

Blok i kontejner kotlovnice / Block & container plants

BLOK KOTLOVNICE

Kod blok kotlovnice sva oprema se nalazi na jednom postolju koje je moguće jednostavno transportirati. Prednosti ove izvedbe kotlovnice su u niskim troškovima montaže, kratkim rokovima izrade, te mogućnostima premještanja postrojenja.

KONTEJNER KOTLOVNICE

Ako se radi o kontejner kotlovnici sva oprema je ugrađena unutar kontejnera, te predstavlja kompletno izrađeno i ispitano postrojenje spremno za pogon na bilo kojoj lokaciji.

PRIJENOSNE KOTLOVNICE

- ✓ prijenosne kotlovnice montirane na kamionu
- ✓ prijenosne kontejner kotlovnice, montirane na prikolici koje mogu samostalno stajati na željenoj lokaciji



BLOCK POWER PLANTS

In block power plants, all the equipment is located on a single base that can be easily transported. The advantages of this design include: the low-cost mounting, short-term production and the possibility of plant relocation.

CONTAINER PLANTS

In the case of container boiler room, all the equipment is built within the container, so this represents a completely fitted and tested plant, ready for use on any location.

MOBILE PLANTS

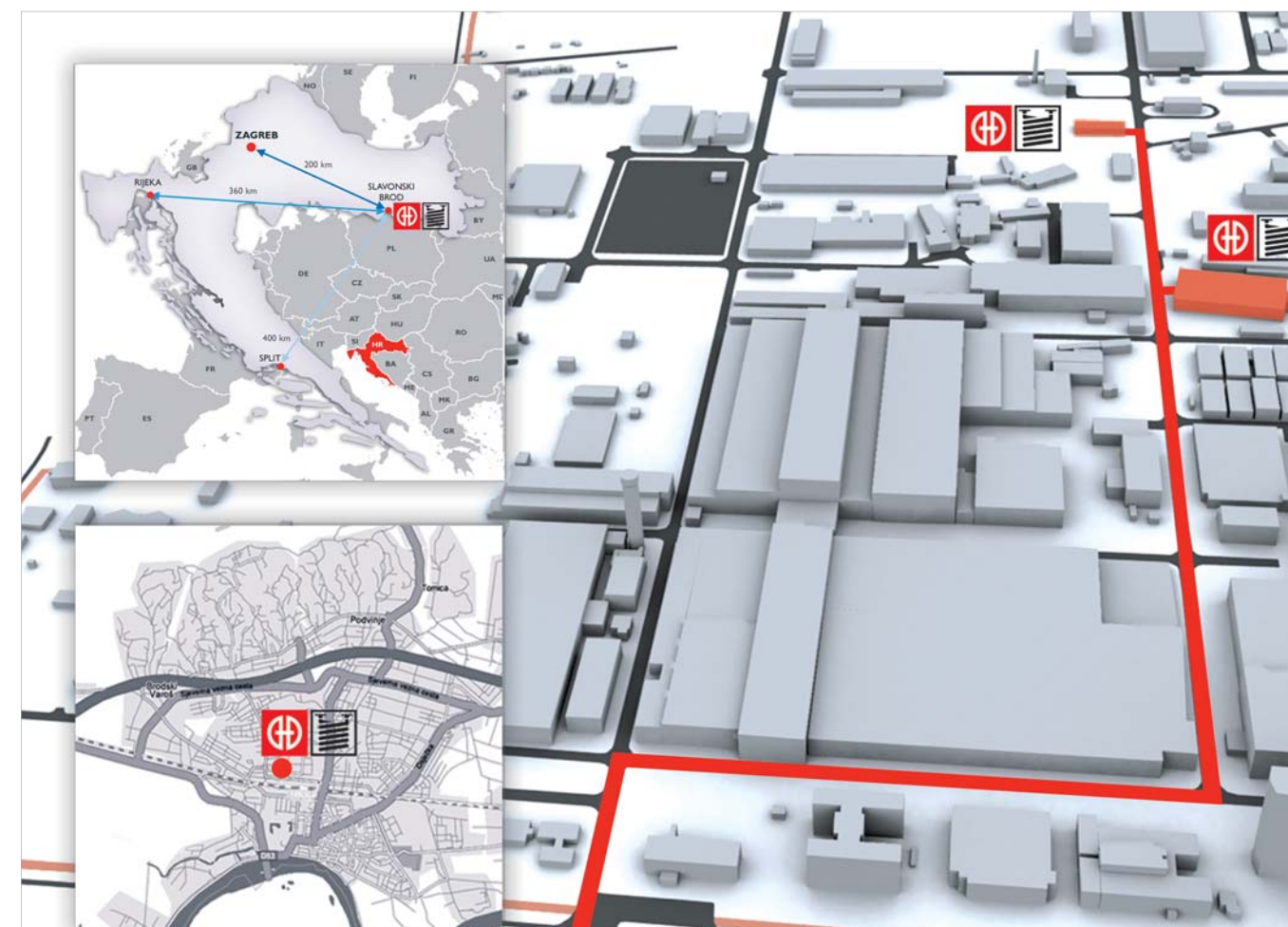
- ✓ Mobile boiler rooms mounted on a truck
- ✓ Mobile container plants mounted on a trailer, which can stand independently on preferred location

PRIMJENA

- ✓ **Prehrambena i industrija pića** (pranje, ukuhavanje, pečenje, konzerviranje, destiliranje i dr.)
- ✓ **Građevinska industrija i asfaltne baze** (postrojenja za proizvodnju cementa, opeke, stiropora, betona i dr.)
- ✓ **Kemijska i petrokemijska industrija** (destilacija, esterifikacija, saponifikacija, sušenje, isparavanje i dr.)
- ✓ **Hoteli i bolnice** (praonice rublja, kuhinje, sterilizacija i dr.)
- ✓ **Drvena industrija** (prešanje, sušenje, impregnacija i dr.)
- ✓ **Poljoprivreda** (peletiranje, sušenje, grijanje staklenika i dr.)
- ✓ **Tekstilna i kožarska industrija** (bojanje, termofiksiranje, glačanje, sušenje, kemijsko čišćenje i dr.)
- ✓ **Industrija gume i plastike**
- ✓ **Papirna industrija**
- ✓ **Grijanje hala panel grijačima**
- ✓ **Metalna industrija**

APPLICATION

- ✓ **Food and beverage industry** (washing, preserving, baking, conservation, distillation, etc.)
- ✓ **Construction industry and asphalt plants** (cement, concrete, Styrofoam, brick production, etc.)
- ✓ **Chemical and petrochemical industry** (distillation, esterification, saponifying, drying, varnishing, etc.)
- ✓ **Hotels and hospitals** (laundries, kitchens, sterilization, etc.)
- ✓ **Wood industry** (pressing, drying, impregnation, etc.)
- ✓ **Agriculture** (pelleting, drying, greenhouse heating, etc.)
- ✓ **Textile and leather industry** (coloring, thermal fixation, ironing, drying, dry-cleaning, etc.)
- ✓ **Rubber and plastics industry**
- ✓ **Cellulose and paper industry**
- ✓ **Panel heating**
- ✓ **Metal industry**



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 **ĐURO ĐAKOVIĆ
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**KOTLOVI ZA BRZU PROIZVODNJU PARE
BOILERS FOR RAPID STEAM PRODUCTION**

Najbrži način automatiziranog dobivanja pare je uz pomoć kotlova za brzu proizvodnju pare, kod kojih se para proizvodi strujanjem vode kroz spiralu kotla koja je ujedno ložišni i izmjenjivački tlačni dio kotla.

Konstantno napajanje kotla vodom osigurava napojna pumpa, a regulatori tlaka i automatika plamenika održavaju zadani tlak pare u kotlu.

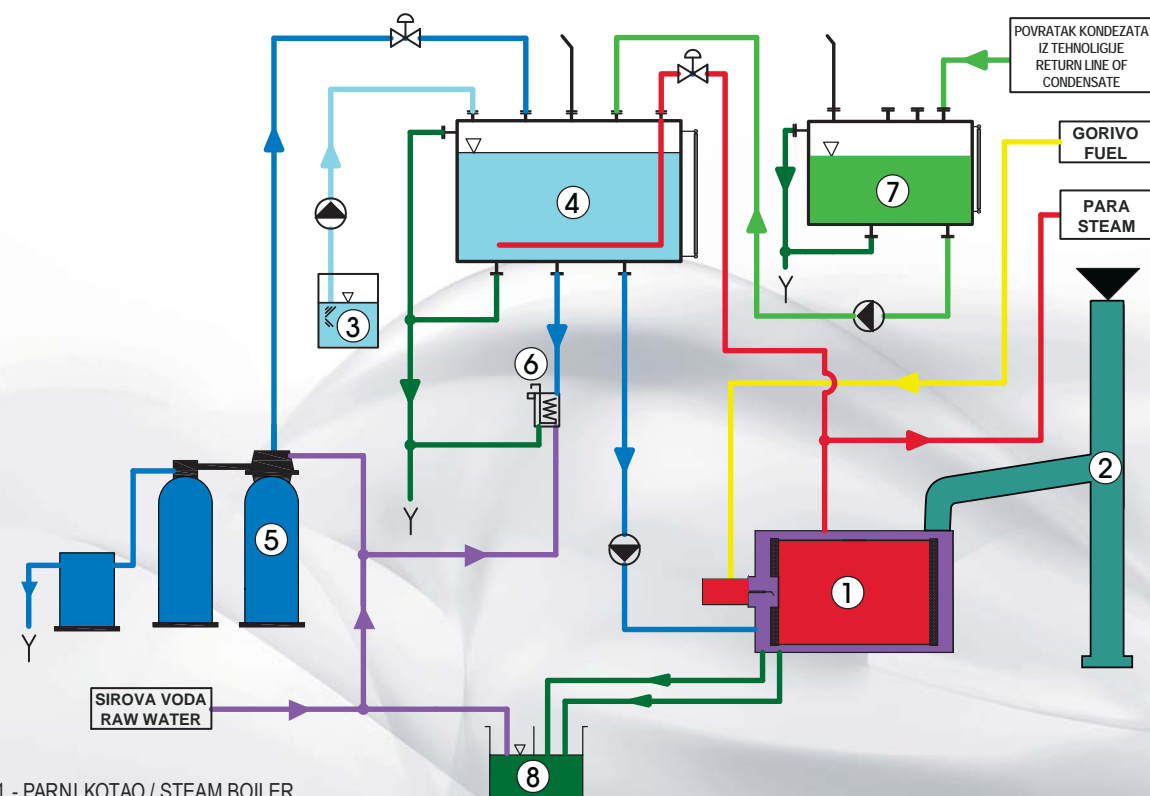
Karakteristike i prednosti

- ✓ radni tlak do 12,6 bara (na zahtjev do 100 bara i više)
- ✓ kapacitet od 75 kg do 4000 kg/h
- ✓ gorivo: plin, ulje, kombinirano plin/ulje
- ✓ stupanj iskorištenja preko 91%
- ✓ brzi start iz hladnog stanja (oko 3 minute)
- ✓ mali toplinski gubici kod starta
- ✓ jednostavno upravljanje, potpuno automatizirani rad
- ✓ kompaktna izvedba, mali gabariti
- ✓ mali zahtjevi za električnom energijom
- ✓ niski investicijski troškovi postrojenja

The fastest way to produce steam automatically is by using boilers for rapid steam production, where steam is produced by water streaming through a single-pipe spiral, which serves simultaneously as a fuelling and pressure-exchanging element of the boiler. A feeding pump ensures the constant water supply to the boiler, while the pressure regulators and the automatic mechanism of the burner maintain the designated steam pressure in the boiler.

Characteristics and advantages

- ✓ working pressure up to 12,6 bars (on request ≥ 100 bars)
- ✓ capacity: 75 - 4000 kg/h
- ✓ fuel: gas, oil, combined gas/oil
- ✓ utilization level > 91%
- ✓ quick start from cold condition (about 3 min)
- ✓ small heat losses at start
- ✓ simple to operate, completely automatic work
- ✓ compact design, small dimensions
- ✓ low electricity requirements
- ✓ low investment and maintenance costs of the plant



- 1 - PARNI KOTAO / STEAM BOILER
- 2 - DIMNJAK / CHIMNEY
- 3 - DOZATOR KEMIKALIJA / CHEMICAL DISPENSER
- 4 - SPREMNIK NAPOJNE VODE / FEEDWATER
- 5 - AUTOMATSKI OMEKŠIVAČ VODE / AUTOMATIC WATER SOFTENER
- 6 - HLADNJAK ZA PROBE NAPOJNE VODE / FEED WATER SAMPLING COVER
- 7 - SPREMNIK KONDEZATA / CONDENSED TANK
- 8 - RASHLADNA JAMA / WASTE WATER COOLING PIT

- SIROVA VODA / RAW WATER
- ZEMNI PLIN / NATURAL GAS
- NAPOJNA VODA / FEED WATER
- OTPADNA VODA / WASTE WATER
- PARA / STEAM
- KONDEZAT / CONDENSATE
- ODZRAČNI VOD / VENT

Tip/Type	VPS	75	150	300	400	500	600	800	1000	1250	1500	2000	2500	3000	4000
Nazivni učin Nom. capacity	kg/h	75	150	300	400	500	600	800	1000	1250	1500	2000	2500	3000	4000
Toplinska snaga Thermal power	kW	52	105	210	280	350	420	560	700	875	1050	1400	1750	2100	2800
Sadržaj vode Volume	Lit.	13,5	25	55	64	69	145	160	260	391	433	492	743	1030	1400
Maximalni pritisak Max. Pressure	bar	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6
Izlaz pare Exit Steam (P)	DN	20	25	32	32	32	50	50	50	50	80	100	100	100	125
Stupanj iskorištenja Efficiency	%	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Potrošnja extra lakog ulja Consumption of extra light oil	kg/h	5	10	20	26	33	39	52	65	83	100	130	162	195	260
Potrošnja prirodnog plina Consumption of natural gas	Nm³/h	5,5	11	22	30	37	44	60	75	95	116	150	188	225	300

Dimenzije kotla vertikalna izvedba / Dimensions of the vertical boiler design															
A	mm	925	1180	1400	1580	1650	1970	2000	2300	2500	2680	2910	2900	3700	4100
ØB	mm	745	740	1000	1000	1000	1150	1300	1300	1500	1500	1500	2000	2000	2200
C	mm	740	952	1220	1325	1400	1720	1750	2000	2170	2370	2590	2600	3400	3800
D	mm	1050	110	1420	1420	1430	1590	1760	1860	2080	2100	2120	2600	2600	2600
ØE	mm	110	250	250	250	250	250	300	300	350	350	350	400	450	550
F	mm	953	1030	1315	1315	1315	1710	1880	1880	2630	2630	2700	3200	3200	3200
G	mm	-	-	-	-	-	2980	3000	3300	3610	3660	3900	3900	4700	5100
Težina/Weight	kg	370	505	900	1010	1055	1680	1800	2100	3100	3280	3400	4000	4700	5700

Dimenzije kotla horizontalna izvedba / Dimensions of the horizontal boiler design															
H	mm	1500	1500	1500	1500	1550	1950	2100	2100	2262	2200	2200	2700	2700	2700
ØB	mm	745	745	1000	1000	1020	1180	1300	1300	1520	1510	1510	2000	2000	2000
I	mm	950	950	1200	1200	1200	1480	1600	1600	1815	1850	1850	2300	2300	2300
J	mm	1400	1400	1400	1400	1350	1700	2000	2000	2100	2120	2120	2600	2600	2600
L	mm	900	1100	1300	1500	1580	1860	2000	2200	2375	2580	2800	2800	3600	4000
ØE	mm	110	250	250	250	250	250	300	300	350	350	350	400	450	550
K	mm	500	500	630	630	838	880	1020	1020	1040	1080	1080	1500	1500	1500
Težina/Weight	kg	450	600	1100	1200	1350	1780	2100	2500	3110	3250	3500	4200	5000	6000

Napomena/Remark:
Mogući su kotlovi i većeg radnog pritiska (za dimenzije se posebno obratiti)/Boilers with higher working pressure are also available (contact us for measures)
Zadržano pravo izmjene/ We reserve the right to change the terms



VPS 600 - Dubrovački vrtovi sunca



VPS 1500 - Slavonija I.G.M.



VPS 2000 - Instalomont, Čakovec

