

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

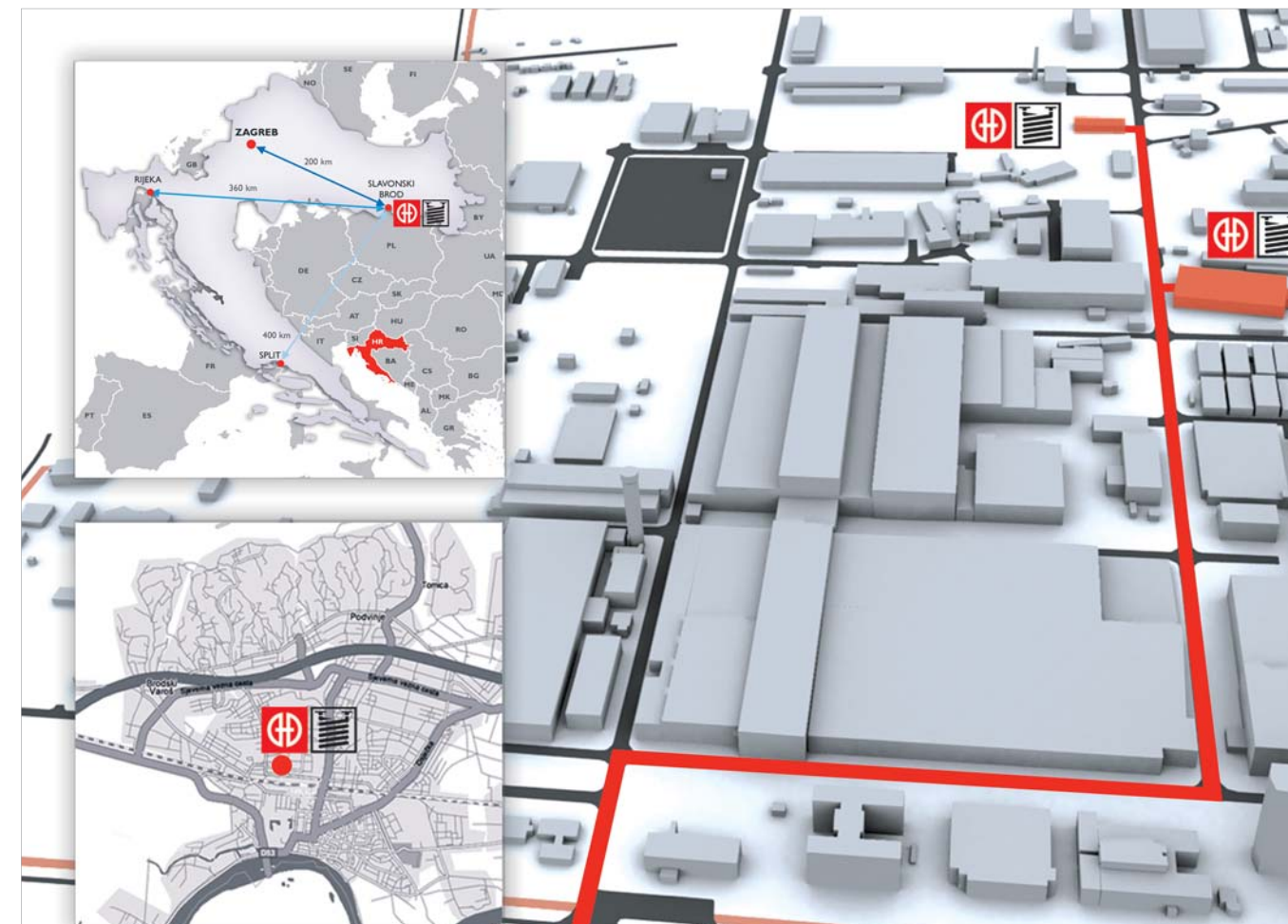


PRIMJENA

- ✓ **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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VRELOULJNI KOTLOVI
THERMAL OIL HEATERS

Vrelouljni kotao je potpuno automatizirana jedinica za zagrijavanje termičkog ulja s kontroliranom cirkulacijom. Najvažniji dio kotla predstavlja cilindrično savijena cijevna spirala koju, posredstvom cirkulacijske pumpe, cirkulira termičko ulje i zagrijava se. Termičko ulje kao medij za prijenos toplinske energije ostvaruje vrlo visoke radne temperature (do 320°C), uz niske radne tlakove (do 10 bara).

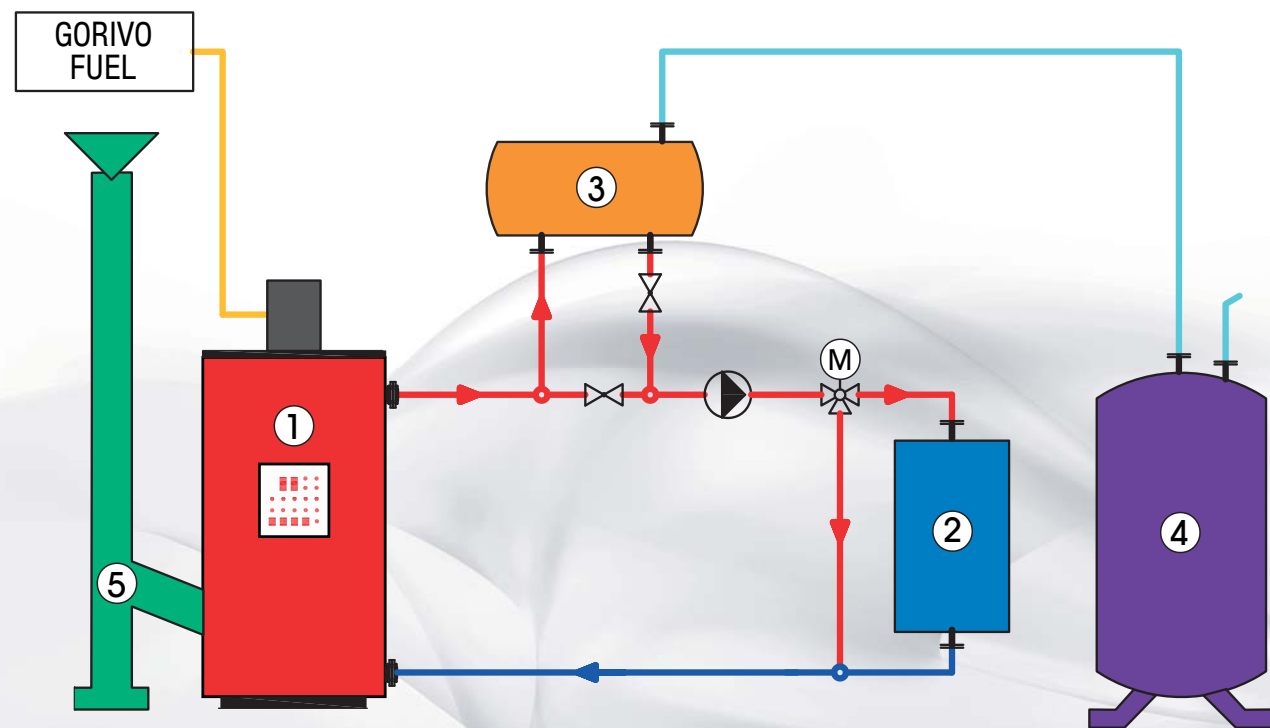
Karakteristike i prednosti

- ✓ radna temperatura do 320°C
- ✓ radni tlak do 10 bar - nazivni tlak NP16
- ✓ područje kapaciteta: 75 kW do 5000 kW
- ✓ loženje: plin, lako ulje, kombinirano
- ✓ nema opasnosti zbog porasta tlaka
- ✓ točna regulacija izlazne temperature
- ✓ nije potreban sustav za kemijsku pripremu
- ✓ nema toplinskih gubitaka zbog tople kondenzacije
- ✓ nema opasnosti od korozije niti taloženja u sustavu
- ✓ niski troškovi održavanja, tihi u radu,
- ✓ jednostavni za upravljanje, potpuno automatiziran rad

thermal oil heater is a fully automated thermal oil-heating unit with controlled circulation. The most important part of the heater is a cylinder-shaped spiral tube, through which the circulation-pump pushes and heats the thermal oil. As a medium of thermal energy transfer, the thermal oil reaches very high working temperatures of up to 320 C, along with low working pressures of up to 10 bars.

Characteristics and advantages

- ✓ working temperature: up to 320°C
- ✓ working pressure up to 10 bars, nominal pressure NP16
- ✓ capacity : 75kW-5000kW
- ✓ fuel: gas, light oil, combined
- ✓ no danger from pressure rising
- ✓ accurate regulation of exit temperature
- ✓ no need for chemical preparation of water
- ✓ no heat losses due to warm condensation
- ✓ no danger of corrosion or sedimentation in the system
- ✓ low maintenance costs, low noise level
- ✓ simple to operate, completely automatic work



- 1 - VRELOULJNI KOTAO / THERMAL OIL HEATER
- 2 - POTROŠAČ / CONSUMER
- 3 - EKSPANZIONA POSUDA / EXPANSION VESSEL
- 4 - SABIRNA POSUDA / COLLECTION VESSEL
- 5 - DIMNJAK / CHIMNEY

- TERMIČKO ULJE POLAZ / THERMAL OIL DISCHARGE LINE
- TERMIČKO ULJE POVRAT / THERMAL OIL RETURN LINE
- ODUŠAK / VENT
- GORIVO / FUEL

Tip/Type	VKS	50	100	200	300	400	500	600	700	1000	1250	1500	2500	3500	5000
Nazivni učin Nom. capacity	kW	40-80	80-150	150-250	250-350	350-450	450-520	520-650	650-750	750-1000	1000-1400	1400-1750	1750-2500	2500-3500	4000-5000
Sadržaj term. ulja Content of thermal oil	Lit.	33	38,6	95	147	192	200	292	337	495	660	716	1710	2686	3150
Razlika temp. term. ulja Dif. in temp. of thermal oil	°C	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Priključak term. ulja (P) Therm. Oil connection (P)	DN	25	32	40	50	50	50	65	65	80	100	100	125	150	200
Stupanj iskorištenja* Efficiency*	%	88-89	88-89	88-89	87-89	88-89	88-89	88-89	88-89	88-89	88-89	88-89	88-89	89-91	89-91
Potrošnja extra lakog ulja Consumption of extra light oil	kg/h	3,8-7,6	7,6-14,4	14,4-24	24-34	27-49	27-50	50-63	63-73	73-97	96-135	135-170	170-242	240-340	378-477
Potrošnja prirodnog plina Consumption of natural gas	Nm³/h	4,4-8,8	8,8-16,6	16,6-27,7	27-39	31-56	56-58	58-73	73-84	84-112	111-156	155-195	194-279	275-390	432-544
Dimenzije zagrijača vertikalna izvedba / Dimensions of the vertical heater design															
A	mm	1200	1500	1900	1575	2150	2300	2300	2580	2970	3400	3600	3600	5150	6250
ØB	mm	720	790	950	1228	1150	1150	1280	1300	1450	1680	1680	2300	2380	2420
C	mm	1350	1650	2130	1800	2350	2550	2400	2850	3250	3750	3980	3900	5000	6800
D	mm	1080	1140	1280	1495	1500	1500	1660	1750	1940	2400	2400	2700	2760	2480
ØE	mm	150	200	200	250	250	250	300	300	350	450	450	500	756x300	1240x240
F	mm	-	-	-	-	1600	1600	1750	1750	2590	2360	2360	3300	3360	2950
G	mm	-	-	-	-	3150	3300	3300	3580	3970	4450	4650	4750	5800	7250
Težina/Weight	kg	300	450	1100	1250	1520	1600	1850	2080	3100	4550	4650	7000	9900	11900
Dimenzije zagrijača horizontalna izvedba / Dimensions of the horizontal heater design															
H	mm	1400	1400	1400	1450	1450	1500	1600	1760	1800	1800	2350	2800	2800	2800
ØB	mm	720	790	950	1228	1150	1150	1280	1300	1450	1680	1680	2300	2380	2420
I	mm	1300	1300	1330	1350	1400	1400	1400	1700	1700	1700	2100	2600	2600	2600
J	mm	890	855	775	686	760	775	810	760	925	810	1300	1500	1460	1440
ØE	mm	150	200	200	250	250	250	300	300	350	450	450	500	756x300	1240x240
K	mm	900	1000	1200	1400	1450	1450	1550	1550	1650	1800	2100	2700	2800	3000
L	mm	1500	1900	2500	2000	2850	2800	2800	3100	3500	4000	4580	4600	6000	7100
Težina/Weight	kg	400	550	1100	1300	1550	1700	1950	2000	3200	4400	4520	7000	10100	12300

Napomena/Remark:

- * Stupanj iskorištenja izražen je za režim rada temp. term. ulja 200/240°C
- * Efficiency level is expressed for the operation mode with thermal oil temperature of 200/240°C
- U težinu kotlova nije uračunato termičko ulje / Thermal oil is not calculated in heater weight
- Zadržano pravo izmjene / We reserve the right to change the terms



VKS 1000 - Praona Makarska



VKS 400 - Vektor Inženjering, Beograd



VKS 700 - Viomer, Grčka

