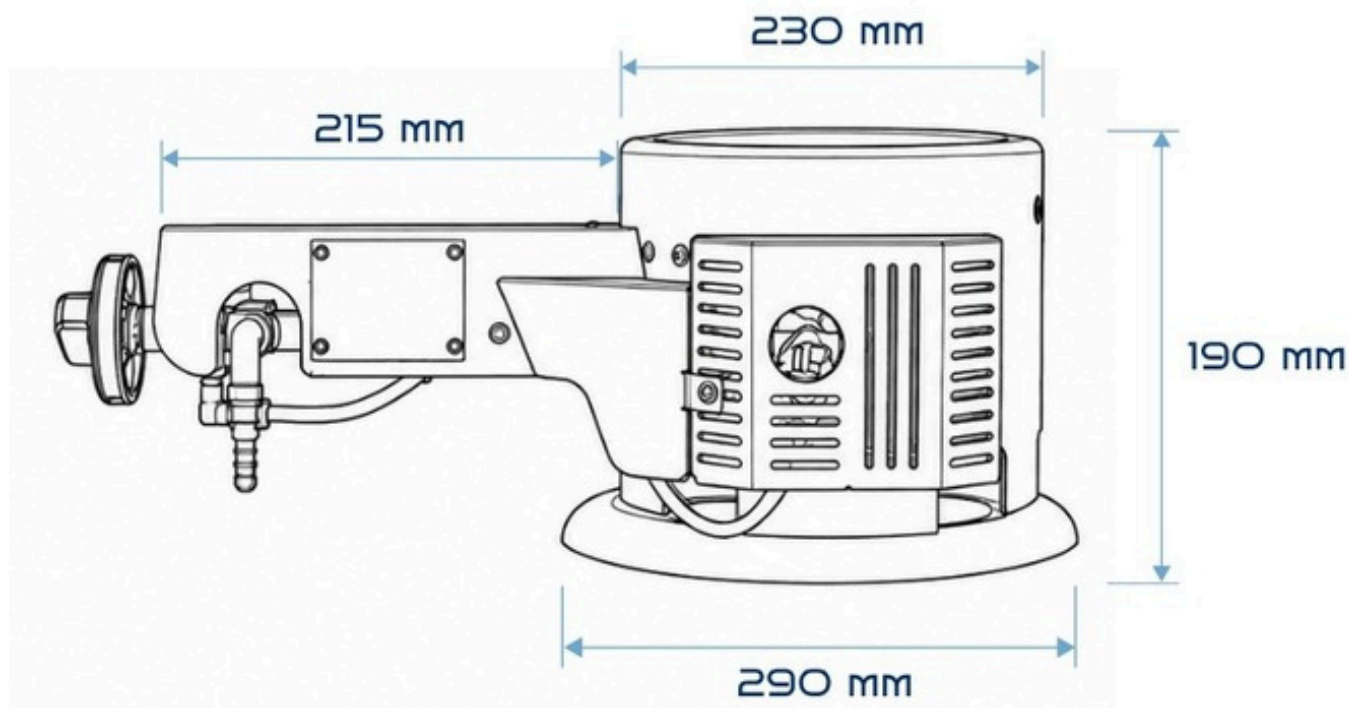
*The minimum safety distance to the sides and rear of the heater may be reduced from 200 mm to 100 mm by using a single non-combustible protective shield. When a double non-combustible protective shield is used, the minimum safety distance may be reduced to 50 mm. When using the FinSteam NJORD Heat Shield, the minimum safety distance between the heat shield and the combustible material behind it is 50 mm.

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
Net Weight / Gross Weight (with package)	
FinSteam BOTNIA81 O	10.2 kg / 21.4 kg
FinSteam BOTNIA81 R11	11.6 kg / 22.8 kg
FinSteam BOTNIA81 R11S	14.5 kg / 25.7 kg
FinSteam BOTNIA81 R14	12.2 kg / 23.4 kg
FinSteam BOTNIA81 R14S	15.1 kg / 26.3 kg
Package Size: H x W x D	650 x 360 x 560 mm

DIMENSIONS & TECHNICAL DRAWINGS



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



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