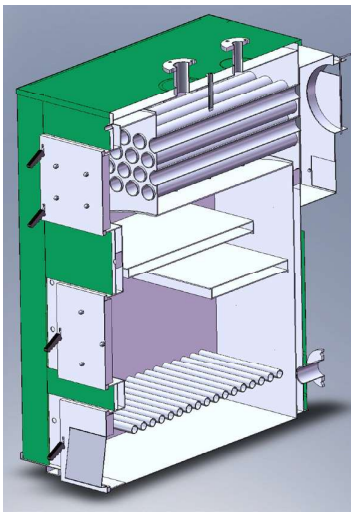
ŠUKOPLAM 100-1000 kW

Boilers type Šukoplam with power range 100-900kW are ment primerily for combustion of bulk solid fuel (wood, coal) which is manually loaded through spaceous middle boiler door. Also, middle boiler door is equiped with the opening for instaling pellet, oil or gas burner. This feature gives versatility to the boiler for combusting different type of fuels and very easy change of fuel in use. Boiler construction is completly in accordance with european standard EN 303-5.

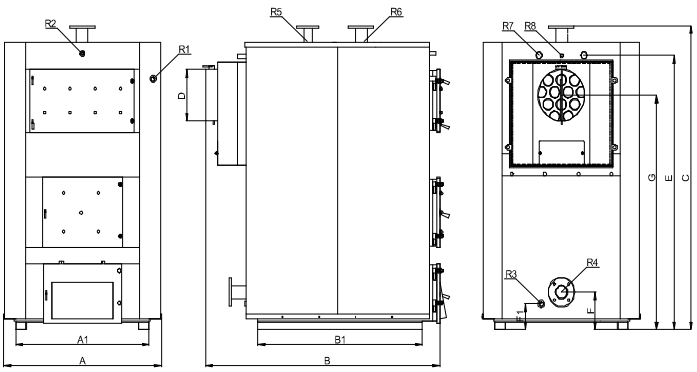
Boiler is constructed as „three drafted“ with two water cooled chambers and flue pipes which means that products of combustion pass water area in three occasions maximasing the heat exchange. First heat exchange is in boiler firebox, mostly by methods of irradiation, through large surface area of boiler firebox, second heat exchange is in the water cooled chambers of the boiler mostly by methods of irradiation and convection, and the third heat exchange is in flue pipes before the flue gasses exit the boiler mostly by methods of coduction and convection. Boiler body is well insulated with mineral wool and boiler sheeting is protected with painting or powder coating processes.

Boiler is ment for production of hot water in operating mode 110/90ºC and 90/70ºC with maximum allowed work pressure of 3bar. Installing the pellet, oil or gas burner and installing the turbulators into flue pipes for even greater heat exchange can increase the efficiency of the boiler up to 92%. Automatic controler for boiler work with burners and also turbulators are delivered on buyer demand and are not included in standard boiler delivery. Regulation of air flow needed for combustion of chunk solid fuel is done with draft regulator which moves the flap on the bottom boiler door and by doing so increases or decreases the amount of air needed for the combustion. When using pellet, oil or gas burner regulation of air flow needed for the combustion is done through the burner and boiler automatic controler. Protection of boiler from increased pressure is done by installing the safety valve on the appropriate place on the boiler, while protection of the boiler from increased temperatures is done by installing the safety heat exchanger which, if the need arises, cools down the boiler.



Boiler	Boiler power kW		CONECTION DIMENSIONS							BOILER DIMENSIONS (mm)									
	Drvo	Ulje	R1	R2	R3	R4 / R6	R5	R7	R8	A1	B1	A	B	C	D	E	F	F1	G
Plam 100	100	115	3/4“	1/2“	3/4“	DN50 NP6	DN25 NP16	5/4“	1/2“	550	850	730	1375	1380	200	1194	250	120	1040
Plam 125	125	144	3/4“	1/2“	3/4“	DN65 NP6	DN32 NP16	5/4“	1/2“	620	900	800	1425	1665	200	1470	255	105	1288
Plam 150	150	172	3/4“	1/2“	3/4“	DN65 NP6	DN32 NP16	5/4“	1/2“	670	1000	850	1525	1685	240	1464	250	130	1240
Plam 175	175	200	3/4“	1/2“	3/4“	DN80 NP6	DN40 NP16	5/4“	1/2“	670	1100	850	1625	1710	260	1527	250	100	1320
Plam 200	200	230	3/4“	1/2“	3/4“	DN80 NP6	DN50 NP16	5/4“	1/2“	900	1100	1050	1625	1790	300	1495	260	110	1250
Plam 250	250	288	3/4“	1/2“	3/4“	DN80 NP6	DN50 NP16	5/4“	1/2“	920	1260	1070	1750	1950	350	1737	250	120	1448
Plam 300	300	350	3/4“	1/2“	3/4“	DN80 NP6	DN50 NP16	1“	1/2“	1020	1230	1180	1750	2050	350	1815	250	170	1535
Plam 350	350	420	3/4“	1/2“	3/4“	DN80 NP6	DN50 NP16	1“	1/2“	1120	1230	1280	1750	2050	350	1895	250	170	1615
Plam 400	400	500	3/4“	1/2“	3/4“	DN80 NP6	DN50 NP16	1“	1/2“	1180	1320	1340	1840	2260	400	2025	250	170	1705
Plam 500	500	600	3/4“	1/2“	3/4“	DN100 NP6	DN50 NP16	1“	1/2“	1220	1500	1380	2020	2680	430	2430	245	120	2100
Plam 550	550	660	3/4“	1/2“	3/4“	DN100 NP6	DN50 NP16	1“	1/2“	1220	1650	1380	2170	2680	430	2445	250	120	2105
Plam 750	750	900	3/4“	1/2“	3/4“	DN100 NP6	DN65 NP16	1“	1/2“	1420	1750	1580	2300	2880	480	2610	245	100	2225
Plam 1000	1000	1100	3/4“	1/2“	3/4“	DN100 NP6	DN65 NP16	1“	1/2“	1470	1870	1675	2530	2880	480	2615	245	100	2220

***The manufacturer reserves the right to change the dimensions**



Boiler	Water content (l)	Necessary draft (Pa)	Work pressure (bar)	Boiler weight (kg)	Heating area (m2)			Approximate chimney dimensions	
					A	B	C	Diameter (mm)	Height (m)
Plam 100	310	40	3	650	500	670	1000	250	12
Plam 125	375	45	3	765	625	840	1250	250	15
Plam 150	410	47	3	840	750	1010	1500	300	15
Plam 175	485	48	3	1125	875	1175	1750	300	15
Plam 200	615	52	3	1325	1000	1340	2000	300	18
Plam 250	800	53	3	1510	1250	1675	2500	350	18
Plam 300	870	54	3	1750	1500	2010	3000	350	18
Plam 350	990	55	3	2065	1750	2345	3500	400	18
Plam 400	1200	56	3	2300	2000	2680	4000	400	20
Plam 500	1540	58	3	2980	2500	3350	5000	450	20
Plam 550	1750	59	3	3350	2750	3685	5500	450	20
Plam 750	2230	62	3	4685	3750	5025	7500	500	22
Plam 1000	2670	70	3	5200	4500	6030	9000	500	24

NOTE:
A - poorly insulatet objects with room hight up to do 3m
B - well insulatet objects with room hight up to 3m (5cm insulation)
C - extremely well insulatet objects with room hight up to 3m (10cm insulation)