

Podvis term



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LIQUID AND GAS FUELED BOILERS GP

23–349kW

Liquid and gas fuelled boilers GP are intended to be used for central heating systems requiring a temperature of 70/90°C. Fuel oil, natural gas, or propane butane burners can be installed as a customer option. The body of the boiler is of a steel welded construction with reversible fire and smoke tubes. Entry and the boiler itself are well insulated so that the heat loss is minimal and the burner operation is regulated automatically. GP boilers are of a modern construction and with high level of energy efficiency.



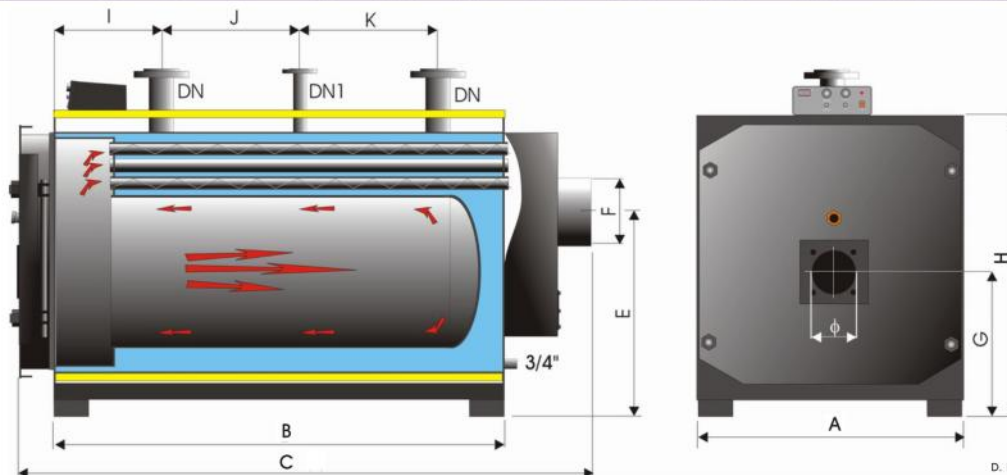
boiler type	Gp25	Gp35	Gp45	Gp60	Gp80	Gp100	Gp130	Gp150	Gp175	Gp200	Gp230	Gp300	Gp350
power (kW)	23	35	46	58	81	105	130	151	174	198	233	291	349
length B (mm)	644	644	644	644	717	717	820	820	820	820	950	950	950
width A (mm)	790	790	790	790	985	985	1070	1070	1070	1070	1205	1205	1205
height H (mm)	402	502	602	702	752	852	962	1062	1162	1312	1060	1310	1560
furnance fl. Φ (mm)	133	133	133	133	155	155	155	192	192	192	230	230	270
burner Φ (mm)	108	108	108	108	128	128	140	140	140	140	168	168	168
connexion (")	1"1/4	1"1/4	1"1/4	1"1/4	1"1/2	1"1/2	1"1/2	2"	2"	2"	2"1/2	2"1/2	3"
discharge (")	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
t. pressure (bar)	4	4	4	4	4	4	4	4	4	4	4	4	4
w. pressure (bar)	3	3	3	3	3	3	3	3	3	3	3	3	3
water content (l)	48	61	72	84	125	139	218	238	258	278	369	454	532
weight (kg)	124	135	152	164	244	266	359	387	418	447	524	604	684

LIQUID AND GAS FUEL BOILERS GU 200-2000kW

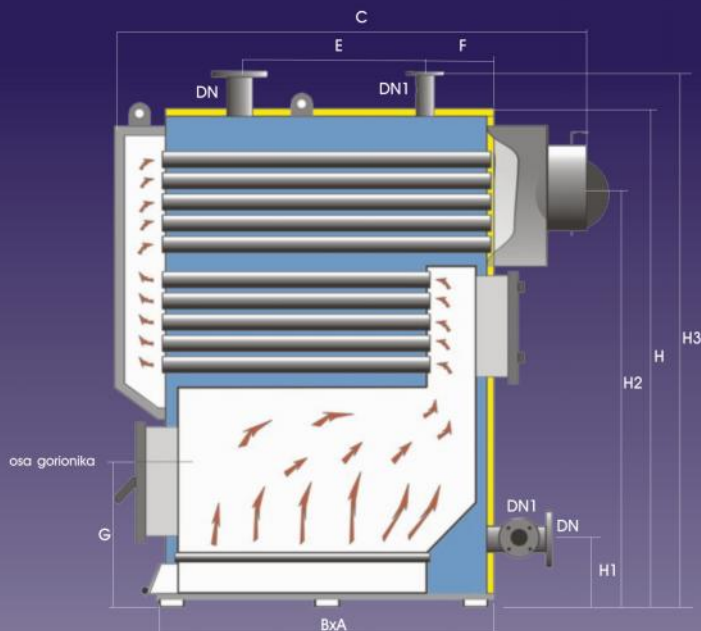


The **GU** boilers are intended to be used for all types of hot water central heating systems with a temperature range of 70/90°C. The body of the boiler is of steel welded construction. Fire tube is reversible so two passes and total combustion is achieved. The third pass is in the nest of tubes arranged around the fire tube. Inside the smoke tubes there are turbulators which provide better heat exchange. As a result of the design of the interior configuration of the boiler, a high level of efficiency can be achieved in combustion. Construction of the entry and furnace flue enables effortless access to the interior for cleaning and maintenance. The boiler is well thermo-insulated and equipped with automatic functions for total control of the burner operation.

boiler type GU	200	240	300	350	400	500	600	750	1000	1250	1500	1750	2000
power (kW)	200	240	300	350	400	500	600	750	1000	1250	1500	1750	2000
length B(mm)	996	1246	1270	1497	1747	1745	1841	1841	2340	1895	2215	2550	2870
width A(mm)	900	900	1000	1000	1000	1080	1150	1250	1250	1450	1450	1600	1600
tot. l. C(mm)	1451	1701	1757	2007	2257	2255	2360	2410	2910	2365	2835	2980	3300
height H(mm)	990	990	1125	1125	1125	1260	1280	1375	1375	1550	1550	1680	1680
E (mm)	614	614	680	680	680	726	790	915	915	1062	1062	1062	1062
F (mm)	230	230	280	280	280	330	330	330	350X550	340X650	400X650	400X750	460X750
G (mm)	450	450	545	545	545	640	570	620	620	670	670	795	795
I (mm)	330	330	330	330	330	330	340	340	340	500	500	530	530
J (mm)	255	380	375	500	630	625	345	345	345	500	500	690	690
K (mm)	255	380	385	510	630	630	962	971	1470	856	1176	1100	1420
Φ (mm)	150	150	170	170	170	180	180	180	180	205	205	205	205
DN/NP6	65	65	80	80	80	100	100	125	125	150	150	200	200
DN1/NP16	40	40	50	50	50	65	65	65	65	80	80	80	80
furn. fl. (Pa)	340	420	340	330	400	380	440	500	580	420	550	600	720
w. pressure	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
wat. cont. (l)	230	280	330	390	450	510	580	865	1108	1149	1338	1420	1560
weight (kg)	615	680	880	945	1090	1215	1355	1560	1830	2090	2320	2900	3130



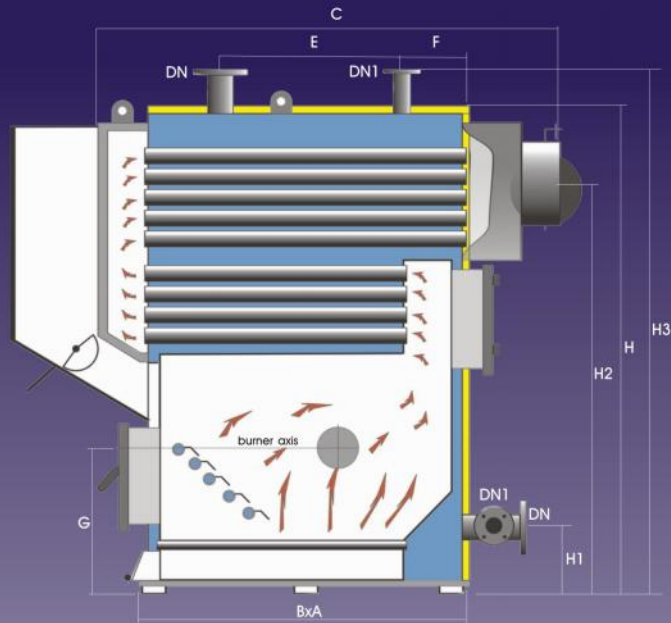
COMBINATION BOILERS K 200-1800kW



boiler type	K200	K250	K300	K350	K400	K450	K550	K750	K1000	K1250	K1500	K1800
power (kW)	200	250	300	350	400	450	550	750	1000	1250	1500	1800
length B (mm)	1140	1140	1240	1344	1464	1548	1548	1900	2000	2600	2700	2900
width A (mm)	1000	1000	1000	1200	1200	1480	1480	1480	1650	1650	1700	1750
total width C (mm)	1583	1583	1683	1845	1963	2113	2113	2500	2700	3350	3480	3700
height H (mm)	1873	1973	1973	2070	2070	2368	2588	2500	2760	2810	3250	3200
H1 (mm)	250	250	250	250	250	358	358	358	358	358	320	320
H2 (mm)	1645	1745	1745	1810	1810	2098	2278	2260	2450	2500	2600	2700
total height H3 (mm)	1933	2033	2033	2152	2152	2450	2670	2600	2860	2910	3250	3450
E (mm)	470	470	470	570	570	766	766	1000	1100	1500	1000	1000
F (mm)	208	208	208	208	208	208	208	208	208	208	500	600
G (mm)	517	517	517	575	575	735	735	800	800	800	800	850
furnace flue Φ (mm)	326	326	326	326	326	378	428	390x540	400x600	440x640	500x700	500x700
DN/NP6	80	80	80	80	80	100	100	125	125	150	150	150
DN1/NP16	40	40	40	40	40	40	40	65	65	80	80	80
minimal draught (Pa)	43	48	52	56	59	61	65	90	115	130	160	200
water content (l)	710	720	750	960	1120	1240	1520	2170	2910	3730	4300	4650
weight (kg)	1650	1700	2150	2500	2750	2930	3220	3710	4617	5644	6680	7850

Special solid fuel K hot water boilers are used for central heating in residential, industrial and other facilities and can be applied to all kinds of hot water heating systems with temperature from 70/90°C. The design and construction of this type of boiler represents a modern version of three pass boilers with a high level of fuel efficiency (0.75 for solid fuel and 0.88 for liquid fuel and gas). These boilers can be fed with firewood and granulated coal, however, the rated output is based on the use of high-quality lignite. Additional, optional, equipment for use with liquid and gas fuel can be supplied and delivered on request. These boilers are made of high quality sheet metal and are of a steel welded construction. burning-place and heat exchange surface are carefully calculated and constructed; boiler is well insulated. All mentioned above results in long endurance and high level of heat utilization.

COMBINATION BOILERS WITH A BUNKER **K-B** 200-1800kW



boiler type	K200B	K350B	K550B	K750B	K1000B	K1250B	K1500B	K1800B
power (kW)	200	350	550	750	1000	1250	1500	1800
length B (mm)	1140	1344	1548	1900	2100	2510	2680	2900
width A (mm)	1000	1200	1480	1480	1628	1682	1700	1750
total width C (mm)	1583	1880	2113	2504	2779	3330	3480	3700
height H (mm)	2110	2312	2838	2511	2748	3010	3820	3550
H1 (mm)	252	252	358	361	361	354	320	320
H2 (mm)	1885	2050	2560	2275	2345	3650	2865	2800
total height H3 (mm)	2180	2400	2850	2590	2831	3120	3820	3550
E (mm)	470	570	766	1000	1100	1500	1000	1000
F (mm)	208	208	208	208	208	208	500	600
G (mm)	517	575	735	800	800	800	800	850
furnace flue Φ (mm)	326	326	428	390x540	400x600	440x640	500x700	500x700
DN/NP6	80	80	100	125	125	150	150	150
DN1/NP16	40	40	40	65	65	80	80	80
minimal draught (Pa)	43	56	65	90	115	130	160	200
water content (l)	710	960	1520	2170	2910	3730	4300	4650
weight (kg)	1650	2500	3220	3710	4617	5644	6680	7850

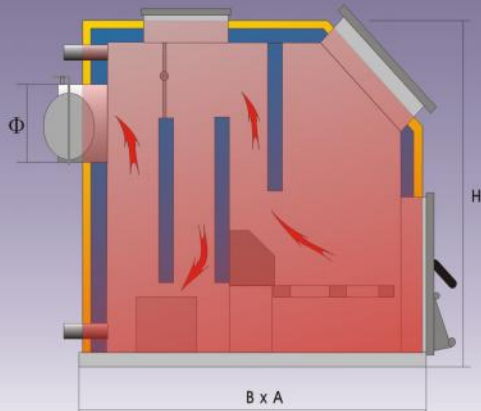
The **K-B** boilers are fitted with a bunker for coal and are intended to be used for the central heating of residential, industrial and administrative facilities for all systems of hot water heating with temperature 70/90°C. The construction of this type of boiler represents a modern version of three pass boilers which can achieve good combustion with high level of fuel efficiency (0.75 for solid and 0.88 for fuel and gas). These boilers can be fed with most kinds of granulated coal stored in the bunker on the front and dosed with a rotation flap. The rated output is achieved if high-quality lignite is used. Additional equipment for transfer from solid to liquid and gas fuel is available as an optional extra on request. This type of boiler is of steel welded construction and is made of high-quality sheet steel. The fire box and heat exchange surfaces are carefully calculated and constructed and the boiler is well insulated. Combining all the above features provide an item of equipment which, provided it maintained as prescribed, will give long service and provide a high level of energy efficiency.

HOT WATER SOLID FUEL BOILERS KTŽ

The **KTZ** Hot Water Solid Fuel Boilers are used for the heating of residential and other facilities for any form of central heating (radiator, air, floor, calorifier etc.) with a temperature range of 70/90°C and a working pressure up to 2.5 bars.

The primary fuel to be used with this boiler is solid fuel, although by fitting a suitable burner with automatic controls, it would be possible to use this boiler with both gas and liquid fuel.

The body of the boiler is made of welded steel construction. The fire box is composed of the fuel bunker and heat exchange compartment, which places it in a permanent ember boiler group. Superior construction of the fire box as well as high-quality level of insulation contributes to the high level of fuel efficiency.

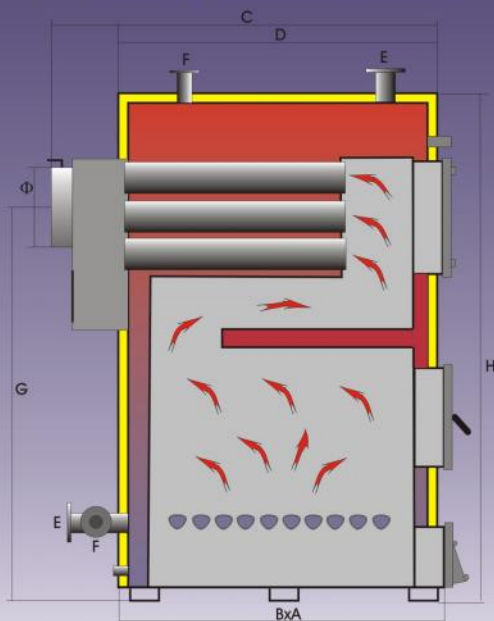


boiler type	TŽ-30	TŽ-40	TŽ-50
power (kW)	30	40	50
water content (l)	76	93	110
height B (mm)	945	945	945
width A (mm)	650	750	800
height H (mm)	980	980	980
lead/downlead (")	5/4	5/4	5/4
furnance flue Φ (mm)	180	200	200
min. draught (Pa)	25	25	25
weight (kg)	310	360	415

COMBINATION HOT WATER BOILERS **KU**

60–750kW

KU Hot water boilers KU are intended to be used for all kinds of hot water central heating with temperature 70/90°C and a working pressure of up to 2.5 bars. The primary fuel to be used with this boiler is solid fuel, although by applying of suitable burner, automatic controls, and entry, it is possible to use this boiler with gas and liquid fuel. The body of the boiler is made of a welded steel construction in accordance with JUS M.E7.022 (DIN 4751) regulations. Superior construction of the fire box, as well as high-quality insulation, contributes to the high level of thermal energy efficiency. There are two models of this design. One is for small facilities (from 60-150 kW), and the other for larger facilities (from 200-700 kW).

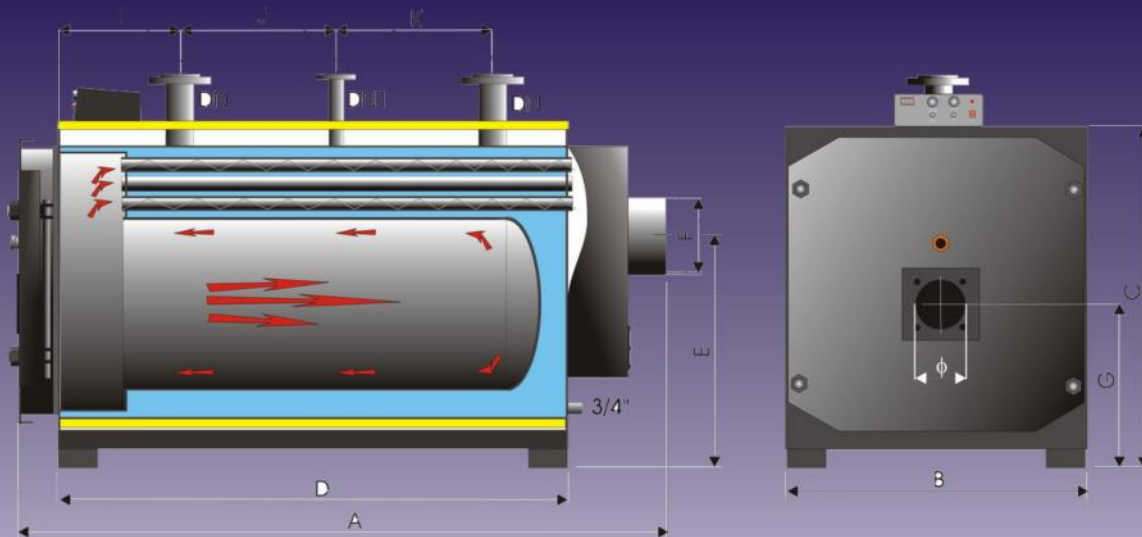


Note: Connexion "E" at the models KU_60 to KU-150 is on the back side and they have not a connexion "F".

boiler type	KU-60	KU-80	KU-100	KU-150	KU-200	KU-250	KU-300	KU-350	KU-500	KU-750
power (kW)	60	80	100	150	200	250	300	350	500	750
length B (mm)	830	850	960	1190	1070	1070	1220	1220	1380	1680
width A (mm)	690	690	750	815	1210	1320	1355	1455	1700	1850
height H (mm)	1380	1380	1550	1585	1900	1975	2045	2045	2465	2785
C (mm)	–	–	–	1390	1390	1567	1675	1775	2055	2208
D (mm)	–	–	–	–	1140	1255	1295	1395	1640	1798
E (mm)	1"1/2	1"1/2	DN-50	DN-65	470	470	470	570	766	1000
F (mm)	–	–	–	–	206	206	206	206	206	206
G (mm)	–	–	–	–	1690	1775	1790	1790	2160	2355
furnance flue Φ (mm)	210	210	210	240	320	320	320	320	428	390x540
weight (kg)	405	483	528	604	1160	1240	1610	1760	–	–

LIQUID AND GAS LOW-PRESSURE BOILERS **PGU**

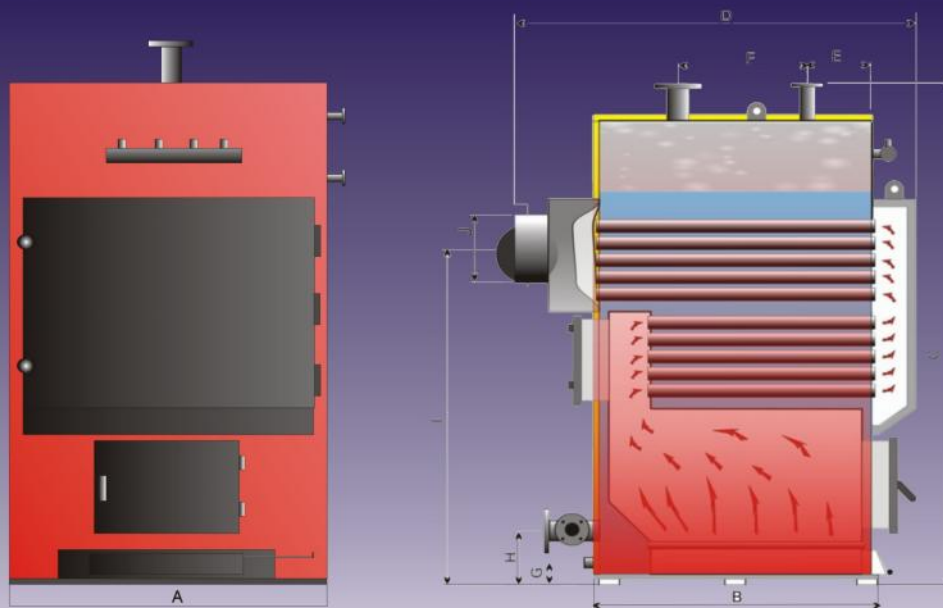
The low-pressure steam boiler **PGU** is used for the production of saturated water vapor with pressure up to 0.5 bars. This boiler can be fuelled with liquid and gas fuel. The boiler is constructed of welded sheet steel and the water is heated by direct transmission of heat through emission and convection in a fire tube and further convection through a nest of tubes. This boiler can be delivered with fine steam fitting (manometer, presostats, level meter, lavalstat) on request.



boiler type PK	150	220	300	360	450	500	650	800	1100	1500	1850	2200
steam production (kg/h)	148	222	292	355	443	517	680	790	1107	1477	1850	2200
heat capacity (kW)	100	150	200	240	300	350	450	550	750	1000	1250	1500
working press. (bar)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
water capacity (m ³)	0.20	0.25	0.40	0.42	0.44	0.52	0.62	0.92	1.42	1.76	2.35	3.95
weight (kg)	512	540	672	766	980	1116	1188	1452	1814	2400	2975	3516
steam conn. DN Np6	80	80	80	100	100	125	125	125	150	150	200	200
water conn. DN Np6	25	32	32	40	50	50	50	50	50	50	50	50
safety valve DN Np16	40	40	40	40	50	65	65	80	80	100	100	100
A (mm)	900	950	1100	1100	1075	1200	1320	1320	1490	1490	1700	1700
B (mm)	925	975	1062	1065	1095	1240	1380	1260	1545	1545	1725	1725
C (mm)	769	896	1026	1246	1247	1600	1735	1946	1880	2380	2836	3016
D (mm)	1190	1240	1300	1300	1360	1400	1550	1580	1790	1790	1960	1960
E (mm)	480	540	600	748	749	900	1000	1100	1122	1422	1700	1840
F (mm)	400	415	450	450	465	620	660	520	640	640	735	735
G (mm)	450	475	520	520	480	570	730	610	710	710	835	835
H (mm)	535	560	540	540	565	565	710	590	800	800	920	920
J (mm)	200	230	230	230	280	280	300	300	275x545	345x545	340x650	400x650
φ (mm)	130	150	150	150	170	170	170	170	180	180	205	205
comb. chamb. resi. (Pa)	235	265	340	420	340	330	400	420	500	580	420	550

SOLID FUEL LOW-PRESSURE BOILERS PK

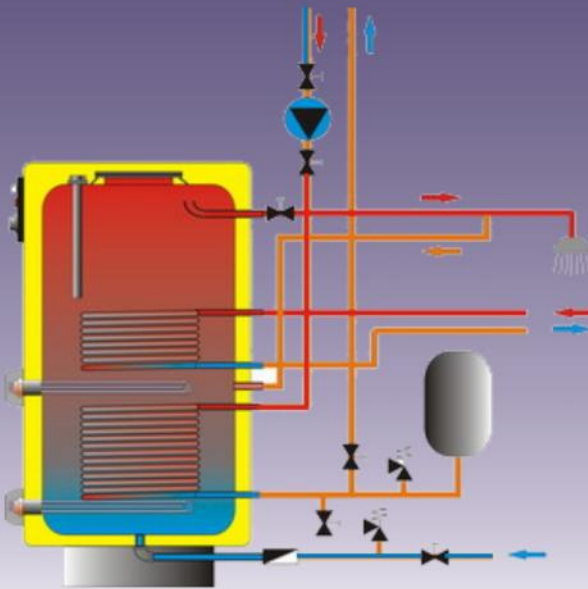
The PK low pressure steam boilers are designed to satisfy the needs of industrial customers who use saturated water vapor with pressure up to 0.5 bars. This boiler can be fuelled with solid fuel and/or wood chips, as well as with liquid and gas fuel without significant modification of its fire box. The water is heated firstly by direct transmission of heat in the fire box then secondly, through the second and third passes, by convection. The rate of combustion is controlled by a draught regulator which can be delivered with an optional fine steam fitting, such as manometer, level and vodokazno staklo on request.



boiler type PK	300	400	500	800	1100	1500	1800	2200
steam production (kg/h)	300	380	520	812	1108	1477	1846	2216
heat capacity (kW)	200	250	350	550	750	1000	1250	1500
working press. (bar)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
water capacity (m ³)	1.27	1.28	1.3	2.16	2.13	2.83	3.94	4.52
weight (kg)	1740	1914	2550	3284	3780	4707	5808	6807
steam connexion DN Np6	80	80	100	100	125	125	125	150
water connexion DN Np6	80	80	100	100	125	125	125	150
safety valve DN Np16	40	40	50	50	65	65	65	80
A (mm)	1000	1000	1200	1480	1480	1650	1650	1700
B (mm)	1140	1140	1344	1548	1900	2000	2600	2700
C (mm)	2070	2220	2540	2870	2748	3022	3330	3560
D (mm)	1583	1583	1845	2113	2500	2700	3350	3480
E (mm)	307	307	307	307	307	307	307	500
F (mm)	400	400	468	667	893	993	1393	1000
G (mm)	105	105	105	105	105	105	105	105
H (mm)	250	250	256	361	361	363	363	330
I (mm)	1577	1730	1810	2278	2260	2450	2500	2600
J (mm)	320	320	326	428	390X540	400X600	440X600	500X700

SOLAR WATER HEATER SB

The cost of providing households with hot clean water is a significant proportion of the household budget. For this reason Podvis have developed water heaters that can heat up water with minimal costs during the entire year. These water heaters consists of three separate heaters. A solar spiral heater which uses solar energy through solar collectors. A hot water spiral heater which uses heat from central heating system. An electric heater for additional heating. Each heater is sufficient to provide hot sanitary water for regular consumption. The electric heater is regulated by integrated automatic controls and a differential thermostat for solar and hot water system pump control can be fitted as an optional extra during manufacture if requested. The hot water heater and the heater itself are made of steel sheet and protected by zinc and high quality insulation ensures minimal losses of accumulated heat.



	SB-150	SB-250	SB-450
boiler type			
volume (l)	150	250	450
solar exchanger area (m ²)	0.6	0.86	1.2
hot water exchanger area (m ²)	0.35	0.45	0.65
electric heater power (kW)	2	2	2
height (mm)	1017	1540	1535
diameter (mm)	600	600	800
testing pressure (bar)	10	10	10
maximal working pressure (bar)	6	6	6
weight (kg)	88	122	156
automatics		for electric heater	
differential thermostat		on request	
Protection against corrosion		aluminium anode	
Connector for wire net		by cable	
Electric heater from 6-9 kW can be assembled on request.			

SOLAR MINI DRYER



Solar mini dryers are used for dehydration of fruit, vegetables, herbs, mushrooms and other plants by solar energy. The capacity of the drying cabinet is between 120kg and 220 kg of fruit of vegetable which can be placed on seven shelves. Drying temperature is up to 90C° depending on the type of fruit of vegetable. The interior of the drying compartment is made of stainless sheet metal (inox). The solar collector can be easily detached which facilitates ease of transfer to another location. The solar dryer is fitted with wheels which facilitate moving during the day to receive the most direct sunlight. The temperature level in the drying cabinet is regulated by thermometer. In case of insufficient solar energy, the temperature can be regulated by a 1kw electric heater.