

## Technical data of boilers for power ranges 20-100 kW

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Boiler nominal power, Qn (kw)		20	30	40	50	65	80	100
Minimal heat output, Qmin (Kw)		16	24	32	40	52	64	80
Water content(l)		120	140	165	190	245	280	310
Minimum necessary draft(mbar)		0,28	0,28	0,28	0,3	0,34	0,37	0,4
Exhaust gas temperature at Qn(°C)		200						
Exhaust gas temperature at Qmin(°C)		150						
Exhaust gas mass rate at Qn(kg/s)		0,028	0,041	0,059	0,068	0,089	0,110	0,138
Exhaust gas mass rate at Qmin(kg/s)		0,019	0,029	0,039	0,049	0,064	0,078	0,098
Fuel type	Wood(200 x 200 x L) mm	L						
	Coal 20 – 60 mm	400	450	500	580	680	730	800
Fuel loading limit		50% of the firebox volume						
Average combustion period		7,2	7,5	6,1	6,6	5,6	5,8	5,1
Flue pipe diameter(mm)		160		180		200		
General dimension(l x L x H) mm		600 x 1035 x 1245	670 x 1065 x 1270	670x 1115x 1270	700x 1185x 1270	730 x 1285 x 1270	730x 1335x 1335	730x 1375x 1380
<b>Safety, control and adjustment devices</b>								
<b>Thermometer</b> IMIT Italy code 021968 or similar 58x25 mm, 10/105 C, 1500 mm probe		√	√	√	√	√	√	-
<b>Capillary thermostat</b> IMIT Italy code 540010 or similar 3 contacts, 0/90 C, 1000 mm probe length		√	√	√	√	√	√	√
<b>Draught regulating valve</b> Caleffi code 529 or similar adjustment range 30-90 C, max. working pressure 10 bar , 3/4M connection max. load on chain 10N		√	√	√	√	√	√	√
<b>Boiler safety group</b> Caleffi code 302 or similar - manometer - air separator - safety valve		√	√	√	√	√	√	-
<b>Safety thermal valve</b> Caleffi code 543 or similar 3/4" F valve connection , 5-100 C , Pmax = 10 bar, 1/2" M probe connection, probe length 1300mm		√	√	√	√	√	√	√

## Technical data of Šukoplam boilers for power ranges 125-250 kW

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SR EN 4001:2001  
CERTIFICAT DE ACREDITARE  
NR. OR 163/2017

Boiler nominal power, Qn (kw)		125	150	175	200	250
Minimal heat output, Qmin (Kw)		100	125	140	160	200
Water content (l)		355	400	475	600	700
Minimum necessary draft (mbar)		0,45	0,47	0,48	0,52	0,53
Exhaust gas temperature at Qn(°C)		200				
Exhaust gas temperature at Qmin(°C)		150				
Exhaust gas mass rate at Qn(kg/s)		0,172	0,207	0,241	0,275	0,345
Exhaust gas mass rate at Qmin(kg/s)		0,123	0,148	0,173	0,197	0,246
Fuel type	Wood (200 x 200 x L) mm	L				
	Coal 20 – 60 mm	850	950	1050	1050	1150
Fuel loading limit (%)		50% of the firebox volume				
Average combustion period (h)		4,1	4,1	4,1	4,2	4,2
Flue pipe diameter (mm)		200	240	260	300	350
General dimension (l x L x H) mm		800 x 1425 x 1665	850 x 1525 x 1685	850 x 1625 x 1710	1050 x 1625 x 1790	1070 x 1750 x 1950
<b>Safety, control and adjustment devices</b>						
<b>Capillary thermostat</b> IMIT Italy code 540010 or similar, 3 contacts, 0-90°C, 1000 mm probe length		√	√	√	√	√
<b>Draught regulating valve</b> Caleffi code 529 or similar adjustment range 30-90°C, max. working pressure 10 bar, 3/4M connection max. load on chain 10N		√	√	√	√	√
<b>Safety thermal valve</b> Caleffi code 543 or similar, 3/4" F valve connection, 5-100°C, Pmax = 10 bar, 1/2" M probe connection, probe length 1300mm		√	√	√	√	√
<b>Safety valve</b> LESER, Germany, Type 440, with flange		DN 32	DN 32	DN 40	DN 50	DN 50
<b>Thermomanometer</b> Caleffi code 503 or similar, 1/2", Central back conexion, 0-120°C, 0-6 bar		√	√	√	√	√

## Technical data of Šukoplam boilers for power ranges 300-750 kW



<b>Boiler nominal power, Qn (kw)</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>500</b>	<b>550</b>	<b>750</b>
<b>Minimal heat output, Qmin (Kw)</b>	240	280	320	400	440	600
<b>Water content, (l)</b>	840	970	1200	1540	1750	1990
<b>Minimum necessary draft (mbar)</b>	0,54	0,55	0,56	0,58	0,59	0,62
<b>Exhaust gas temperature at Qn(°C)</b>	200					
<b>Exhaust gas temperature at Qmin(°C)</b>	150					
<b>Exhaust gas mass rate at Qn(kg/s)</b>	0,413	0,482	0,552	0,689	0,758	1,034
<b>Exhaust gas mass rate at Qmin(kg/s)</b>	0,296	0,345	0,395	0,494	0,543	0,740
<b>Fuel type</b>	Wood(200 x 200 x L) mm	L				
	Coal 20 – 60 mm	1150	1150	1250	1400	1550
<b>Fuel loading limit (%)</b>	50% of the firebox volume					
<b>Average combustion period (h)</b>	4,3	4,3	4,5	4,9	4,9	5,1
<b>Flue pipe diameter (mm)</b>	350	350	400	430	430	480
<b>General dimension (l x L x H) mm</b>	1180 x	1280 x	1340 x	1380 x	1380 x	1580 x
	1750 x	1750 x	1840 x	2020 x	2170 x	2300 x
	2050	2050	2260	2680	2680	2880
<b>Safety, control and adjustment devices</b>						
<b>Capillary thermostat</b> IMIT Italy code 540010 or similar3 contacts, 0/90°C, 1000 mm probe length	√	√	√	√	√	√
<b>Draught regulating valve</b> Caleffi code 529 or similar adjustment range 30-90°C, max. working pressure 10 bar, 3/4M connection max. load on chain 10N	√	√	√	√	√	√
<b>Thermal safety valve</b> Caleffi code 543 or similar, 3/4" F valve connection , 5-100°C, Pmax = 10 bar, 1/2" M probe connection, probe length 1300mm	√	√	√	√	√	√
<b>Safety valve</b> LESER, Germany, Type 440, with flange	DN 50	DN 50	DN 50	DN 50	DN 50	DN 65
<b>Thermomanometer</b> Caleffi code 503 or similar, 1/2", Central back connexion, 0-120°C, 0-6 bar	√	√	√	√	√	√

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**CERTIFICAT DE  
EXAMINARE EC A PROIECTULUI**  
**Certificate of EC Design Examination**



Examinarea EC a proiectului (Modul B1)  
conform directivei 97/23/EC (HG 584/2004)

**EC Design-Examination (Module B1) according to Directive 97/23/EC (GD 584/2004)**

**Nr. certificat:** 005E - 584/EC  
**Certificate No.:**

**Nume și adresă  
producător:** **D.O.O. ŠUKOM**  
**Name and Address  
of Manufacturer:** **Branka Radičevića no. 4, 19350 Knjaževac, Serbia**

**Produs:** Corp cazan de incalzire centrala cu functionare pe combustibil solid, tip Šukoplam  
**Product:** 20, 30, 40, 50, 65, 80, 100, 125, 150, 175, 200, 250, 300, 350, 400, 500, 550, 750 Kw  
(cu anexa - 2 pagini)  
**Central heating body boiler functioning with solid fuel, Šukoplam type**  
**20, 30, 40, 50, 65, 80, 100, 125, 150, 175, 200, 250, 300, 350, 400, 500, 550, 750 Kw**  
(see the annex - 2 pages)

**Nr. raport evaluare:** 271E-RE-01  
**Assessment report no:**

Rezultatele evaluării proiectului nr. SPL.300.00.00 atestă că acesta respectă cerințele esențiale de  
securitate din directiva 97/23/EC (HG 584/2004).

**The results of design evaluation no. SPL.300.00.00 attest that the product fulfills the essential  
safety requirements from the Directive 97/23/EC (GD 584/2004).**

**Marcaj aplicat:**  
**Applied mark**



**Punct de lucru:** D.O.O. ŠUKOM  
**Site of Manufacturing:** Branka Radičevića no. 4, 19350 Knjaževac, Serbia

**Certificare curenta:** 17.07.2012 /Bucharest  
**Current certification**

**Valabil până la:** 16.07.2022  
**Valid until:**



**SC ISCIR-CERT SA**  
**Director General**  
General Director  
**Eng. Stelian Negoescu**

SC ISCIR CERT SA  
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**Număr organism notificat: 1798**  
Notified Body Number:

**The list of the relevant parts of the technical documentation of heating boiler's body type 300**

1. The general description of the Šukoplam boiler's body;
2. The conceptual design of boiler's body assembly no.SPL.300.00.00;
3. The manufacturing drawings of the sub-assemblies and components of the boiler's body Šukoplam 300;
4. The list of the harmonised standards applied in full or in part;
5. Instructions for installing, use and maintenance;
6. On flow and final control plan;
7. The qualification of the welders and welding approvals(WPS, WPQR), according to PED, Annex I, Items 3.1.2;
8. Technical data of Šukoplam boiler's body for thermal power range 20-750 Kw;
9. Marking of the boilers body(draft)
10. Pattern of CE Declaration of Conformity

### Technical data of boiler's body type 20-100

Boiler body type	20	30	40	50	65	80	100
Water content(l)	120	140	165	190	245	280	310
Flue pipe diameter(mm)	160		180	200			
General dimension(l x L x H) mm	600 x 1035 x 1245	670 x 1065 x 1270	670x 1115x 1270	700x 1185x 1270	730 x 1285 x 1270	730x 1335x 1335	730x 1375x 1380

### Technical data of boiler's body type 125-250

Boiler's body type	125	150	175	200	250
Water content (l)	355	400	475	600	700
Flue pipe diameter (mm)	200	240	260	300	350
General dimension (l x L x H) mm	800 x 1425 x 1665	850 x 1525 x 1685	850 x 1625 x 1710	1050 x 1625 x 1790	1070 x 1750 x 1950
<b>Safety valve</b> LESER, Germany, Type 440, with flange	DN 32	DN 32	DN 40	DN 50	DN 50

### Technical data of boiler's body type 300-750 kW

Boiler nominal power, Qn (kw)	300	350	400	500	550	750
Water content, (l)	840	970	1200	1540	1750	1990
Flue pipe diameter (mm)	350	350	400	430	430	480
General dimension (l x L x H) mm	1180 x 1750 x 2050	1280 x 1750 x 2050	1340 x 1840 x 2260	1380 x 2020 x 2680	1380 x 2170 x 2680	1580 x 2300 x 2880
<b>Safety valve</b> LESER, Germany, Type 440, with flange	DN 50	DN 50	DN 50	DN 50	DN 50	DN 65