hoxter

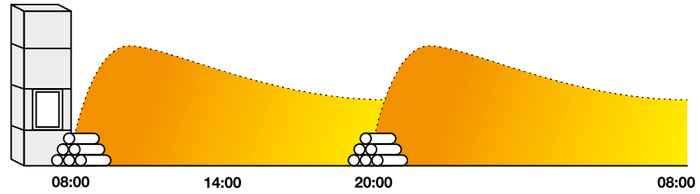
BLOX

Accumulation stove

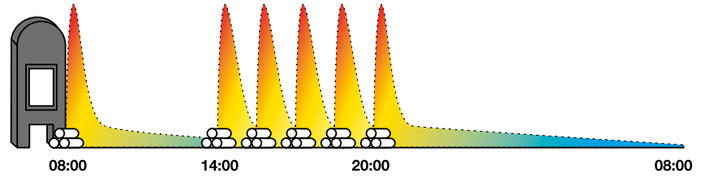
Accumulation stove

The increased quality of building technology requires heating technology to change along with it. Today‘s homes often have a well-insulated building envelope and require a different approach. Unlike massive heaters that quickly burn out and require constant refuelling, the BLOX compact accumulation stove comes with a different philosophy. The heat output is limited and is designed for better heat accumulation with fewer fuelling intervals. The basic modular stove body is made of exposed concrete with a clear view of the fire, using the reserve of the accumulation mass while maintaining a compact size. The stove stays warm for a long time after the fire has gone out. The design also prioritises quick assembly and quality of detail. Design and functionality come together in a symbiosis of simple form and high-quality stove craftsmanship.

Refuelling intervals and heat discharge



BLOX accumulation stove



Conventional wood-burning stove

A robust design in a compact size

Thermal shielding of the upper part of the concrete casing

Selectable venting to the rear or upwards

Internal thermal shielding of the rear walls of the concrete casing

Double-walled accumulation rings

Concrete casing 40 mm thick

Robust frame 5 mm

Fireclay hearth 40 mm thick

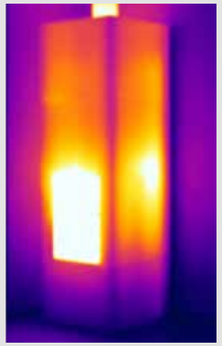
Door 32 × 44 cm with single or double glazing

Selectable air inlet to the rear or downwards

Heat accumulation in a closed casing

BLOX means no heat convection, only healthy heat radiation. The stove casing is completely closed with no air convection holes, resulting in the longest possible heat accumulation and the lowest possible hourly heat output. The accumulation process is powered by the double-walled accumulation rings in direct contact with the flue gas. At the beginning of the heating process, the heat enters the room through the glass door. This is then replaced by radiant heat from the entire surface of the stove housing.

1 hour after heating
Average surface temperature 29 °C



3 hours after heating
Average surface temperature 88 °C

12 hours after heating
Average surface temperature 45 °C

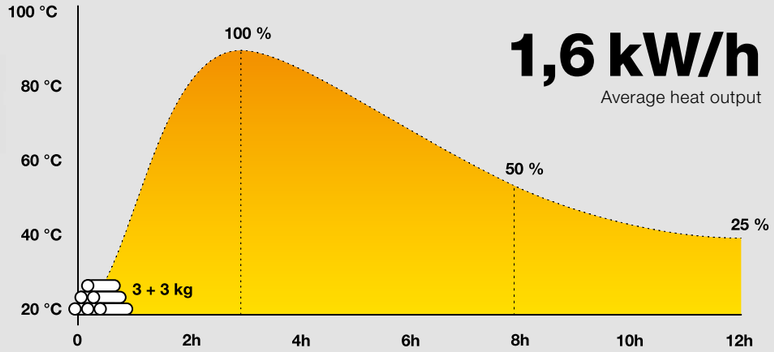
Accumulation ring

· Spiral flue gas duct
· Bulk density 2,700 kg/m³
· Production firing temperature 1,100 °C
· Connection via sealing rope with tongue/groove system

425 kg
Total weight

12 Std.
Heat output duration after heating

1,6 kW/h
Average heat output



Change in average surface temperature relative to room temperature

Design flexibility

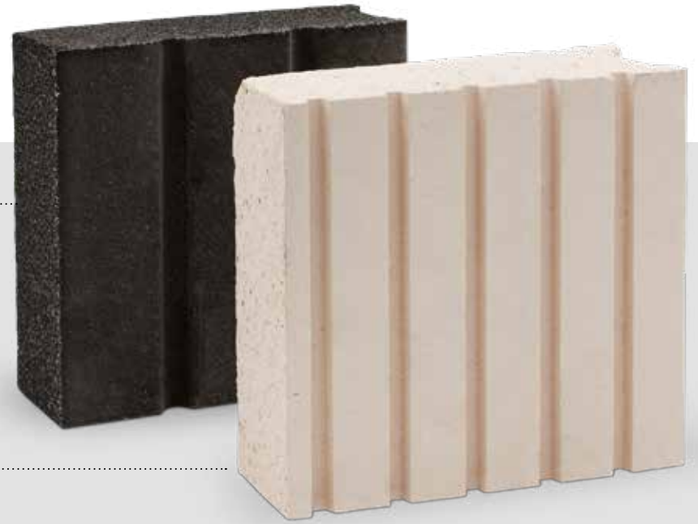
Square or round?

The BLOX accumulation stove is available in two shapes, square or round. Both variants have the same internal heating technology and identical technical parameters.

Exposed concrete

The surface of the exposed concrete is typically unevenly coloured and may contain surface hairline cracks. The concrete casing can be painted or plastered, but only using materials that we recommend.

5 mm
Frame thickness



Handles and air controls

Small details such as the handles and air controls are part of your stove's appearance. Two designs combine stainless steel and black in two finishes. The black version is made by applying Teflon to the stainless steel for high durability

A stable door profile

The door profile has a wall thickness of 2.5 mm and is made of boiler steel to guarantee permanent stability at high temperatures. The tapered shape of the groove seals to the body to prevent spillage. Single or double glazed doors are available with hinges on the right or left.

Firebox lining

You can select either the standard light-coloured firebox lining or a dark lining. Both linings are fired at 1,100 °C and the dark version is made of a full-colour blend.

Quick installation

During the design process, we prioritised the most important elements: fast installation, connection variability, and a guaranteed long-term service life for the entire stove. This is attested to by the combination of materials used and the modular system of the entire product.

3–5 hours
Installation time

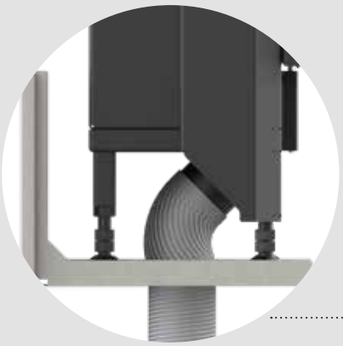
6 pcs
Concrete parts

Surface repair kit
The accumulation stove is delivered with a concrete surface repair filler kit in the event of minor damage during handling and installation.

Variable connection

Smoke outlet
The flue gas outlet from the stove can be directed to the rear (Ø130 mm) or to the top (Ø130 mm/Ø150 mm). The unused venting duct serves as an inspection opening.

Air inlet
The air required for combustion in the firebox can be connected from the rear (Ø100 mm) or from the bottom (Ø100 mm). The split bottom of the housing allows convenient access for connecting the aluminium hose.



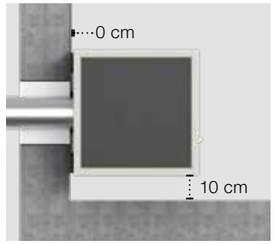
Automatic combustion control
The best way to ensure clean and proper combustion and safe operation. The BLOX accumulation stove is compatible with automatic HOS control, with built-in inputs for the door sensor and the flue gas temperature sensor. The air damper and control unit must be located outside the enclosed BLOX housing.

For wooden and passive homes

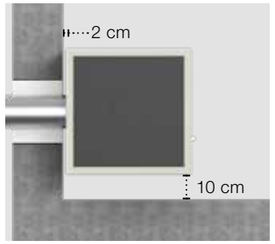
Our primary objective was to create an attractive, compact heat source for houses and rooms with low heat loss. For the popular wooden house constructions, we have designed a system of external and internal thermal shielding for our accumulation stoves to achieve minimum spacing from combustible walls.

Minimum spacing for walls made of non-combustible materials

· solid brick, concrete, aerated concrete



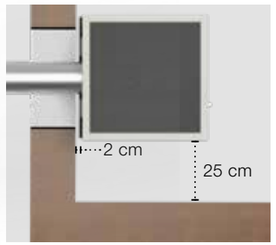
With external shielding plate (accessory)



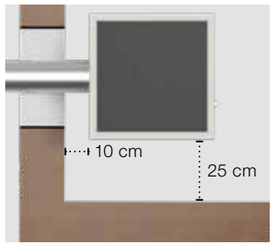
Without external shielding sheet

Minimum spacing for walls made of combustible materials

· wooden structures, load-bearing walls up to 10 cm thick



With external shielding plate (accessory)



Without external shielding sheet

Technical data

	Values according to EN 13240	Accumulation operation measured values
Energy label	A+	
Operating data		
Nominal power	12 kW	-
Efficiency	> 80 %	> 80 %
Refuelling turnover	3,3 kg/h	6 kg (3 + 3kg)
Average heat output	-	1,6 kW
Heat output time[1]	-	12 hours
Mass flow of flue gases	11 g/s	11 g/s
Required chimney draft	12 Pa	12 Pa
General technical information		
Total weight	425 kg	
Overall dimensions (width x depth x height)	500 × 500 × 1597 mm	
Dimensions of the firebox (width x depth)	250 × 210 mm	
Diameter of the combustion air inlet	backwards/downwards Ø 100 mm	
Diameter of the flue connection	backwards/upwards Ø130 mm (optionally upwards Ø150 mm)	

1) Time from heating to 25 % of the maximum average surface temperature relative to the room temperature

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