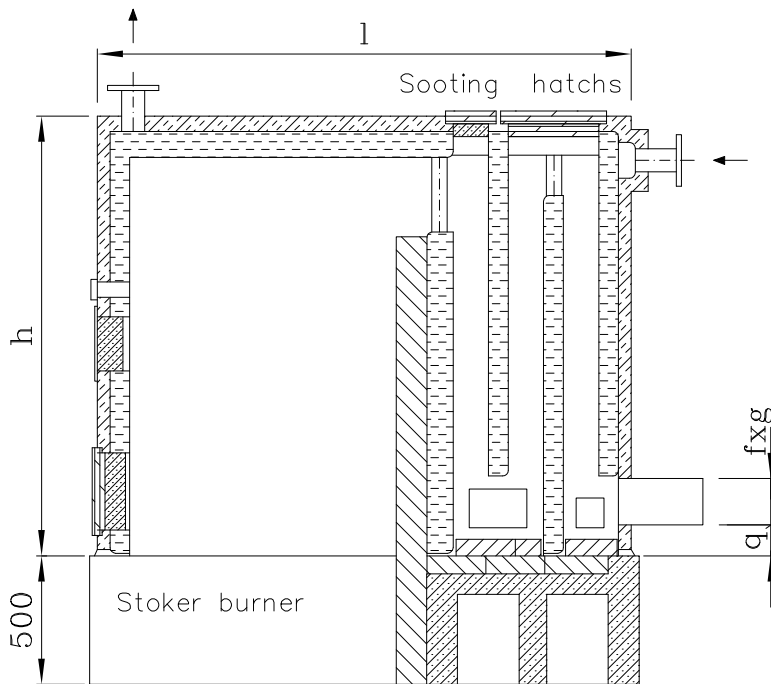


Sawdust Chips Pellets Coal¹⁾ Sod peat¹⁾ Chipboard waste²⁾



- LAKA PS-boiler has a large combustion chamber which is designed for burning solid fuels (chips, pellets, sawdust, cutter chips, grinding dust and sod peat).
 - In this brochure is standard type LAKA PS-boiler, which is suitable to heating with underfeed stokers or with so called moving grate.
 - For stoker- and pellet-burners we have a special version of LAKA PS-boiler. This type is equipped with joint for burner and steel base with joint for ash screw and ash hatches.
 - Fuel oil can be used as auxiliary fuel. The burner door is in front, above the furnace door. When heating with solid fuel, the oil burner is turned aside.
 - LAKA PS-boiler can be installed to operate with chimney ventilation because the flue gas resistance of the boiler is low.
 - LAKA PS -boiler can also be delivered with flue gas equipment (flue gas cleaner, flue gas fan and automation to optimise combustion chambers pressure). The flue gas cleaning unit can also be delivered separately e.g. for installing outdoors.
 - Fly ash which would reduce the efficiency doesn't collected on the fire surfaces of the convection part, because they are vertical. The fly ash sinks in the ash pit under the convection part.
 - The sooting is done by brushing from above the boiler, the ash is removed from the side.
 - The furnace door is normally in front of the boiler but it can be placed on the side too. The combustion chamber can be supplied with extra doors when necessary.
 - The room needed for maintenance is on top of the boiler at least 1500 mm, preferably 1,9 m, on the door side the width of the boiler. Elsewhere the minimum distance from structures is 500 mm.
 - The boiler is installed on concrete or steel base on which the grate of stoker is normally installed.
 - The boiler is normally delivered without the base and the bottom is open. The boiler will also be delivered with the inline steel base.
 - The boiler delivery includes the cleaning tools and normative the drawing of the base to be made under the boiler. The bricks and other equipment needed for masonry inside the boiler are available for extra charge.
- 1) Sod peat and coal can be burned with suitable burning device e.g. mechanical diagonal grate or step grate. For these devices the boiler is made with special measures.
 - 2) LAKA PS boiler is available with special furnace for burning e.g. shipboard or other wood products that form toxic gases.

Output	b	h	l	q	f	g	Water volume	Weight
kW	mm						dm ³	kg
145	1000	1180	1310	875	160	450	395	1200
160	1000	1250	1400	950	160	450	410	1250
180	1000	1250	1770	120	250	680	540	1300
210	1100	1300	1800	120	250	680	600	1350
250	1100	1300	1920	120	250	680	650	1400
290	1100	1400	1920	120	250	680	700	1500
325	1150	1500	2000	120	250	680	850	1750
360	1150	1600	2000	120	250	680	880	1900
420	1150	1600	2200	120	250	680	950	2100
460	1150	1600	2350	120	250	680	990	2230
520	1250	1750	2300	120	250	680	1130	2500
580	1250	1820	2450	120	250	680	1250	3100
630	1380	1800	2450	120	250	680	1280	3800
700	1380	1870	2450	120	250	680	1350	4000
840	1500	1900	2700	120	250	880	1630	4300
1000	1500	2100	2800	120	250	880	1850	4600
1200	1600	2300	2825	120	280	880	2350	5000
1400	1700	2380	3150	120	280	1050	2500	5600
1600	1980	2400	3200	120	280	1050	2700	6100
1800	1980	2560	3200	120	280	1050	2850	6900
2000	1980	2860	3200	120	280	1050	3050	7300
2200	2100	3000	3200	120	280	1050	3300	7500
2500	2250	2600	4050	120	420	1050	3900	9300
3000	2250	3000	4050	120	420	1050	4300	10000
4000	3000	3500	5000	120	500	1100	5000	13000