SMART **HEATING**
TECHNOLOGY
Bosnia



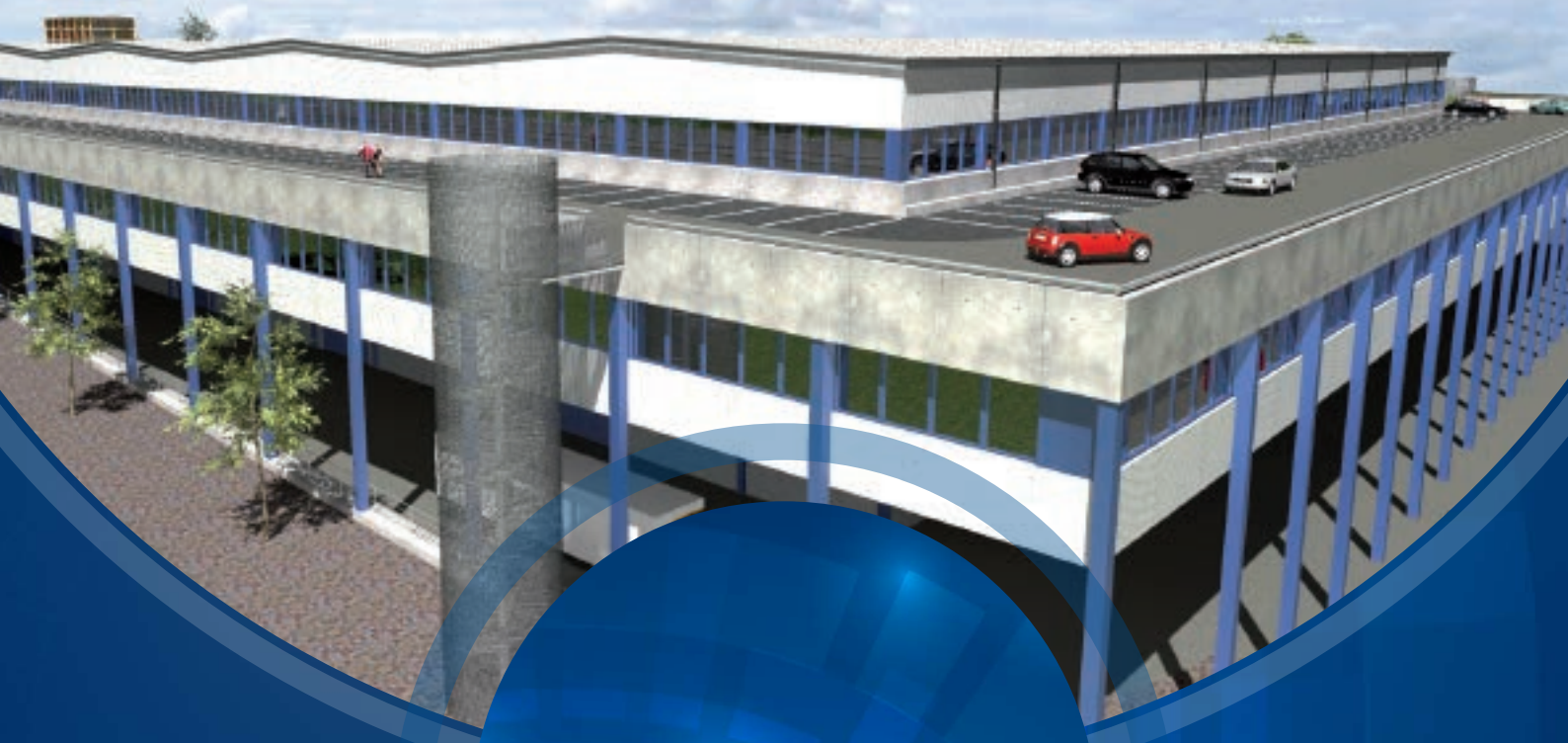
SMART HEATING TECHNOLOGY

PROMOTIVNI MAGAZIN SA REFERENCAMA 2019/2020

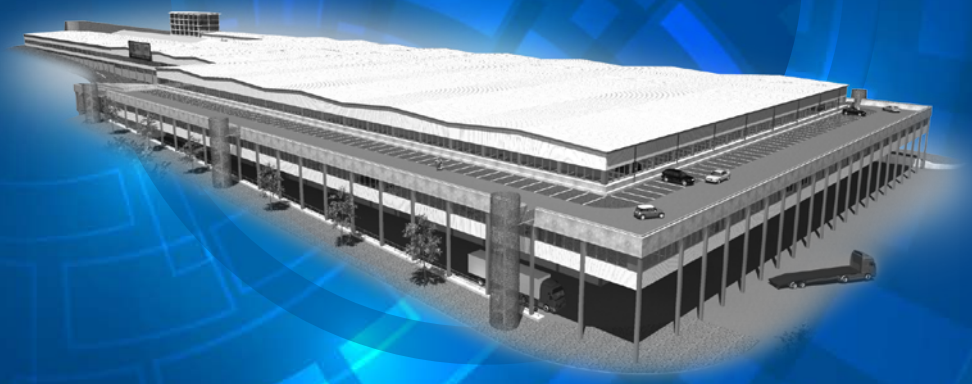
STC
SMART TRADING COMPANY

SMART HEATING TECHNOLOGY

Smart Painting



www.smartheating.cz



SMART INDUSTRIJSKI PARK

Ostrava–Bartovice, Republika Češka

Smart Industrijski Park nalazi se u blizini trećeg najvećeg grada Češke Republike, direktno je povezan sa međunarodnim autoputevima koji se mogu koristiti za efektivni transport robe do Austrije, Nemačke, Italije, Francuske i drugih evropskih zemalja

Velika prednost je i lokacija jednog od najvećih dobavljača sirovina – Arcelor Mittal Ostrava, koja se nalazi oko 1 km od Parka.

Isporuka pošiljke može biti osigurana sopstvenim kamionskim transportom.

SMART INDUSTRIJSKI PARK

Ostrava-Bartovice, Republika Češka

Pouzdani i ugledni dobavljači stranih i domaćih partnera u inženjerskoj proizvodnji. Kvalitet i fleksibilnost isporuke proizvoda i usluga od prototipa kroz male, srednje i velike zapremine.

OSNOVAN:	**2001**
PROIZVODNI PROSTOR:	**18 000 m²**
BROJ ZAPOSLENIH:	**300**

KOMPANIJE „POD JEDNIM KROVOM“

SMART **HEATING** TECHNOLOGY



* Sastav ovog goriva se testira!

SMART HEATING TECHNOLOGY s.r.o.

- Projektant i proizvođač kompletnih rešenja za grejanje i prateće opreme
- Automatski kotlovi na biomasu Smart 60 – 100 kW
- Automatski kotlovi na biomasu Smart 150 – 500 – 1500 kW
- Mobilne kotlarnice, montirane u kontejnerima
- Specijalni sistemi za transport goriva i rešenja za silose
- Specijalni sistemi za merenje i kontrolu grejnih krugova
- Specijalni filteri
- Proizvođač OEM proizvoda





Efikasnost 96 %
Daljinska kontrola i upravljanje preko mobilnog telefona i interneta

TEHNIČKI PODACI SMART KOTLOVA										
Oznaka		150	180	220	250	300	350	400	450	500
Nominalna snaga Ns	kW	150	180	220	250	300	350	400	450	500
Delimična snaga Ds	kW	40	45	55	65	75	90	100	115	140
Efikasnost kotla pri Ns	%	95	95	95	95	95	95	95	95	95
Efikasnost kotla pri Ds	%	96	96	96	96	96	96	96	96	96
Klasa kotla		5	5	5	5	5	5	5	5	5







SMART TRADING COMPANY

SMART TRADING COMPANY s.r.o.

- Proizvođač širokog spektra mehaničkih komponenti od lima na CNC tehnologiji:
- PTT ormani (unutrašnji /spoljašnj)
- Kućišta i mehaničke komponente za elektroniku
- Ramovi, delovi od lima, komponente za energetiku i telekomunikacije
- Elektortehničke komponente od bakra
- Industrijski sistemi polica za skladištenje
- Razne obloge kotlova









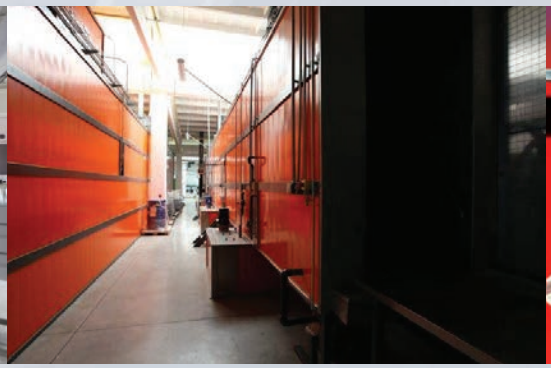


Smart Painting

SMART PAINTING s.r.o.

- Praškasto farbanje sa kontinuiranom, potpuno automatizovanom linijom
- Praškasto farbanje na 6 manualnih radnih mesta
- Sito štampa
- Mokro farbanje
- Sečena grafika (samolepljive folije)







Ostali proizvodni procesi “pod jednim krovom”:

- Zavarivanje i brušenje (TIG, MIG metode, tačkasto zavarivanje, robotsko lasersko zavarivanje)
- Bušenje, izrezivanje navoja, struganje, glodanje, brušenje površina
- Spajanje delova (polu-automatsko pod pritiskom, zakivanje...)
- Završni montažni radovi, izolacija i zaptivanje
- Kompletna obrada bakarnih delova
- Aplikacija zaštitnih folija na limove
- Izrada čvrstog alata (presa od 160 tona)
- Tretmani površine: praškasto i mokro farbanje, cinkovnje, kalajisanje, niklovanje, anodizacija
- 3D vizualizacija i dizajn

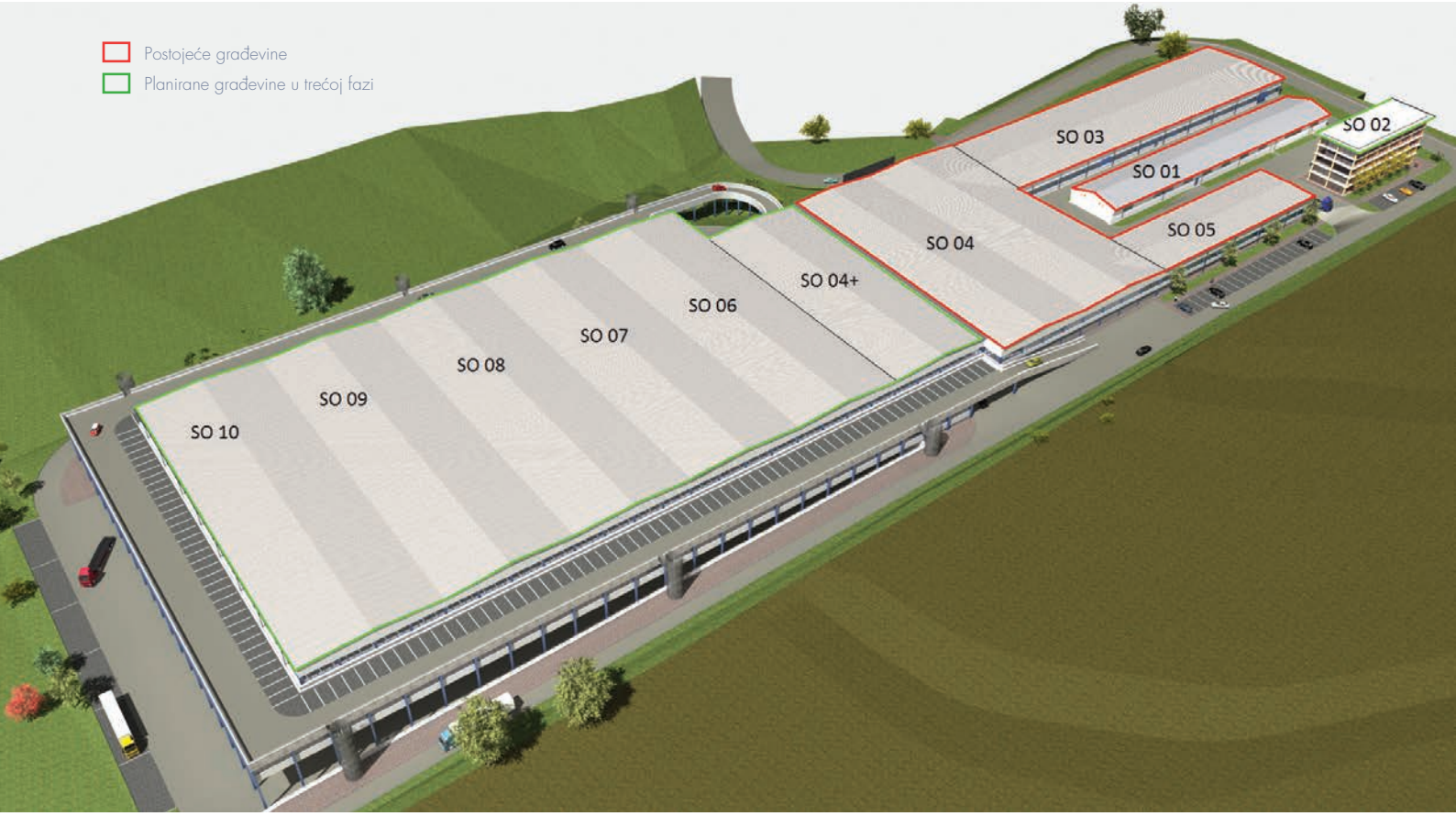
SMART **HEATING**
TECHNOLOGY
Bosnia







PLANOVI BUDUĆEG PROŠIRENJA



SMART HEATING TECHNOLOGY s.r.o.
U Statku 653/24, 717 00 Ostrava-Bartovice
Češka
www.SmartHeating.cz

Za više informacija o tehničkim rešenjima i cenama,
obratite se našoj službi prodaje:
Telefon: +420 777 960 560
+420 734 751 655, +420 777 258 481
Email: Sales@SmartHeating.cz
Info@SmartHeating.cz

Partner:

SMART **HEATING** TECHNOLOGY

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Čistoća prirode
Ušteda klijentima
Komfor korisnicima



Automatski kotlovi na biomasu

SMART 150–500–1500 kW

▪ Potpuno automatski, ekološki kotlovi sa odličnim performansama ▪ Fleksibilno tehničko rešenje
▪ Različite vrste goriva ▪ Ekonomski i ekološki ▪ 9 vrsta kotlova
▪ Efikasnost 96 % ▪ Podešavanja izlazne snage 30-100 % ▪ Lambda sonda
▪ Opcija sa keramičkim gorionikom ▪ Opcija sa vibrirajućom pločom gorionika
▪ Minimalni zahtevi za održavanje i servis ▪ Regulacija grejnih krugova
▪ Kaskadna instalaciona rešenja ▪ Daljinska kontrola i upravljanje preko mobilnog telefona i interneta
▪ Mobilna rešenja u kontejneru ▪ Specijalna oprema za kotlove

AUTOMATSKI KOTLOVI NA BIOMASU

SMART 150–500–1500 kW







Novi dizajn kotla ➔



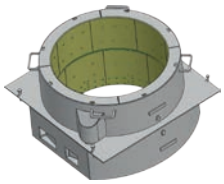




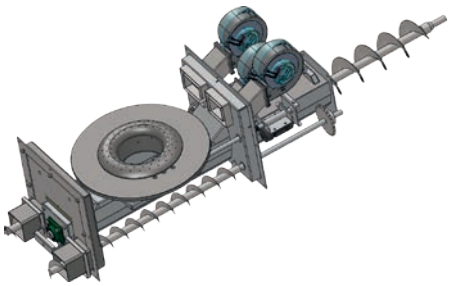
* Sastav ovog goriva se testira!

Novi elementi ➔

Keramički gorionik



Vibrirajuća ploča gorionika



Moguće primene SMART kotlova ➔

- Stambene zgrade
- Višenamenski objekti
- Tržni centri
- Sportski kompleksi
- Proizvodni pogoni, industrijski objekti i skladišni prostor
- Objekti za poljoprivredu, hortikulturu, ribarstvo
- Hoteli / Moteli / Wellness centri / Bazeni
- Sportske arene
- Opštinske zgrade
- Škole, bolnice, policija i vojni kompleksi
- Gradske četvrti

U saradnji sa:

SIEMENS

CE

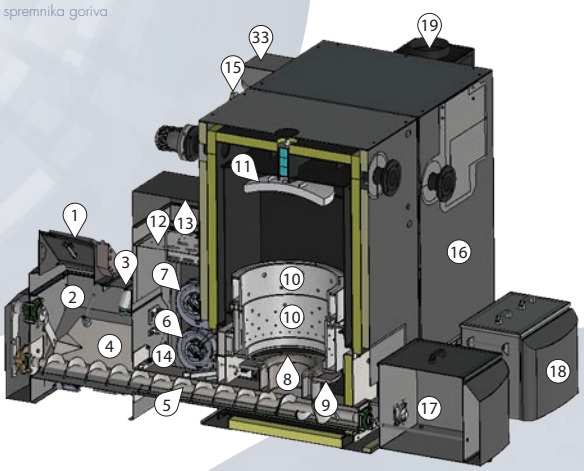
TÜV SÜD

ČSN-EN 303.5/2013

ISO 9001:2009

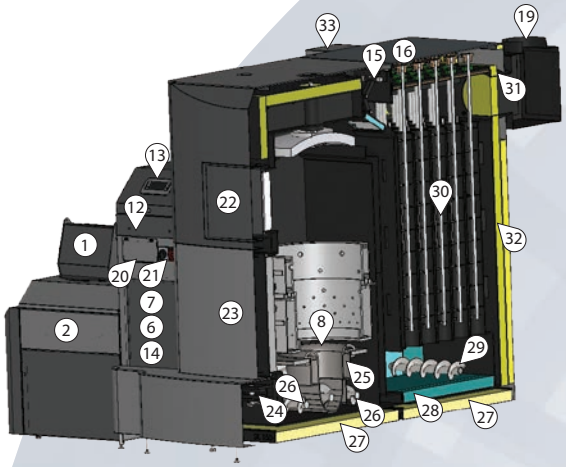
Smart 300-500 kW – Frontalni presek

1. Razdelni poklopac između ulaznog kanala i spremnika goriva
2. Spremnik goriva
3. Senzor nivoa goriva
4. Pokretni pod spremnika goriva
5. Puž za transport goriva
6. Primarni ventilator
7. Sekundarni ventilator
8. Prsten primarnog gorionika
9. Rešetka / Vibrirajuća ploča
10. Donji/gornji prsten gorionika
11. Vatrostalna keramika
12. Upravljačka jedinica Siemens
13. Poklopac upravljačke jedinice sa displejem
14. Oprema
    – Pištolj za paljenje
    – Mehanizam za hitno gašenje
    – Bezbednosni senzor toplote
15. Zaštitni poklopac izmenjivača
16. Izmenjivač toplote sa turbolatorima
17. Posuda za pepeo ognjišta
18. Posuda za pepeo izmenjivača - Opciono
19. Produžetak dimnjaka





Smart 300-500 kW – Bočni presek



20. Osigurači
21. Glavni prekidač
22. Mala servisna vrata
23. Velika servisna vrata
24. Rešetka / Vibrirajuća ploča
25. Kanal primarnog vazduha
26. Puž za izbacivanje pepela
27. Donja izolacija
28. Donja izolacija izmenjivača
29. Puž za izbacivanje pepela iz izmenjivača - opciono
30. Turbulatori
31. Lambda sonda
32. Dvostruka izolacija kotla
33. Pogonski motor turbulatora

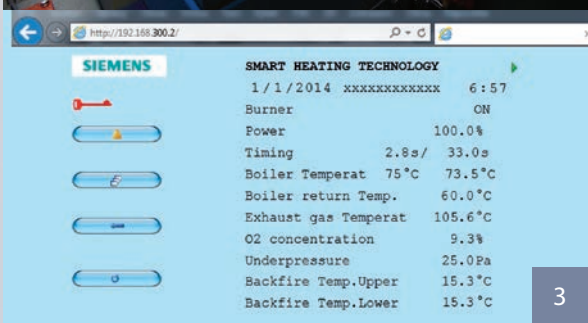
Daljinska kontrola i upravljanje preko mobilnog telefona i interneta
Mobilna rešenja u kontejneru
Konverter jedinica

KONVERTER JEDINICA	
1, GJ = 1000 MJ	
1, GJ = 277, 778 kVh	1, GJ = 0,278 MVh
1, GJ = 238 846 kcal	

GORIVO - Kalorijska vrednost
1 kg – Drveni pelet = 16,5–18,5 MJ = 4,6–5,1 kVh
1 kg – Lignit = 10,5–17,2 MJ = 2,9–4,8 kVh
1 kg – Drvena sečka sa vlagom 10 % = 16,4 MJ = 4,6 kVh
1 kg – Drvena sečka sa vlagom 20 % = 14,3 MJ = 4,0 kVh
1 kg – Drvena sečka sa vlagom 30 % = 12,2 MJ = 3,4 kVh
1 kg – Drvena sečka sa vlagom 40 % = 10,1 MJ = 2,8 kVh
1 m^3 – Prirodni gas = 37,82 MJ = 10,5 kVh







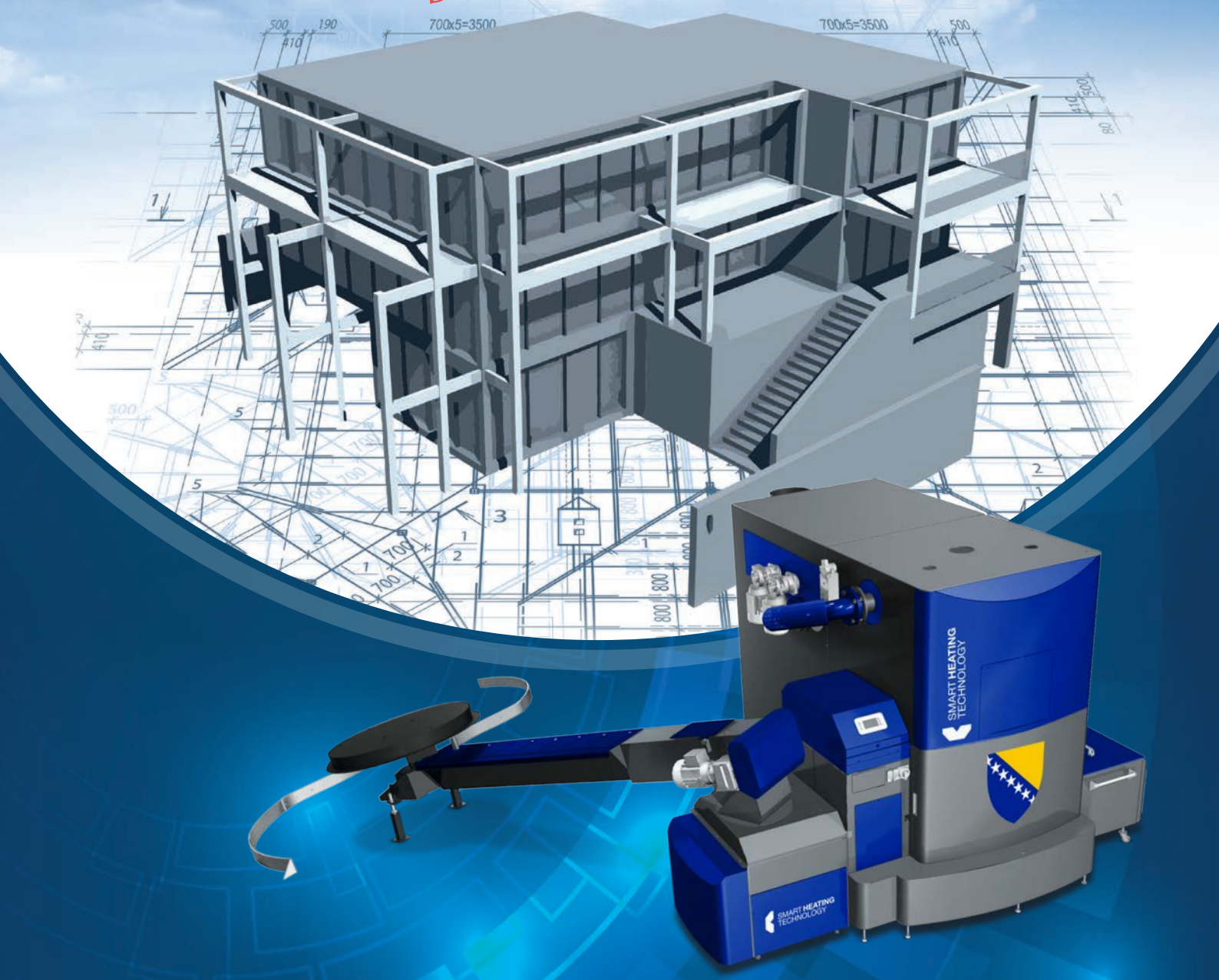
KARAKTERISTIKE SMART KOTLOVA											
Tehnički podaci kotla											
Oznaka		150	180	200	220	250	300	350	400	450	500
Nominalna snaga Ns	kW	150	180	199	220	250	300	350	400	450	500
Delimična snaga Ds	kW	40	45	50	55	65	75	90	100	115	140
Efikasnost kotla pri Ns	%	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
Klasa kotla		5	5	5	5	5	5	5	5	5	5
Voda											
Zapremina vode	l	380	420	460	460	500	690	740	790	850	900
Prečnik priključka za vodu	"	3	3	3	3	3	4	4	4	4	4
Prečnik priključka za vodu	DN	80	80	80	80	80	100	100	100	100	100
Hidraulični gubici pri temperaturnom gradientu od 20 °	mbar	65	73	80	80	87	95	102	110	122	130
Temperatura kotla	°C	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*
Minimalna temperatura povratne vode	°C	55	55	55	55	55	55	55	55	55	55
Maksimalni radni pritisak	bar	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Probni pritisak	bar	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Temperatura ognjište	°C	900-1100									
Pritisak u ognjištu	mbar	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04
Potreban protok vazduha u dimnjaku	mbar	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Potreba za veštačkim protokom vazduha u dimnjaku		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperatura dimnih gasova pri NS	°C	96,6	97,2	104,9	98	96,6	99,6	99,3	98,9	98,2	97,2
Temperatura dimnih gasova pri Ds	°C	63,1	63,1	72,4	63,1	63,1	63,1	62,9	62,7	62,4	62,2
Prečnik cevi dimnjaka	mm	220	220	220	220	220	300	300	300	300	300
Prečnik dimnjaka	mm	250	250	250	250	250	350	350	350	350	350
Klasifikacija goriva prema normi EN 14961											
Drveni pelet - C1	Testirano gorivo	D6, M10, A1,5, DU90,0									
Drvena sečka - B1		P45, M30, A3.0									

** Kotao može da radi na temperaturi vode od 90 ° C samo kada se ispune posebni uslovi instalacije

SMART **HEATING** TECHNOLOGY

Bosnia

Čistoća prirode
Ušteda klijentima
Komfor korisnicima



AUTOMATSKI KOTLOVI NA BIOMASU

SMART 150–500 kW

Kompletna tehnička specifikacija

- Dimenzije i težine kotlova SMART 150-250 kW
- Dimenzije i težine kotlova SMART 300-500 kW
- Servisne zone kotlova SMART 150-500 kW
- Tehničke specifikacije kotlova SMART 150-500 kW
- Sertifikovani radni parametri kotlova SMART 150-500 kW

AUTOMATSKI KOTLOVI NA BIOMASU

SMART 150–250 kW

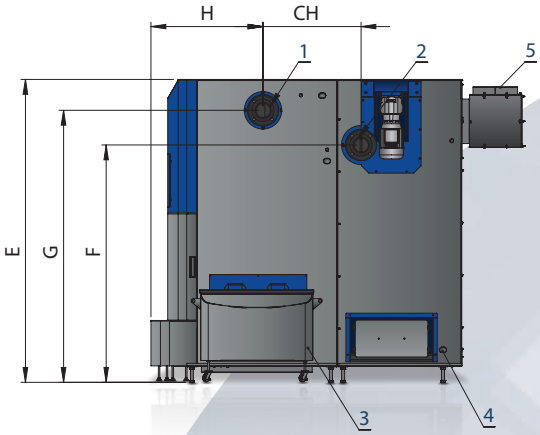
SMART HEATING TECHNOLOGY Bosnia

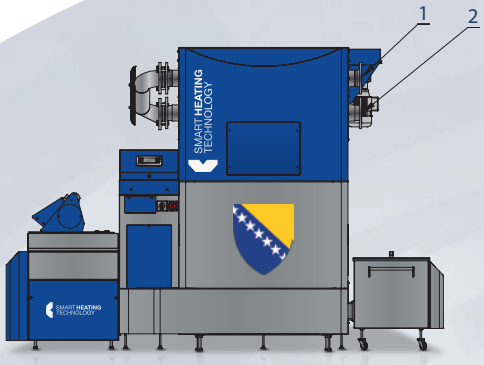
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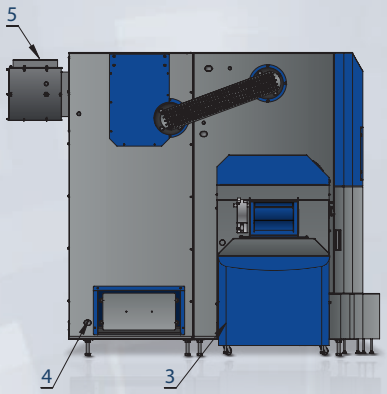
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Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

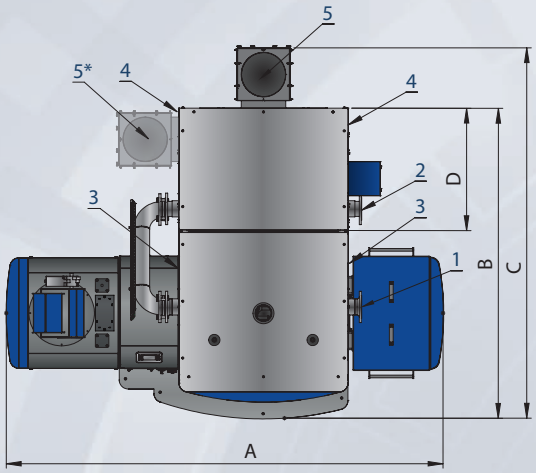
DIMENZIJE I TEŽINE KOTLOVA SMART 150-250 KW



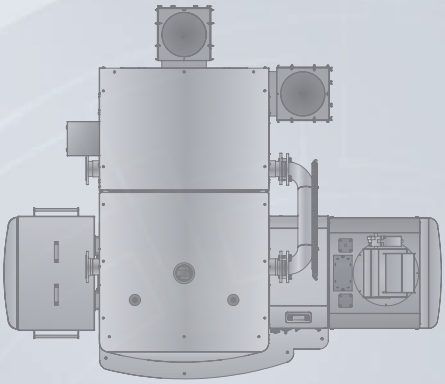




1. Izlaz vode DN80 / PN6
2. Ulaz vode DN80 / PN6
3. Ulazno / izlazni ventil vode ložišta 3/4"
4. Ulazno / izlazni ventil vode izmenjivača toplote 3/4"
5. Prečnik dimnjaka 220 mm
- Opcija za ograničene prostore



Leva varijanta kotla



Desna varijanta kotla

	150	180	200	250
A	2825	2825	2825	2825
B	1750	1870	1990	2110
C	2160	2280	2400	2520
D	580	700	820	940
E	1820	1820	1820	1820
F	1345	1345	1345	1345
G	1570	1570	1570	1570
H	715	715	715	715
CH	600	600	600	600

TEŽINE		
Ložište 150 – 250 kW	1 210 kg	Ukupna težina
Izmenjivač 150	1 050 kg	2 260 kg
Izmenjivač 180	1 150 kg	2 360 kg
Izmenjivač 200	1 200 kg	2 410 kg
Izmenjivač 250	1 300 kg	2 510 kg

POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



AUTOMATSKI KOTLOVI NA BIOMASU

SMART 300–500 kW

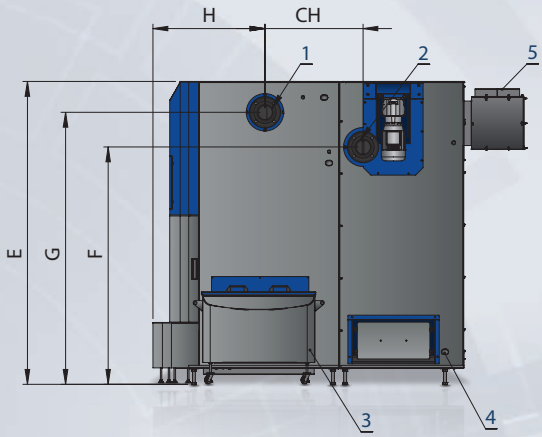
SMART HEATING TECHNOLOGY Bosnia

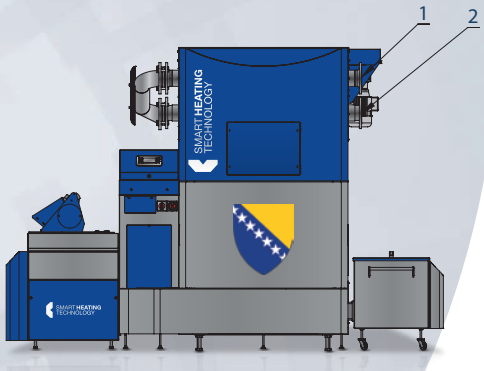
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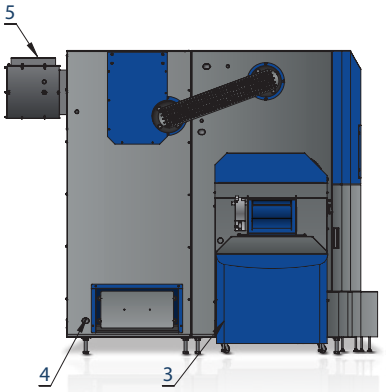
ISO 9001:2009

Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

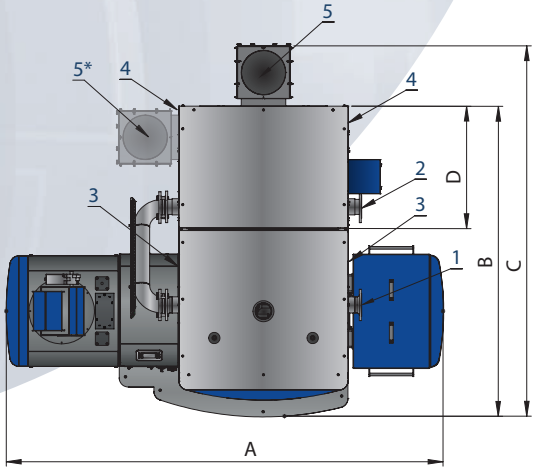
DIMENZIJE I TEŽINE KOTLOVA SMART 300-500 KW



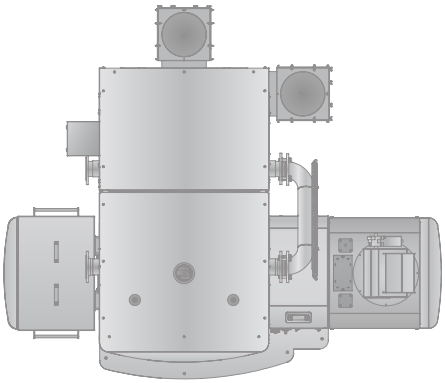




1. Izlaz vode DN80 / PN6
2. Ulaz vode DN80 / PN6
3. Ulazno / izlazni ventil vode ložišta 3/4"
4. Ulazno / izlazni ventil vode izmenjivača toplote 3/4"
5. Prečnik dimnjaka 220 mm
- * Opcija za ograničene prostore



Leva varijanta kotla



Desna varijanta kotla

	300	350	400	450	500
A	2940	2940	2940	2940	2940
B	2080	2200	2320	2440	2560
C	2480	2600	2720	2840	2960
D	820	940	1060	1180	1300
E	1995	1995	1995	1995	1995
F	1560	1560	1560	1560	1560
G	1790	1790	1790	1790	1790
H	750	750	750	750	750
CH	655	655	655	655	655

TEŽINE		
Ložište 300 – 500 kW	1 550 kg	Ukupna težina
Izmenjivač 300	1 500 kg	3 050 kg
Izmenjivač 350	1 600 kg	3 150 kg
Izmenjivač 400	1 700 kg	3 250 kg
Izmenjivač 450	1 800 kg	3 350 kg
Izmenjivač 500	1 950 kg	3 500 kg

POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



AUTOMATSKI KOTLOVI NA BIOMASU

SMART 150–500 kW

SMART HEATING TECHNOLOGY Bosnia

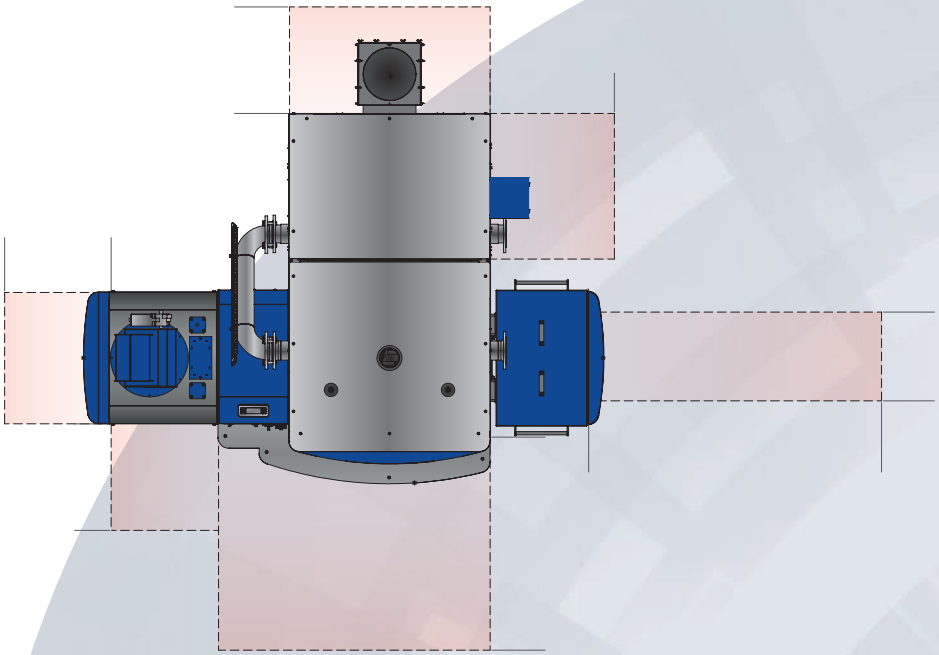
ČSN-EN 303.5/2013

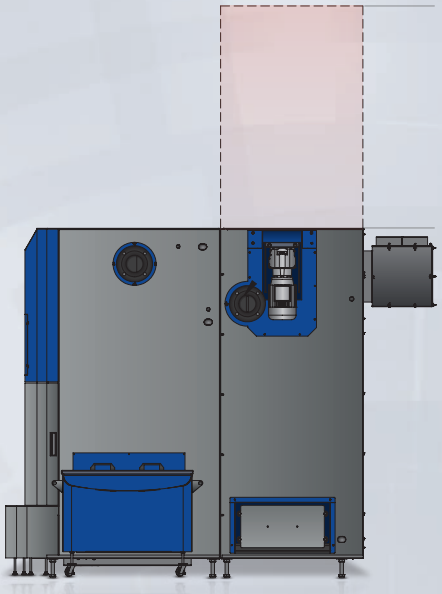
ISO 9001:2009

Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

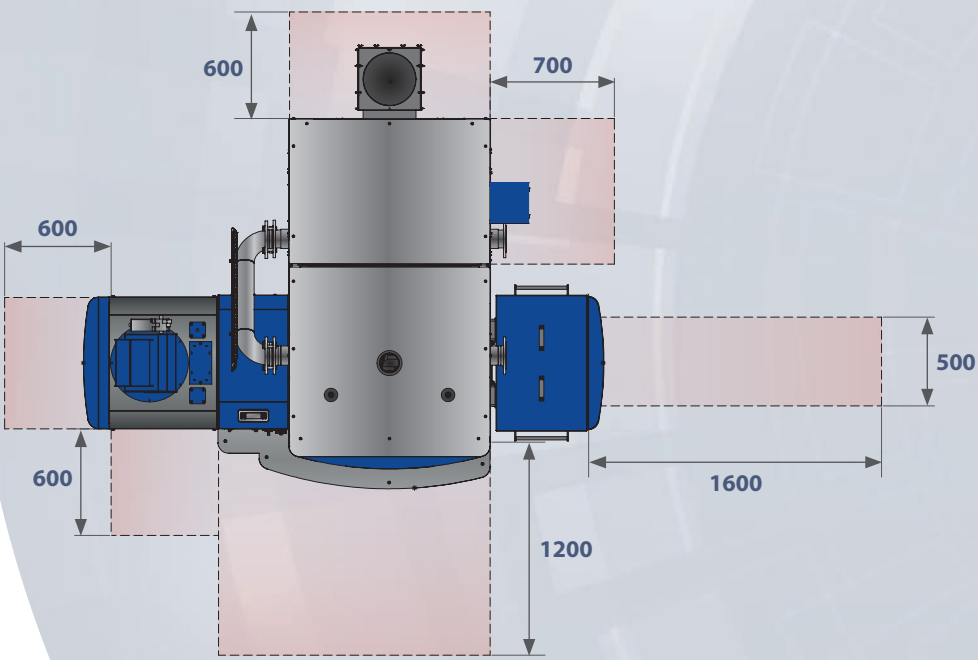
SERVISNE ZONE KOTLOVA 150–500 kW

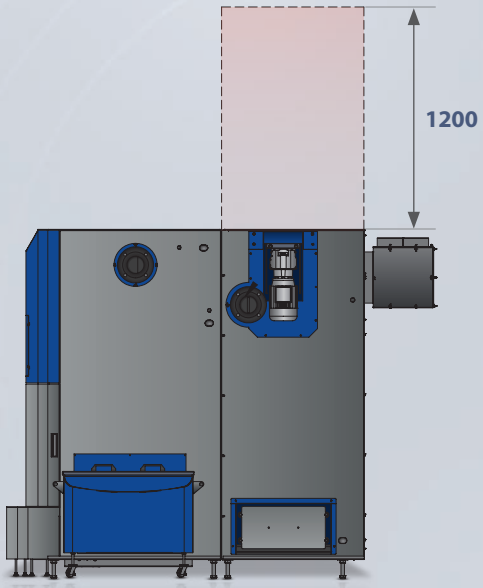
SMART 150–250 kW





SMART 300–500 kW





POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



AUTOMATSKI KOTLOVI NA BIOMASU

SMART 150–500 kW

SMART HEATING TECHNOLOGY Bosnia

ČSN-EN 303.5/2013

ISO 9001:2009

TEHNIČKE SPECIFIKACIJE KOTLOVA SMART 150–500 kW

Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

KARAKTERISTIKE SMART KOTLOVA											
Tehnički podaci kotla											
Oznaka		150	180	200	220	250	300	350	400	450	500
Nominalna snaga Ns	kW	150	180	199	220	250	300	350	400	450	500
Delimična snaga Ds	kW	40	45	50	55	65	75	90	100	115	140
Efikasnost kotla pri Ns	%	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
Klasa kotla		5	5	5	5	5	5	5	5	5	5
Voda											
Zapremina vode	l	380	420	460	460	500	690	740	790	850	900
Prečnik priključka za vodu	"	3	3	3	3	3	4	4	4	4	4
Prečnik priključka za vodu	DN	80	80	80	80	80	100	100	100	100	100
Hidraulični gubici pri temperaturnom gradientu od 20 °	mbar	65	73	80	80	87	95	102	110	122	130
Temperatura kotla	°C	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*
Minimalna temperatura povratne vode	°C	55	55	55	55	55	55	55	55	55	55
Maksimalni radni pritisak	bar	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Probni pritisak	bar	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Temperatura ognjište	°C	900-1100									
Pritisak u ognjištu	mbar	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04
Potreban protok vazduha u dimnjaku	mbar	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Potreba za veštačkim protokom vazduha u dimnjaku		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperatura dimnih gasova pri NS	°C	96,6	97,2	104,9	98	96,6	99,6	99,3	98,9	98,2	97,2
Temperatura dimnih gasova pri Ds	°C	63,1	63,1	72,4	63,1	63,1	63,1	62,9	62,7	62,4	62,2
Prečnik cevi dimnjaka	mm	220	220	220	220	220	300	300	300	300	300
Prečnik dimnjaka	mm	250	250	250	250	250	350	350	350	350	350
Klasifikacija goriva prema normi EN 14961											
Drveni pelet - C1	Testirano gorivo	D6, M10, A1,5, DU90,0									
Drvena sečka - B1		P45, M30, A3.0									
Električne instalacije											
Električni priključak		3+N+PE 50Hz 230/400V TN-C-S									
Motor transportera goriva P	W	550	550	550	550	550	550	550	550	550	550
Motor puža W	W	550	550	550	550	550	550	550	550	550	550
Motor čistača izmenjivača (i) W	W	550	550	550	550	550	2 x 550	2 x 550	2 x 550	2 x 550	2 x 550
Motor za uklanjanje pepela W	W	550	550	550	550	550	550	550	550	550	550
Ventilator primarnog vazduha W	W	66	66	66	66	66	66	66	66	66	66
Ventilator sekundarnog vazduha 1 W	W	66	66	66	66	66	170	170	170	170	170
Ventilator sekundarnog vazduha 2 W	W	66	66	66	66	66	170	170	170	170	170
Izduvni ventilator dimnjaka W	W	300	300	300	300	300	1100	1100	1100	1100	1100
Mehanizam razdelnog poklopca Š	W	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Ukupno P	W	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Total	W	4304,5	4304,5	4304,5	4304,5	4304,5	4762,5	4762,5	4762,5	4762,5	4762,5

*Kotao može da radi na temperaturi vode od 90 ° C samo kada se ispune posebni uslovi instalacije

POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



AUTOMATSKI KOTLOVI NA BIOMASU
SMART 150–200 kW

SMART HEATING TECHNOLOGY Bosnia

ČSN-EN 303.5/2013
ISO 9001:2009

SERTIFIKOVANI RADNI PARAMETRI KOTLOVA SMART 150-200 KW

Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

AUTOMATSKI KOTLOVI NA BIOMASU SMART 150–200 kW		SMART 150				SMART 180				SMART 200			
		Drveni pelet		Drvena sečka		Drveni pelet		Drvena sečka		Drveni pelet		Drvena sečka	
		Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost
Izmerene vrednosti													
Nominalni toplotni kapacitet	kW	150	150	150	150	180	180	180	180	199	199	199	199
Temperatura dimnih gasova	°C	116,1	72,4	96,6	63,1	111,4	70,8	97,2	63,1	96,1	73,1	104,9	72,4
Potrošnja goriva	kg/hour	36,30	9,78	37,18	9,45	42,50	11,10	44,80	11,30	42,60	12,48	50,60	14,50
Temperatura ulazne vode	°C	60,2	67,1	60,3	62,4	59,5	65,7	60,0	61,4	57,8	67,2	55,0	71,3
Temperatura izlazne vode	°C	80,5	85,2	78,8	79,2	79,1	83,3	78,0	78,4	73,0	82,6	77,1	79,0
Temperatura vode za hlađenje	°C	9,6	11,1	9,6	11,0	9,6	11,1	9,6	11,0	11,1	7,8	10,6	11,5
Protok vode za hlađenje	m^3/hod	6,733	2,033	7,080	1,950	8,433	2,401	9,034	2,304	2,695	0,650	2,673	0,755
Protok dimnjaka	Pa	125,0	35,0	125,0	35,0	126,0	33,0	126,0	33,0	130,0	30,0	130,0	30,0
Temperatura okoline	°C	24,0	26,3	24,2	22,6	24,0	25,3	25,0	23,0	25,2	24,9	24,1	26,2
Relativna vlažnost vazduha	%	45,3	44,7	38,6	37,2	45,0	44,5	40,0	39,0	42,3	41,1	41,0	40,0
Atmosferski pritisak	kPa	99,23	99,24	99,10	99,20	99,00	99,25	99,00	99,22	98,92	98,95	99,07	99,07
Analiza dimnih gasova													
Kiseonik O_2	%	8,12	12,66	8,08	11,40	7,92	12,39	7,89	11,46	8,02	12,71	8,02	12,71
Ugljen-dioksid CO_2	%	11,37	7,28	11,61	8,70	11,43	7,65	11,73	8,65	11,79	7,53	11,79	7,53
Ugljen-monoksid CO	ppm	46	175	100	146	49	171	93	153	58	181	58	181
Viši ugljovodonici OGC	ppm	4	2	3	5	4	3	3	5	7	4	7	4
Azotni oksidi Nox	ppm	81	47	83	55	81	49	84	54	65	38	65	38
Prašina	mg/m^3	28	17	52	41	29	44	47	41	29	18	51	44
O2 = 10%													
Ugljen monoksid CO	mg/m^3	49	289	106	209	51	275	97	220	62	301	112	244
Viši ugljovodonici OGC	mg/m^3	2	1	1	3	2	2	1	3	10	8	2	4
Azotni oksidi Nox	mg/m^3	143	126	144	130	140	127	144	127	113	102	151	120
Prašina	mg/m^3	24	23	44	47	25	25	39	47	25	25	44	51
Pomoćne vrednosti sagorevanja (čvrsta goriva)													
Maseni protok gasova	kg/sec	0,109	0,044	0,099	0,033	0,126	0,047	0,117	0,040	0,155	0,053	0,148	0,066
Stehiometrijska vrednost kiseonik	m^3/kg	0,957	0,957	0,832	0,832	0,957	0,957	0,832	0,832	0,949	0,948	0,848	0,848
Stehiometrijska vrednost vazduha	m^3/kg	4,559	4,556	3,963	3,960	4,559	4,556	3,963	3,958	4,520	4,512	4,037	4,036
Stehiometrijski volumen suvih dimnih gasova	m^3/kg	4,448	4,445	3,884	3,881	4,448	4,445	3,884	3,879	4,445	4,438	3,949	3,948
Stehiometrijski vazduh	m^3/kg	1,61	2,48	1,61	2,16	1,59	2,41	1,59	2,19	1,61	2,51	1,60	2,50
Volumen suvih dimnih gasova	m^3/kg	7,436	11,573	6,474	8,622	7,400	11,107	6,397	8,669	7,411	11,553	6,435	10,048
Volumen H2O u vazduha za sagorevanje	m^3/kg	0,102	0,177	0,076	0,089	0,100	0,164	0,081	0,114	0,101	0,150	0,081	0,140
Volumen H2O u dimnim gasovima	m^3/kg	0,956	1,032	0,922	0,935	0,954	1,019	0,927	0,942	0,867	0,916	0,956	1,015
Maksimalna količina CO2	%	19,01	19,01	19,37	19,37	19,01	19,01	19,40	19,40	19,60	19,66	19,22	19,22
Izračunate vrednosti toplote													
Gubici toplote preko dimnih gasova (dimnjak)	%	6,4	4,7	4,8	3,5	6,0	4,5	4,8	3,5	4,5	4,5	5,3	4,5
Gubici gasa zbog nesagorevanja	%	0,0	0,2	0,1	0,1	0,0	0,2	0,1	3,5	0,0	0,2	0,0	0,2
Gubici zbog mehaničkog nesagorevanja	%	0,1	0,1	0,3	0,3	0,1	0,1	0,3	0,1	0,1	0,2	0,0	0,1
Gubici zbog prenosa toplote u okolinu	%	0,8	1,1	0,8	2,1	0,8	1,2	0,8	0,4	0,6	0,9	0,6	0,7
Ukupni gubici	%	7,3	6,1	6,0	6,0	6,9	6,0	5,9	5,9	5,2	5,8	6,0	5,4
Efikasnost - indirektna metoda	%	92,7	93,9	94,0	94,0	93,1	94,0	94,1	94,1	94,8	94,2	94,0	94,6
Toplotna snaga	kW	167,0	45,0	158,9	40,4	195,4	51,1	191,7	48,3	203,3	59,5	216,8	62,1
Toplotni kapacitet	kW	159,2	43,0	152,0	38,4	186,1	48,8	183,0	46,0	193,7	56,6	206,2	59,3
Nesigurnost pri određivanju toplotnog kapaciteta	%+/-	6,7	1,8	6,4	1,6	7,8	2,0	7,7	1,9	8,1	2,4	8,7	2,5
Efikasnost - direktna metoda	**%**	**95,3**	**95,6**	**95,6**	**95,1**	**95,0**	**95,0**	**95,5**	**95,2**	**95,3**	**95,1**	**95,1**	**95,5**
Kapacitet / nominalna snaga	%	106,1	28,7	101,3	25,6	103,4	27,1	101,5	25,6	97,3	28,4	103,6	29,8

▪ Mereno ▪ Interpolacija u skladu sa EN303.5 deo 5.3.1

POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



AUTOMATSKI KOTLOVI NA BIOMASU

SMART 250–350 kW

SMART HEATING TECHNOLOGY Bosnia

ČSN-EN 303.5/2013

ISO 9001:2009

Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

SERTIFIKOVANI RADNI PARAMETRI KOTLOVA SMART 250–350 kW

AUTOMATSKI KOTLOVI NA BIOMASU SMART 250–350 kW		SMART 250				SMART 300				SMART 350			
		Drveni pelet		Drvena sečka		Drveni pelet		Drvena sečka		Drveni pelet		Drvena sečka	
		Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost
Izmerene vrednosti													
Nominalni toplotni kapacitet	kW	250	250	250	250	300	300	300	300	350	350	350	350
Temperatura dimnih gasova	°C	100,4	66,9	98,6	63,1	92,5	64,2	99,6	63,1	93,8	63,1	99,3	62,9
Potrošnja goriva	kg/hour	56,90	14,20	62,70	15,60	67,15	16,42	75,50	18,70	78,90	18,50	86,90	20,80
Temperatura ulazne vode	°C	57,9	62,4	59,4	59,1	56,7	60,0	59,0	57,4	58,4	60,6	59,3	57,7
Temperatura izlazne vode	°C	75,7	78,9	76,1	76,4	73,3	75,8	74,7	75,0	75,5	76,1	75,0	74,5
Temperatura vode za hlađenje	°C	9,6	11,0	9,6	11,0	9,6	11	9,6	11,0	9,5	10,7	9,6	11,0
Protok vode za hlađenje	m^3/hod	12,400	3,300	13,600	3,130	15,234	3,873	16,850	3,720	17,272	4,492	19,438	4,428
Protok dimnjaka	Pa	128,0	28,0	128,0	28,0	130,0	25,0	130,0	25,0	151,0	25,0	150,0	25,0
Temperatura okoline	°C	24,3	23,1	25,7	23,3	24,4	21,5	26,4	23,6	26,0	23,0	27,0	24,0
Relativna vlažnost vazduha	%	43,7	44,0	44,1	43,9	42,9	43,7	46,9	47,2	37,0	38,0	41,0	41,0
Atmosferski pritisak	kPa	99,21	99,30	99,10	99,30	99,20	99,30	99,10	99,30	99,20	99,30	99,07	99,22
Analiza dimnih gasova													
Kiseonik O_2	%	7,45	11,77	7,43	11,59	7,12	11,32	7,11	11,68	7,59	10,37	7,17	11,20
Ugljen-dioksid CO_2	%	11,56	8,51	12,10	8,53	11,66	9,13	12,35	8,44	11,46	9,61	12,15	8,88
Ugljen-monoksid CO	ppm	55	162	75	169	59	155	63	180	82	133	101	173
Viši ugljovodonici OGC	ppm	3	5	4	6	2	6	4	7	6	5	3	6
Azotni oksidi Nox	ppm	80	52	86	50	80	55	87	48	74	61	93	56
Prašina	mg/m^3	33	26	34	41	35	31	25	41	30	30	45	54
O2 = 10%													
Ugljen monoksid CO	mg/m^3	55	243	77	246	58	220	63	265	87	182	101	246
Viši ugljovodonici OGC	mg/m^3	1	3	2	4	1	4	2	4	3	3	2	4
Azotni oksidi Nox	mg/m^3	134	128	143	121	130	129	142	116	124	129	153	128
Prašina	mg/m^3	26	31	28	48	27	35	20	48	24	32	25	48
Pomoćne vrednosti sagorevanja (čvrsta goriva)													
Maseni protok gasova	kg/sec	0,167	0,055	0,160	0,055	0,196	0,060	0,191	0,066	0,236	0,064	0,224	0,070
Stehiometrijska vrednost kiseonik	m^3/kg	0,958	0,957	0,832	0,831	0,958	0,957	0,832	0,830	0,958	0,957	0,832	0,830
Stehiometrijska vrednost vazduha	m^3/kg	4,560	4,557	3,963	3,953	4,560	4,558	3,963	3,950	4,560	4,558	3,962	3,951
Stehiometrijski volumen suvih dimnih gasova	m^3/kg	4,449	4,446	3,883	3,874	4,449	4,446	3,883	3,871	4,449	4,447	3,882	3,872
Stehiometrijski vazduh	m^3/kg	1,54	2,25	1,54	2,25	1,50	2,14	1,50	2,23	1,56	1,99	1,51	2,19
Volumen suvih dimnih gasova	m^3/kg	7,315	10,021	6,217	8,779	7,254	9,245	6,088	8,857	7,388	8,843	6,191	8,481
Volumen H2O u vazduha za sagorevanje	m^3/kg	0,095	0,133	0,091	0,172	0,091	0,111	0,099	0,124	0,087	0,098	0,089	0,174
Volumen H2O u dimnim gasovima	m^3/kg	0,949	0,988	0,937	0,959	0,946	0,966	0,945	0,971	0,942	0,953	0,935	0,953
Maksimalna količina CO2	%	19,01	19,00	19,37	19,40	19,01	19,01	19,37	19,36	19,01	19,01	19,40	19,40
Izračunate vrednosti toplote													
Gubici toplote preko dimnih gasova (dimnjak)	%	5,2	4,0	4,7	3,5	4,6	3,6	4,7	3,5	4,7	3,3	4,7	3,3
Gubici gasa zbog nesagorevanja	%	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,1
Gubici zbog mehaničkog nesagorevanja	%	0,0	0,1	0,3	0,5	0,0	0,1	0,3	0,6	0,0	0,1	0,3	0,6
Gubici zbog prenosa toplote u okolinu	%	0,7	1,6	0,7	1,6	0,7	1,8	0,6	1,4	0,6	1,4	0,5	1,2
Ukupni gubici	%	6,0	5,8	5,7	5,7	5,4	5,6	5,5	5,5	5,3	4,9	5,4	5,1
Efikasnost - indirektna metoda	%	94,0	94,2	94,3	94,3	94,6	94,4	94,5	94,5	94,7	95,1	94,6	95,0
Toplotna snaga	kW	261,5	65,3	268,1	66,8	308,8	75,5	322,7	80,0	363,0	85,2	371,4	89,0
Toplotni kapacitet	kW	248,8	62,2	255,4	63,7	293,6	71,8	307,1	76,4	345,8	81,4	354,5	85,2
Nesigurnost pri određivanju toplotnog kapaciteta	%+/-	10,4	2,6	10,7	2,7	12,3	3,0	12,9	3,2	14,5	3,4	14,9	3,6
Efikasnost - direktna metoda	**%**	**95,0**	**95,0**	**95,3**	**95,4**	**95,1**	**95,0**	**95,2**	**95,5**	**95,3**	**95,5**	**95,4**	**95,7**
Kapacitet / nominalna snaga	%	99,5	24,9	102,0	25,5	97,9	23,9	102,4	25,5	98,8	23,3	101,6	24,7

▪ Mereno ▪ Interpolacija u skladu sa EN303.5 deo 5.3.1

POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



AUTOMATSKI KOTLOVI NA BIOMASU

SMART 400–500 kW

SMART HEATING TECHNOLOGY Bosnia

ČSN-EN 303.5/2013

ISO 9001:2009

SERTIFIKOVANI RADNI PARAMETRI KOTLOVA SMART 400–500 kW

Čistoća prirode ▪ Ušteda klijentima ▪ Komfor korisnicima

AUTOMATSKI KOTLOVI NA BIOMASU SMART 400–500 kW		SMART 400				SMART 450				SMART 500			
		Drveni pelet		Drvena sečka		Drveni pelet		Drvena sečka		Drveni pelet		Drvena sečka	
		Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost	Nominalna Vrednost	Minimalna Vrednost
Measured values													
Nominalni toplotni kapacitet	kW	400	400	400	400	450	450	450	450	500	500	500	500
Temperatura dimnih gasova	°C	95,1	62,0	98,9	62,7	96,3	60,9	98,6	62,4	97,6	59,8	98,2	62,2
Potrošnja goriva	kg/hour	90,70	20,60	98,30	22,90	102,48	22,74	109,60	25,00	114,26	24,85	121,00	27,12
Temperatura ulazne vode	°C	60,2	61,1	59,7	57,9	61,9	61,7	60,0	58,2	63,6	62,2	60,3	58,4
Temperatura izlazne vode	°C	77,8	76,5	75,4	74,1	80,0	76,8	75,7	73,6	82,2	77,1	76,0	73,1
Temperatura vode za hlađenje	°C	9,4	10,4	9,6	11,0	9,3	10,0	9,6	11,0	9,2	9,7	9,6	11,0
Protok vode za hlađenje	m^3/hod	19,311	5,110	22,025	5,135	21,349	5,729	24,613	5,843	23,387	6,347	27,200	6,550
Protok dimnjaka	Pa	173,0	25,0	170,0	26,0	194,0	25,0	190,0	26,0	215,0	25,0	210,0	26,0
Temperatura okoline	°C	27,0	24,0	28,0	24,0	29,0	25,7	28,5	24,6	30,2	27,1	29,2	24,9
Relativna vlažnost vazduha	%	32,0	33,0	35,0	35,0	27,0	28,0	29,5	28,6	21,1	22,8	23,7	22,4
Atmosferski pritisak	kPa	99,10	99,30	99,05	99,15	99,20	99,30	99,02	99,07	99,20	99,30	98,99	98,99
Analiza dimnih gasova													
Kiseonik O_2	%	8,06	9,43	7,24	10,73	8,52	8,48	7,30	10,25	8,99	7,53	7,36	9,77
Ugljen-dioksid CO_2	%	11,26	10,10	11,95	9,31	11,05	10,58	11,74	9,75	10,85	11,06	11,54	10,18
Ugljen-monoksid CO	ppm	105	111	139	167	128	89	176	160	151	67	214	153
Viši ugljovodonici OGC	ppm	9	3	2	6	13	2	1	5	16	0	0	4
Azotni oksidi Nox	ppm	68	67	100	65	62	72	106	73	56	78	112	81
Prašina	mg/m^3	25	29	66	67	19	28	86	79	14	27	106	92
O2 = 10%													
Ugljen monoksid CO	mg/m^3	116	144	140	227	144	106	178	207	173	68	216	188
Viši ugljovodonici OGC	mg/m^3	5	2	1	3	6	1	1	3	8	0	0	2
Azotni oksidi Nox	mg/m^3	118	130	164	139	111	130	174	151	105	130	185	162
Prašina	mg/m^3	20	29	30	48	17	25	34	48	13	22	39	48
Pomoćne vrednosti sagorevanja (čvrsta goriva)													
Maseni protok gasova	kg/sec	0,276	0,068	0,257	0,074	0,316	0,072	0,290	0,077	0,356	0,076	0,323	0,081
Stehiometrijska vrednost kiseonik	m^3/kg	0,958	0,957	0,832	0,830	0,958	0,957	0,831	0,830	0,958	0,957	0,831	0,830
Stehiometrijska vrednost vazduha	m^3/kg	4,560	4,559	3,961	3,951	4,560	4,559	3,960	3,952	4,560	4,559	3,959	3,952
Stehiometrijski volumen suvih dimnih gasova	m^3/kg	4,449	4,447	3,882	3,872	4,448	4,448	3,881	3,873	4,448	4,448	3,880	3,873
Stehiometrijski vazduh		1,62	1,85	1,52	2,08	1,67	1,70	1,52	1,96	1,73	1,55	1,53	1,85
Volumen suvih dimnih gasova	m^3/kg	7,521	8,442	6,294	8,106	7,655	8,040	6,396	7,730	7,788	7,638	6,499	7,354
Volumen H2O u vazduha za sagorevanje	m^3/kg	0,082	0,085	0,080	0,134	0,078	0,072	0,070	0,093	0,073	0,059	0,060	0,053
Volumen H2O u dimnim gasovima	m^3/kg	0,937	0,940	0,926	0,935	0,933	0,927	0,916	0,917	0,928	0,914	0,906	0,899
Maksimalna količina CO2	%	19,01	19,01	19,37	19,36	19,00	19,01	19,37	19,36	19,01	19,01	19,37	19,36
Izračunate vrednosti toplote													
Gubici toplote preko dimnih gasova (dimnjak)	%	4,8	3,0	4,7	3,2	4,8	2,6	4,6	3,0	4,9	2,3	4,6	2,8
Gubici gasa zbog nesagorevanja	%	0,1	0,1	0,1	0,1	0,1	0,0	0,1	0,1	0,1	0,0	0,1	0,1
Gubici zbog mehaničkog nesagorevanja	%	0,0	0,1	0,4	0,6	0,0	0,1	0,4	0,5	0,0	0,1	0,4	0,5
Gubici zbog prenosa toplote u okolinu	%	0,5	1,1	0,5	0,9	0,3	0,7	0,3	0,7	0,2	0,3	0,2	0,4
Ukupni gubici	%	5,3	4,2	5,4	4,6	5,2	3,4	5,3	4,2	5,2	2,7	5,2	3,7
Efikasnost - indirektna metoda	%	94,8	95,9	94,7	95,4	94,8	96,6	94,7	95,9	94,8	97,3	94,8	96,3
Toplotna snaga	kW	417,2	94,9	420,1	98,1	471,3	104,6	468,7	107,1	525,5	114,3	517,4	116,1
Toplotni kapacitet	kW	398,0	91,0	401,8	94,0	450,2	100,6	449,2	102,7	502,4	110,2	496,5	111,5
Nesigurnost pri određivanju toplotnog kapaciteta	%+/-	16,7	3,8	16,9	4,0	18,9	4,2	18,9	4,3	21,1	4,6	20,9	4,7
Efikasnost - direktna metoda	**%**	**95,4**	**95,9**	**95,6**	**95,8**	**95,5**	**96,2**	**95,8**	**96,0**	**95,6**	**96,4**	**96,0**	**96,1**
Kapacitet / nominalna snaga	%	99,5	22,8	100,9	23,9	100,0	22,4	100,1	23,1	100,5	22,0	99,3	22,3

▪ Mereno ▪ Interpolacija u skladu sa EN303.5 deo 5.3.1

POTPUNO AUTOMATSKI, EKOLOŠKI KOTLOVI SA ODLIČNIM PERFORMANSAMA!



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Automatski kotlovi na biomasu

SMART 60–100 kW

Potpuno automatski, ekološki kotlovi sa odličnim performansama ▪ Fleksibilno tehničko rešenje ▪ Različite vrste goriva ▪ Ekonomski i ekološki ▪ 3 vrste kotlova ▪ Efikasnost 90% ▪ Podešavanja izlazne snage 30-100 % ▪ Lambda sonda ▪ Gorionik od nerđajućeg čelika sa mehanizmom za čišćenje ▪ Regulacija grejnih krugova ▪ Kaskadna instalaciona rešenja ▪ Daljinska kontrola i upravljanje preko mobilnog telefona i interneta ▪ Mobilna rešenja u kontejneru ▪ Specijalna oprema za kotlove

AUTOMATSKI KOTLOVI NA BIOMASU

SMART 60–100 kW

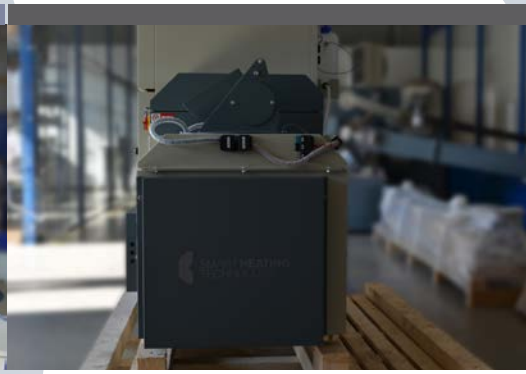
5 GODINA GARANCIJE

za kompletnu jedinicu

*Uslovi garancije od 5 godina dostupni na zahtev







Varijante dizajna kotla ➔







* Sastav ovog goriva se testira

Moguće primene SMART kotlova ➔

- Veliki objekti:

- Stambene zgrade
- Višenamenski objekti
- Sportski kompleksi
- Proizvodni pogoni, industrijski objekti i skladišni prostor
- Objekti za poljoprivredu, hortikulturu, ribarstvo
- Hoteli / Moteli / Wellness centri / Bazeni / Sportske arene
- Opštinske zgrade
- Škole, bolnice, policija i vojni kompleksi

U saradnji sa:

SIEMENS

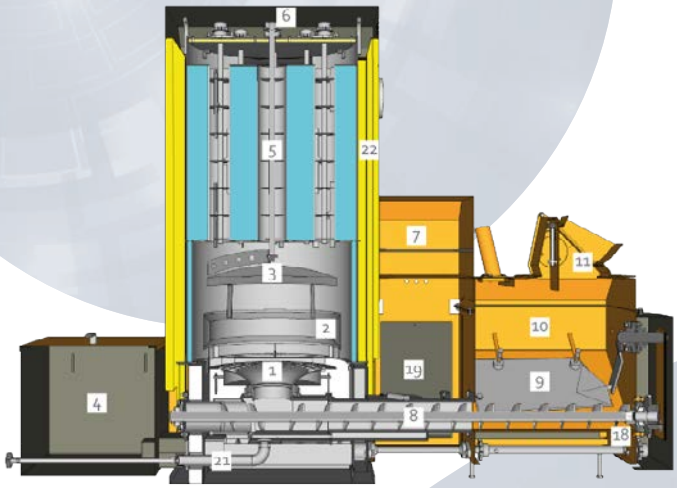
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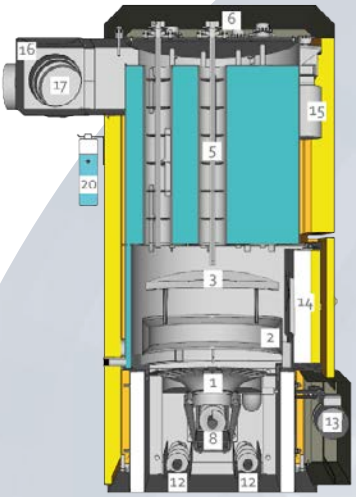
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SMART 60–100 kW – Frontalni & Bočni presek





Daljinska kontrola i upravljanje preko mobilnog telefona i interneta
Mobilna rešenja u kontejneru
Konverter jedinica



Description:

1. Primarni gorionik sa pokretnom rešetkom
2. Sekundarna krunica dodatnog sagorijevanja
3. Deflektor
4. Posuda za pepeo
5. Izmenjivač toplote sa turbolatorima
6. Turbulator
7. Upravljačka jedinica Siemens
8. Puž za transport goriva
9. Poremećajni mehanizam
10. Spremnik goriva
11. Razdvajajući poklopac kontejnera i prenosnika za gorivo
12. Puž za izbacivanje pepela
13. Motor rešetke
14. Servisna vrata kotla
15. Pogonski motor turbulatora
16. Produžetak dimnjaka
17. Ventilator
18. Motor puževa
19. Oprema
    - Primarni I sekundarni ventilatori
    - Ventilatora paljenja
    - Mehanizam za hitno gašenje
20. Kanister za gašenje sa senzorom za nivo
21. Čišćenje vazdušnog kanala
22. Izolacija

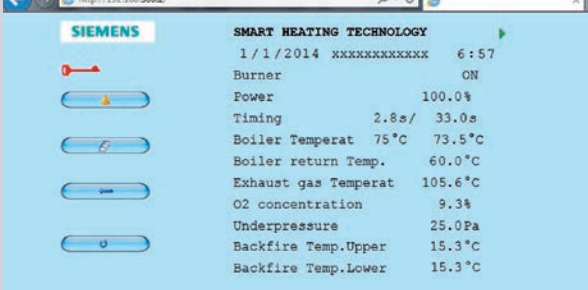
KONVERTER JEDINICA	
1, GJ = 1000 MJ	
1, GJ = 277, 778 kVh	1, GJ = 0,278 MVh
1, GJ = 238 846 kcal	

GORIVO - Kalorijska vrednost
1 kg – Drveni pelet = 16,5–18,5 MJ = 4,6–5,1 kVh
1 kg – Lignit = 10,5–17,2 MJ = 2,9–4,8 kVh
1 kg – Drvena sečka sa vlagom 10 % = 16,4 MJ = 4,6 kVh
1 kg – Drvena sečka sa vlagom 20 % = 14,3 MJ = 4,0 kVh
1 kg – Drvena sečka sa vlagom 30 % = 12,2 MJ = 3,4 kVh
1 kg – Drvena sečka sa vlagom 40 % = 10,1 MJ = 2,8 kVh
1 m^3 – Prirodni gas = 37,82 MJ = 10,5 kVh

Tehnički podaci		60	80	100
Nominalna snaga Ns	kW	60	80	100
Delimična snaga Ds	kW	17	23	29
Efikasnost kotla pri Ns	%	90	89,4	88,2
Efikasnost kotla pri Ds	%	89,1	88,5	87,7
Klasa kotla		5	5	5
Nivo buke	dB	< 65	< 65	< 65
Težina	kg	783	997	1042
Voda				
Zapremina vode	l	129	105	105
Prečnik priključka za vodu	"	2	2	2
Prečnik priključka za vodu	DN	50	50	50
Hidraulični gubici pri temperaturnom gradientu od 10°	mbar	17	29,9	47
Hidraulični gubici pri temperaturnom gradientu od 20°	mbar	4,3	7,5	11,9
Temperatura kotla	°C	65-90	65-90	65-90
Minimalna temperatura povratne vode	°C	55	55	55
Maksimalni radni pritisak	bar	3,5	3,5	3,5
Probni pritisak	bar	6	6	6
Temperatura ognjište	°C			
Pritisak u ognjištu	mbar	-0,01	-0,01	-0,01
Potreban protok vazduha u dimnjaku	mbar	0,2	0,2	0,2
Potreba za veštačkim protokom vazduha u dimnjaku		yes	yes	yes
Temperatura dimnih gasova pri NS	°C	185	195	205
Maseni protok dimnih gasova pri NS	°C	90	95	105
Temperatura dimnih gasova pri Ds	kg/h	180	240	300
Maseni protok dimnih gasova pri Ds	kg/h	60	81	99
Obim dimnih gasova pri Ns	m^3/h	141	188	235
Obim dimnih gasova u Ds	m^3/h	47	63,5	77,6
Prečnik cevi dimnjaka	mm	200	200	200
Prečnik dimnjak	mm	200	200	200
Vrsta dimnjaka		otporan na vlagu		
Gorivo				
Maksimalna veličina	cm	3	3	3
Maksimalna vlažnost	%	30	30	30
Elektro oprema				
Priključak				
Ukupno	W	3131	3131	3131
Stepen zaštite IP		41	41	41







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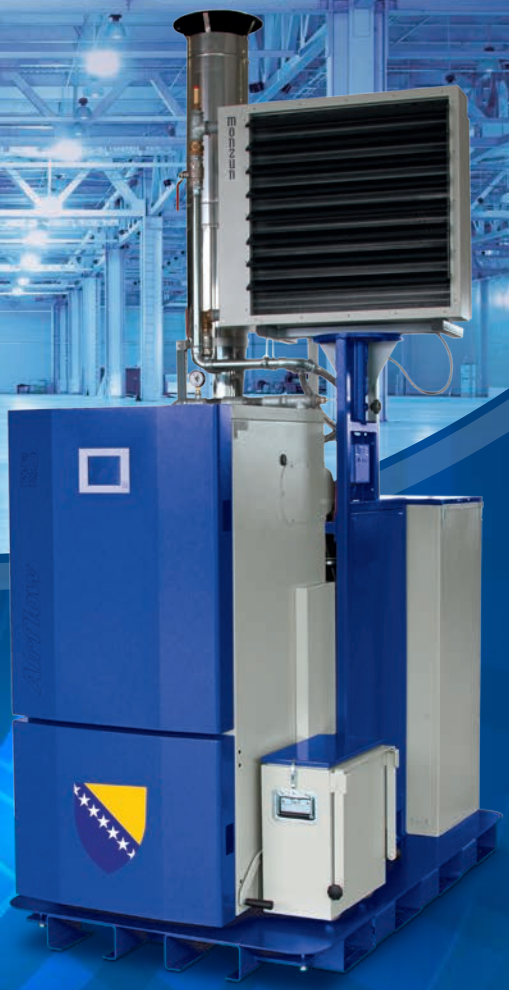
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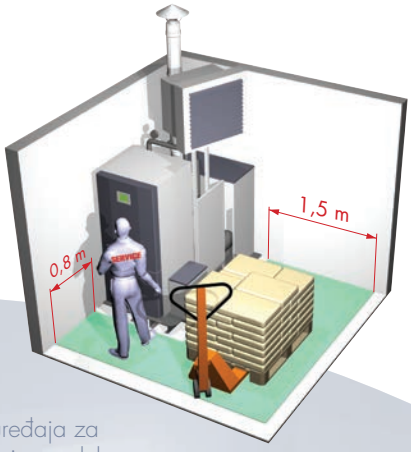
Smart Hot-Air Unit 30–50 kW

Kotao za topli vazduh na drveni pelet

▪ Čelična noseća paleta i pokrivajuća struktura ▪ Automatski kotao na drveni pelet sa automatskim čišćenjem i otpepeljavanjem ▪ Efikasnost > 90 % ▪ Podešavanja izlazne snage 30-100 %
▪ 400 L spremnik goriva ▪ Elektronski kontrolisana izduvna jedinica za topao vazduh sa pokretom od 0-270 °
▪ Isporuka kompletnog dimnjaka ▪ Isporuka kompletne hidraulike ▪ Prikaz operacija
▪ Daljinska kontrola i upravljanje preko mobilnog telefona i interneta

Smart Hot-Air Unit 30–50 kW





Parametri prostora za instalaciju:

Dimenzije uređaja za zagrevanje vazduha:
1 900 x 1 130 x 2 885 mm

Težina uređaja za zagrevanje vazduha:
815 kg / 920 kg

Toplotni i tehnički parametari	Jedinica	AirFlov 30 kW	AirFlov 50 kW
Nominalna snaga	kW	29	49,5
Izlazni opseg	kW	8,6 - 29	14,6 - 49,5
Potrošnja goriva	kg x sati-1	1,9 - 6,6	3,44 - 11,63
Efikasnost (nomilna snaga)	%	90,9	90,4
Temperatura dimnih gasova (nomilna snaga)	°C	94 - 148	110 - 153
Klasa kotla		5	5
Vreme sagorevanja min/ nomilna snaga (na osnovu spremnika goriva od 250 kg)	sati	147 - 42	80 - 24
Tehnički parametri proizvoda			
Težina	kg	815	920
Sadržaj vode	litara	140	190
Prečnik dimnjaka	mm	150	160
Dimenzije (širina x dubina) bez kutije za pepeo	mm	1130 x 1900	1130 x 1900
Maksimalni pritisak vode	bar	do 3	up to 3
Potreban protok vazduha u dimnjaku	mbar	0,1 - 0,2	0,1 - 0,3
Preporučena radna Vode za grejanja	°C	60 - 80	60 - 80
Minimalna temperatura povratne vode	°C	55	55
Nivo buke	dB	57	57
Izlazna snaga 70/50 °C, 10 °C	kW	32,48	53,91
Opseg cirkulacije vazduha na otvorenom prostoru	m	22,5	17,5
Srednji nivo zvučnog pritiska	dB	64,5	67,2
Električni parametri proizvoda			
Priključni napon		230VAC ±10 %, 50Hz ± 2Hz	230VAC ±10 %, 50Hz ± 2Hz
Maksimalni električni ulaz – paljenje	V	1200	1200
Električna zaštita upravljačke jedinice		IP54	IP54
Električna zaštita kablova kotla		IP20	IP20
Parametri goriva			
Prečnik drvenih peleta	mm	6,0 - 8,5	6,0 - 8,5
Kalorijska vrednost	MJ/kg	približno 16 - 18	približno 16 - 18
Sadržaj vode		do 10 %	do 10 %
Sadržaj pepela		do 1 % (0,8 - 1,0 %)	do 1 % (0,8 - 1,0 %)

Opis Smart uređaja za zagrevanje vazduha:

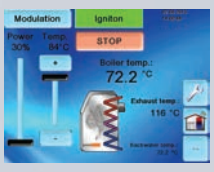
- Kompaktna noseća čelična paleta za lakše rukovanje i pozicioniranje
- Smart 30/50/80 kW kotao na drveni pelet
- 250 kg spremnik goriva (400 l) uključujući transportni puž
- 2 m dimnjak iz tri sloja
- Izduvna jedinica za topao vazduh sa pokretom od 0-270 °
- Cirkulaciona pumpa
- Ispusni ventil
- Kontrola pritiska
- Ekspanziona posuda
- Ventil za ispuštanje pritiska
- Automatska kontrola ventila
- Kalorimetar – Opciono

Karakteristike Smart 30/50/80 kW kotla na drveni pelet:

- Čelična konstrukcija sa zaštitnim premazom za dug radni vek
- Više opcija za snabdevanje gorivom: transportni puž, vakuum ili ručno snabdevanje
- Napredna upravljačka jedinica za automatski rad
- Visoka efikasnost – preko 90 %
- Podešavanja izlazne snage od 30-100 % u zavisnosti od potrebe za grejanjem
- Gorionik od livenog gvožđa sa zamenljivom površinom gorionika
- Automatsko električno paljenje
- Vertikalni izmenjivač toplote koji se sam čisti
- Sigurnosni termostat sa automatskim isključenjem
- Automatsko otpepeljavanje u kutiju na točkićima
- Daljinska kontrola i upravljanje preko interneta ili GSM
- Integrisani ventilator dimnjaka – Opciono



Prikaz operacija:





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SMART **HEATING**
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Mobilna kotlarnica

SMART CABIN 150–500–1500 KW

▪ Tehnologija kotlova na biomasu Smart 150 - 500 kW ▪ Mogućnost pomoćnog kotla na mazut / gas
▪ Kompletna rešenja silosa za drveni pelet i drvenu sečku ▪ Kompletna rešenja dimnjaka i odvoda dima
▪ Kompletna rešenja hidrauličnih instalacija unutar kontejnera ▪ Sistem merenja i regulacije
▪ Efikasnost sagorevanja 96% ▪ Fleksibilnost tehničkog rešenja
▪ Različite mogućnosti dizajna uključujući posebne dizajn elemente

MOBINE KOTLARNICE

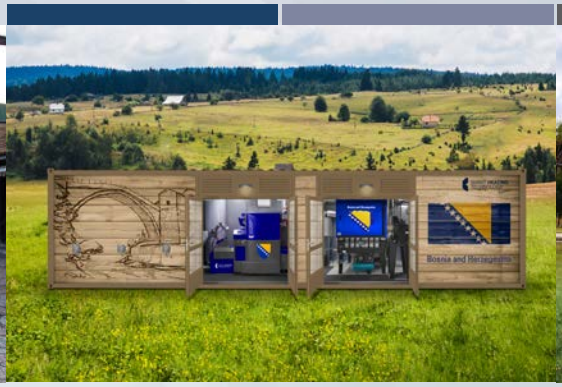
SMART CABIN 150–500–1500 kW

5 GODINA GARANCIJE

za kompletnu jedinicu

*Uslovi garancije od 5 godina dostupni na zahtev







Specifikacija i dizajn ↑









Opcije tehničkih rešenja mobilnih kotlarnica:

- Leva ili desna varijanta mobilne kotlarnice
- Hidraulično ili ručno otvaranje vrata za punjenje silosa
- Ulazna vrata od stakla ili metala
- Posebna sigurnosna oprema
- Spoljni izgled prema zahtevu kupca

Dimenzije i težine:

150–250 kW: 3 x 3 x 12,6 m ~ 12 tona *

300–500 kW: 3,2 x 3 x 12,6 m ~ 15 tona *

*U slučaju zahteva za isporuku pomoćnog kotla na gas ili mazut, potrebno je proširiti kontejner za 1,2 m i to povećava težinu za 1,5 tona.

U saradnji sa:

SIEMENS

GRUNDFOS

Hidraulika & Dimnjak & Silos →







AUTOMATSKI KOTLOVI NA BIOMASU SMART 150–500–1500 kW

SMART HEATING TECHNOLOGY
Bosnia

ČSN-EN 303.5/2013
ISO 9001:2009

Efikasnost 96 %
Daljinska kontrola i upravljanje preko mobilnog telefona i interneta

































* Sastav ovog goriva se testira

TEHNIČKI PODACI SMART KOTLOVA										
Oznaka		150	180	220	250	300	350	400	450	500
Nominalna snaga Ns	kW	150	180	220	250	300	350	400	450	500
Delimična snaga Ds	kW	40	45	55	65	75	90	100	115	140
Efikasnost kotla pri Ns	%	95	95	95	95	95	95	95	95	95
Efikasnost kotla pri Ds	%	96	96	96	96	96	96	96	96	96
Klasa kotla		5	5	5	5	5	5	5	5	5







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SMART INDUSTRIAL HEATING SOLUTION

Kompletno rešenje za grejanje industrijskih i stambenih objekata na biomasu

▪ Kompletna isporuka mobilnih kotlarnica u kontejneru ili isporuka individualnih kotlova na biomasu ▪ Opcija grejanja toplom vodom ili toplim vazduhom ▪ Kompletna hidraulična i električna rešenja za grejanje više zgrada (više grejnih krugova) ▪ 10–22 termostata u svakoj zgradi ▪ Kompletan nadzor i regulacija svih grejnih krugova ▪ Mogućnost instalacije sertifikovanih kalorimetara za naplatu utrošene energije ▪ Daljinska kontrola i upravljanje preko mobilnog telefona i interneta ▪ Trenutna obaveštenja o promeni radnih uslova

MOBILNA KOTLARNICA
SMART CABIN 150–500–1500 kW

5 GODINA GARANCIJE

za kompletnu jedinicu

*Uslovi garancije od 5 godina dostupni na zahtev







ČSN-EN 303.5/2013
ISO 9001:2009

Efikasnost 96 %
Daljinska kontrola i upravljanje
preko mobilnog telefona i interneta





Mogućnosti primene Smart Industrial Cabin:

- Stambene zgrade
- Višenamenski objekti
- Tržni centri
- Proizvodni pogoni, industrijski objekti i skladišni prostor
- Hoteli / Moteli / Wellness centri / Bazeni
- Sportske arene
- Opštinske zgrade
- Škole, bolnice, policija i vojni kompleksi
- Gradske četvrti













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SMART GREENHOUSE HEATING SOLUTION

Kompletno rešenje za grejanje na biomasu
za upotrebu u poljoprivredi

- Kompletna isporuka mobilnih kotlarnica u kontejneru ili isporuka individualnih kotlova na biomasu
- Opcija grejanja toplom vodom ili toplim vazduhom
- Kompletna hidraulična i električna rešenja za grejanje više zgrada (više grejnih krugova)
- 2-4 termostata u svakom objektu
- Kompletan nadzor i regulacija svih grejnih krugova
- Daljinska kontrola i upravljanje preko mobilnog telefona i interneta
- Trenutna obaveštenja o promeni radnih uslova

MOBILNA KOTLARNICA
SMART CABIN 150–500–1500 kW

5 GODINA GARANCIJE

za kompletnu jedinicu

*Uslovi garancije od 5 godina dostupni na zahtev



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Efikasnost 96 %
Daljinska kontrola i upravljanje preko mobilnog telefona i interneta







Mogućnosti izgleda unutrašnjeg ventilatora







Mogućnosti primene Smart GreenHouse Cabin:

- Grejanje plastenika –toplom vodom / toplim vazduhom / priprema potrošne tople vode
- Živinarske farme –toplom vodom / toplim vazduhom / priprema potrošne tople vode
- Stočne farme –toplom vodom / toplim vazduhom / priprema potrošne tople vode
- Farme svinja –toplom vodom / toplim vazduhom / priprema potrošne tople vode
- Uzgoj ribe –toplom vodom / toplim vazduhom / priprema potrošne tople vode
- ZOO vrtovi –toplom vodom / toplim vazduhom / priprema potrošne tople vode
- Rešenja za sušenje materijala np. sušenje voća – priprema potrošne tople vode







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Detaljno analiziramo

4. Precizna proizvodnja
5. Isporuka i montaža

Proizvodimo po meri

6. Praćenje instalacija 24/7
7. Periodično servisiranje i održavanje
8. Snabdevanje gorivom

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Montažne mobilne kotlarnice

SMART BIO-HOUSE 150–500–1500 kW

▪ Pocinkovana struktura sa PUR panelima prema zahtevima kupaca ▪ Hidraulično ili ručno otvaranje vrata za punjenje silosa ▪ Tehnologija kotlova na biomasu Smart 150–500–1500 kW ▪ Mogućnost pomoćnog kotla na mazut / gas ▪ Kompletna rešenja silosa za drveni pelet i drvenu sečku ▪ Kompletna rešenja dimnjaka i odvoda dima ▪ Kompletna rešenja hidrauličnih instalacija ▪ Sistem merenja i regulacije ▪ Efikasnost sagorevanja 96% ▪ Fleksibilnost tehničkog rešenja ▪ Različite mogućnosti dizajna uključujući posebne dizajn elemente

MONTAŽNE MOBILNE KOTLARNICE

BIO-HOUSE 150–500–1500 KW

5 GODINA GARANCIJE



Kotlarnica bez silosa

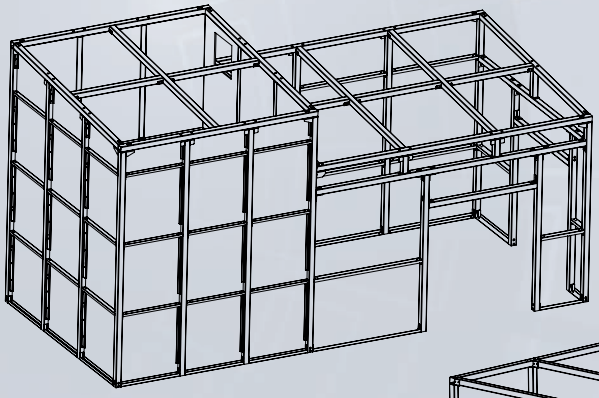


Kotlarnica sa silosom

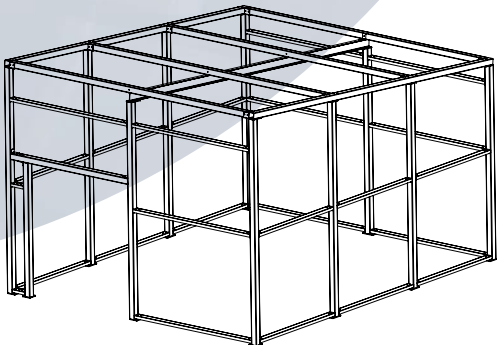


Posebno rešenje kotlarnice

Dizajn



Kotlarnica sa silosom



Kotlarnica bez silosa

Moguća tehnička rešenja montažnih mobilnih kotlarnica:

- Sa silosom ili bez silosa
- Leva ili desna varijanta mobilne kotlarnice
- Hidraulično ili ručno otvaranje vrata za punjenje silosa
- Ulazna vrata od stakla ili metala
- Posebna sigurnosna oprema
- Spoljni izgled prema zahtevu kupca

Minimalne – maksimalne dimenzije Smart BIO-HOUSE kotlarnice:

3 x 3 m – 9 x 9 m

Standardne boje panela:

RAL 3011 RAL 9002 RAL 5010 RAL 9006 RAL 6021 RAL 7016

U saradnji sa:

SIEMENS

GRUNDFOS

Hidraulika & Dimnjak & Silos ➔







AUTOMATSKI KOTLOVI NA BIOMASU SMART 150–500–1500 kW

SMART HEATING TECHNOLOGY
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Efikasnost 96 %
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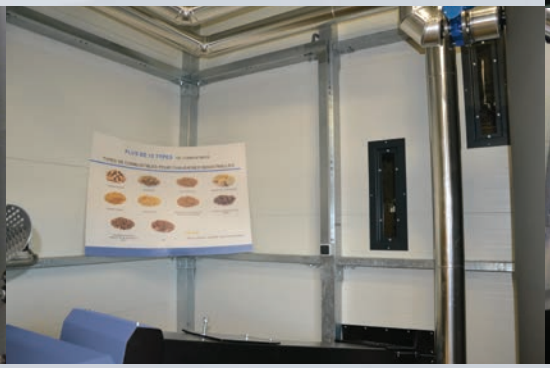




* Sastav ovog goriva se testira!

TEHNIČKI PODACI SMART KOTLOVA										
Oznaka		150	180	220	250	300	350	400	450	500
Nominalna snaga Ns	kW	150	180	220	250	300	350	400	450	500
Delimična snaga Ds	kW	40	45	55	65	75	90	100	115	140
Efikasnost kotla pri Ns	%	95	95	95	95	95	95	95	95	95
Efikasnost kotla pri Ds	%	96	96	96	96	96	96	96	96	96
Klasa kotla		5	5	5	5	5	5	5	5	5







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SMART AKUMULACIONI REZERVOARI

FE AKU, FE AKU ST

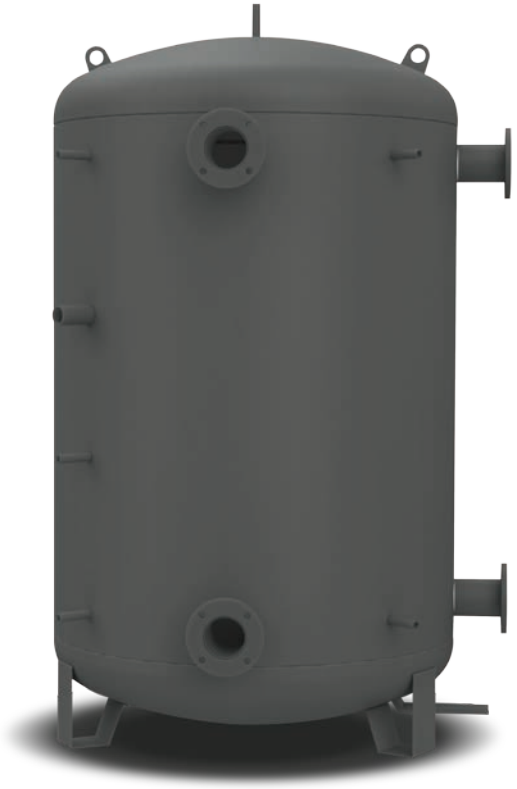
▪ Izrađeni od kombinacije čelik / nerđajući čelik ▪ Antikorozivni premaz ▪ Različite debljine izolacija ▪ Različite boje izolacija ▪ Prilagođavanja dimenzija i specifikacija po narudžbini – opciono ▪ Mogućnost dodavanja grejača za zaštitu protiv smrzavanja

AKUMULACIONI REZERVOARI

FE AKU

SMART HEATING TECHNOLOGY Bosnia

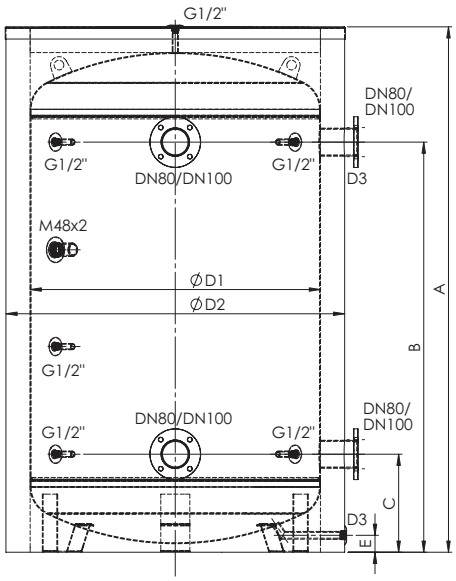
ISO 9001:2009



Tehnička specifikacija:

Materijal	Čelik CSN 11 321
Spoljašnja zaštitna obrada	antikorozivni premaz
Unutrašnja zaštitna obrada	bez tretmana
Max. radni pritisak	0,6 Mpa (6 bara)
Max. radna temperatura	100 °C
Garancija	36 meseci

Šema rezervora:



FE AKU – Akumulacioni rezervoar sa priključnim prirubnicama DN80 / PN6

Obim (l)	A (mm)	B (mm)	C (mm)	E (mm)	øD1 (mm)	øD2 (mm)	D3 (mm)	Težina (kg)	Izolacija (mm)	DGT-I (kWh / dan)
500	1910	1565	270	40	600	700	G1/2"	98	Izolacija koja može da se skine, napravljena od meke PUR pene CELLA PV 100 mm	2,45
750	1730	1345	300	55	790	990	G1/2"	130		2,97
800	1830	1445	300	55	790	990	G1/2"	135		3,12
900	1980	1595	300	55	790	990	G1/2"	142		3,35
1000	2230	1845	300	55	790	990	G1/2"	154		3,73
1200	2050	1635	340	65	950	1150	G3/4"	190		4,23
1500	2450	2035	340	65	950	1150	G3/4"	218		4,94
2000	2170	1695	400	70	1200	1400	G3/4"	320		5,74
3000	2285	1875	330	80	1400	1600	G3/4"	432		7,23
4000	2395	1930	385	110	1600	1800	G3/4"	578		8,78
5000	2895	2430	385	110	1600	1800	G3/4"	676		10,22

Težina – Akumulacioni rezervoar bez izolacije, DGT-I – Dnevni gubitak toplote izolovanog akumulacionog rezervoara sa vodom temperature 80 °C

FE AKU – Akumulacioni rezervoar sa priključnim prirubnicama DN100/PN6

Obim (l)	A (mm)	B (mm)	C (mm)	E (mm)	øD1 (mm)	øD2 (mm)	D3 (mm)	Težina (kg)	Izolacija (mm)	DGT-I (kWh / dan)
500	1910	1565	270	40	600	700	G1/2"	100	Izolacija koja može da se skine, napravljena od meke PUR pene CELLA PV 100 mm	2,45
750	1730	1345	300	55	790	990	G1/2"	132		2,97
800	1830	1445	300	55	790	990	G1/2"	137		3,12
900	1980	1595	300	55	790	990	G1/2"	144		3,35
1000	2230	1845	300	55	790	990	G1/2"	156		3,73
1200	2050	1635	340	65	950	1150	G3/4"	192		4,23
1500	2450	2035	340	65	950	1150	G3/4"	220		4,94
2000	2170	1695	400	70	1200	1400	G3/4"	322		5,74
3000	2285	1875	330	80	1400	1600	G3/4"	434		7,23
4000	2395	1930	385	110	1600	1800	G3/4"	580		8,78
5000	2895	2430	385	110	1600	1800	G3/4"	678		10,22

Težina – Akumulacioni rezervoar bez izolacije, DGT-I – Dnevni gubitak toplote izolovanog akumulacionog rezervoara sa vodom temperature 80 °C

AKUMULACIONI REZERVOARI

FE AKU ST

SMART HEATING TECHNOLOGY Bosnia

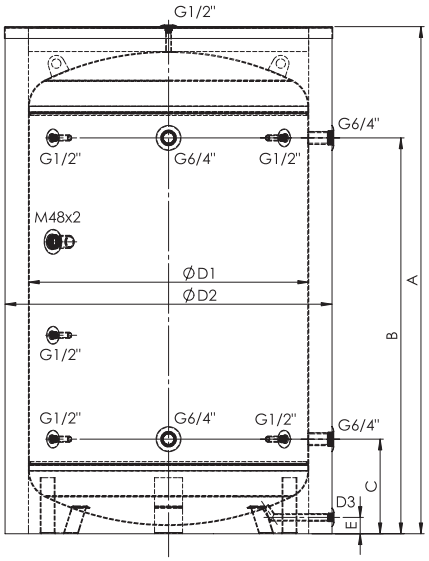
ISO 9001:2009



Tehnička specifikacija:

Materijal	Čelik CSN 11 321
Spoljašnja zaštitna obrada	antikorozivni premaz
Unutrašnja zaštitna obrada	bez tretmana
Max. radni pritisak	0,6 Mpa (6 bara)
Max. radna temperatura	100 °C
Garancija	36 meseci

Šema rezervora:

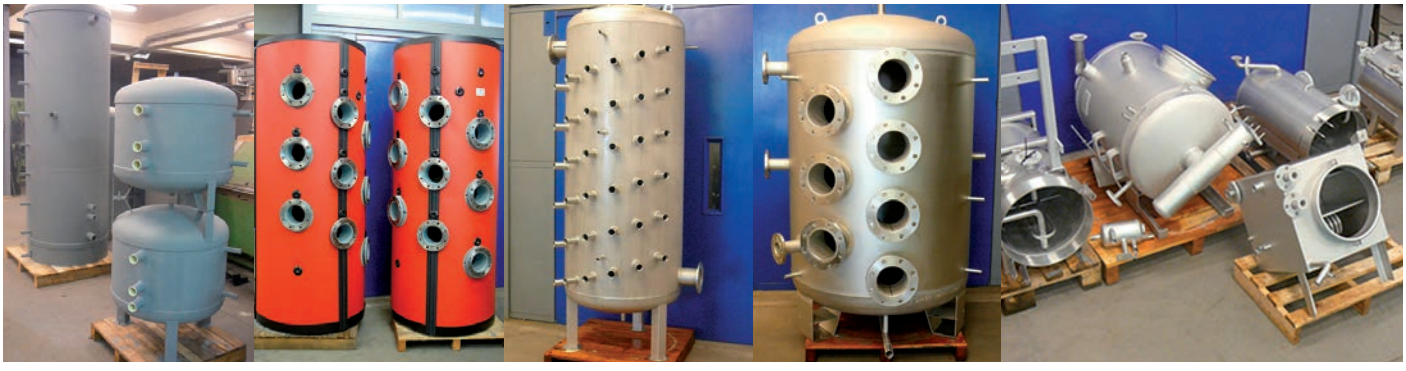


FE AKU ST – Akumulacioni rezervoar sa priključnim navojnim cevima G $^{6}/_{4}$

Obim (l)	A (mm)	B (mm)	C (mm)	E (mm)	øD1 (mm)	øD2 (mm)	D3 (mm)	Težina (kg)	Izolacija (mm)	DGT-I (kWh / dan)
500	1910	1565	270	40	600	700	G$^{1}/_{2}$"	82	Izolacija koja može da se skine, napravljena od meke PUR pene CELLA PV 100 mm	2,45
750	1730	1345	300	55	790	990	G$^{1}/_{2}$"	114		2,97
800	1830	1445	300	55	790	990	G$^{1}/_{2}$"	119		3,12
900	1980	1595	300	55	790	990	G$^{1}/_{2}$"	126		3,35
1000	2230	1845	300	55	790	990	G$^{1}/_{2}$"	138		3,73
1200	2050	1635	340	65	950	1150	G$^{3}/_{4}$"	174		4,23
1500	2450	2035	340	65	950	1150	G$^{3}/_{4}$"	202		4,94
2000	2170	1695	400	70	1200	1400	G$^{3}/_{4}$"	304		5,74
3000	2285	1875	330	80	1400	1600	G$^{3}/_{4}$"	416		7,23
4000	2395	1930	385	110	1600	1800	G$^{3}/_{4}$"	562		8,78
5000	2895	2430	385	110	1600	1800	G$^{3}/_{4}$"	660		10,22

Težina – Akumulacioni rezervoar bez izolacije, DGT-I – Dnevni gubitak toplote izolovanog akumulacionog rezervoara sa vodom temperature 80 °C

Primeri prilagođenih rezervoara



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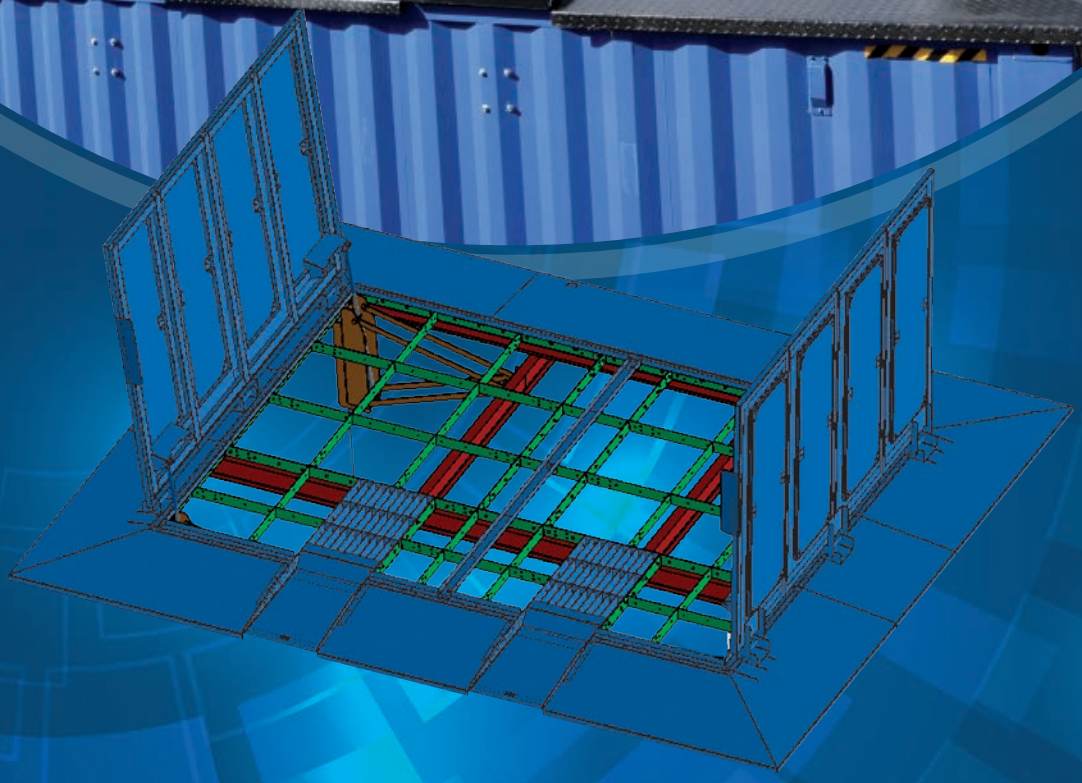
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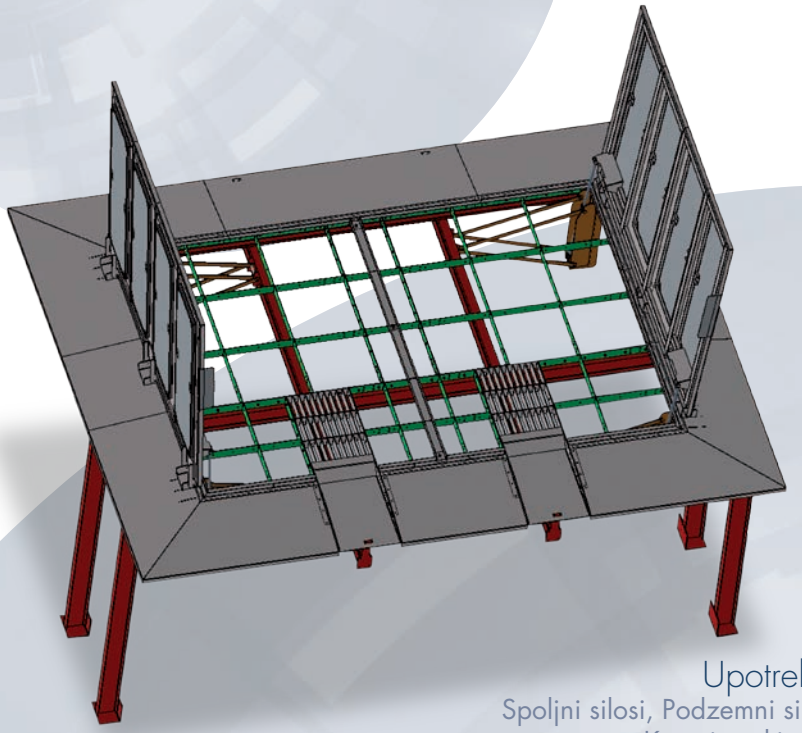
SMART HIDRAULIČNI POKLOPAC

▪ Jednokrilno / dvokrilna verzija za automatizaciju punjenja i skladištenje biomase ▪ Kompletan set hidrauličnih klipova, agregata i vodova ▪ Otporan na različite atmosferske promene i sa sistemom za izbacivanje vlage ▪ Mogućnost ugradnje nosećih pokretnih rampi sa zaštitnim barijerama ▪ Daljinsko upravljanje ▪ Svetlosni i zvučni indikator pokreta i upozoravajući signal kad je poklopac potpuno otvoren ▪ Praćenje nivoa materijala u silosu sa indikatorom popunjenosti ▪ Zaštitna mrežu za sprečavanje pada u silos ▪ Servisni otvor za hitni ulazak u silos

SMART HIDRAULIČNI POKLOPAC

Čistoća prirode
Ušteda klijentima
Komfor korisnicima

ISO 9001:2009

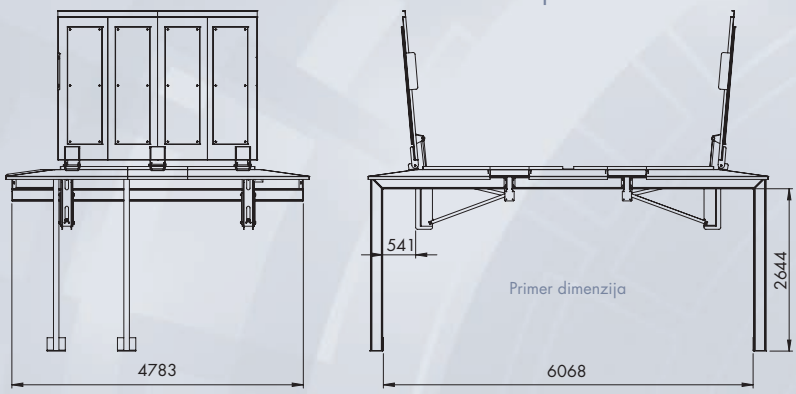


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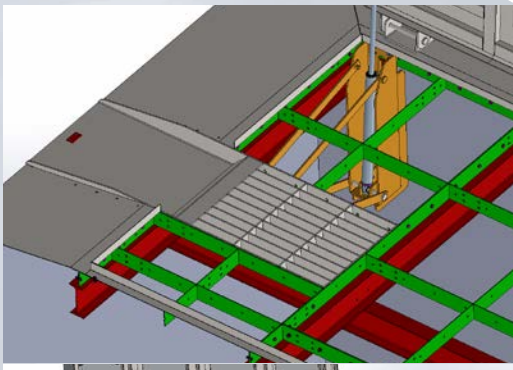
Spoljni silosi, Podzemni silosi,
Kontejnerski silosi

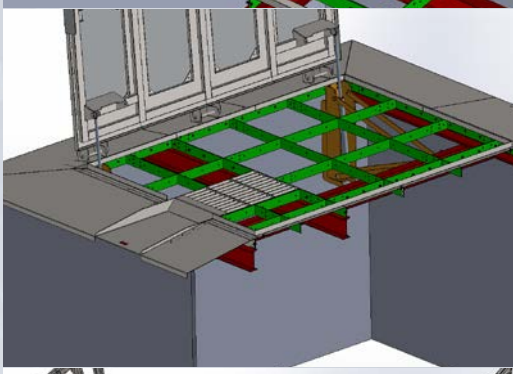
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Minimalne – maksimalne dimenzije: 1 x 1 m – 6 x 6 m



Specifikacija i dizajn:





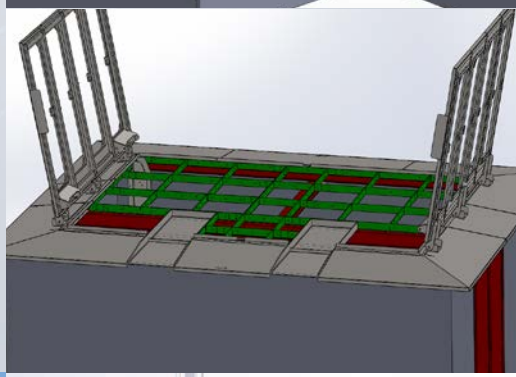


Foto galerija ➔







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TECHNOLOGY
Bosnia



SMART LISTA REFERENCI 2019/2020





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SMART HEATING TECHNOLOGY
SMART REFERENCE LIST | SMART INDIVIDUAL INSTALLATION SOLUTION 150 KW
BASIC SCHOOL, TOWN OF FAYETTE, MAINE, US



Fuel	Actual use reported for heating year: July 2012 to June 2013	July 2013 to June 2014	July 2014 to June 2015	July 2015 to June 2016
Pellets				
Used (tons)	1.00	55.75	85.56	57.33
Actual Cost (fuel + shipping)	$175.00	$10,035.00	$15,041.00	$11.321.15
Oil				
Used (gallons)	8,230.00	1,755.00	708.00	168.80
Actual Cost (fuel + shipping)	$25,431.00	$5,874.00	$2,260.00	$263.16
Total Cost (total both Actual Costs)	$25.606.00	$15.909.00	$17,301.00	$11.584.31



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SWEDEN



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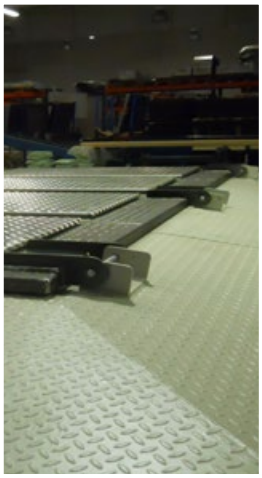
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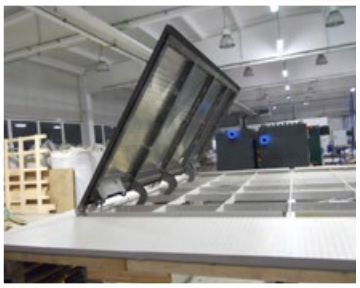
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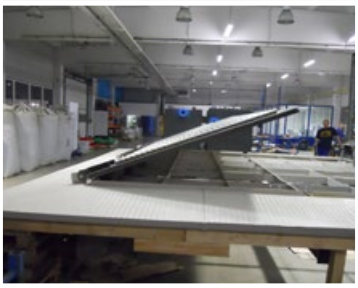


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SMART REFERENCE LIST | SMART HYDRAULIC HATCH
IRELAND









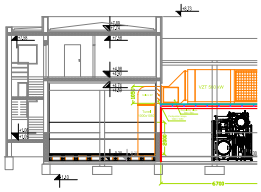
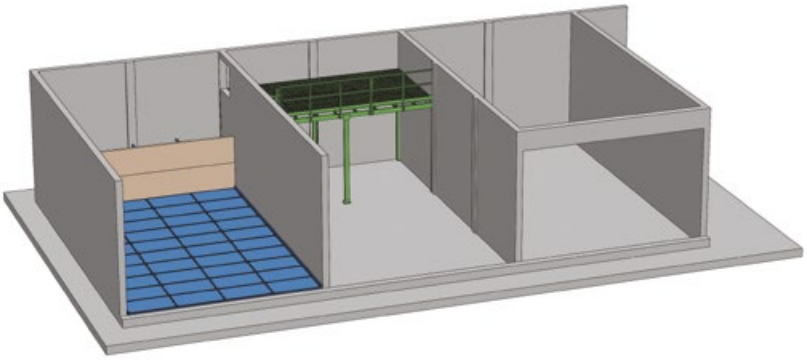
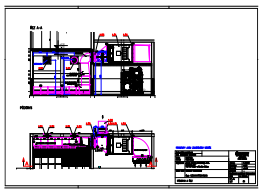
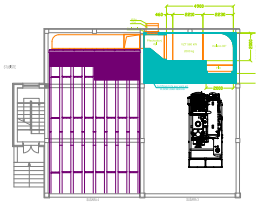
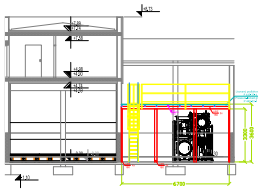
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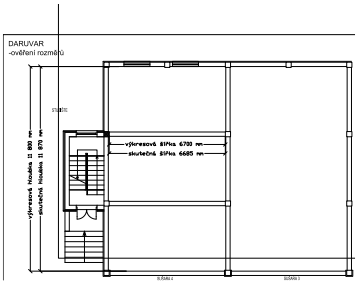
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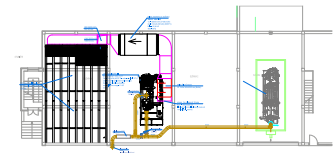
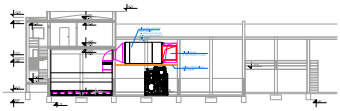
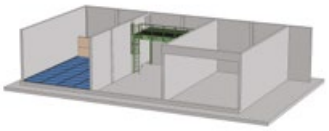
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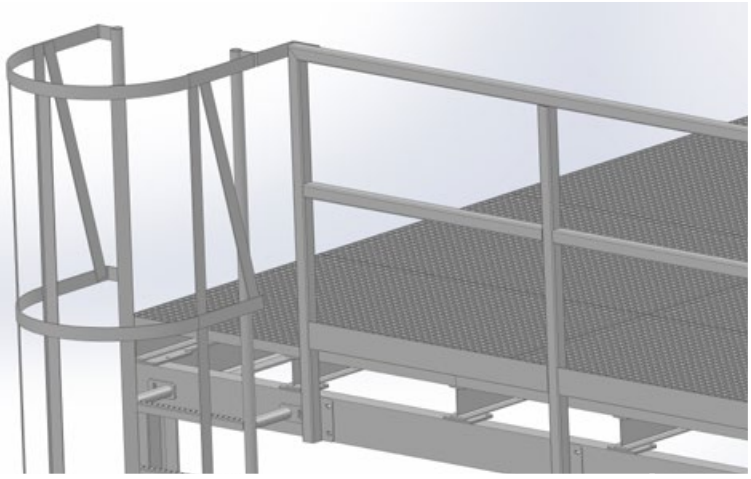
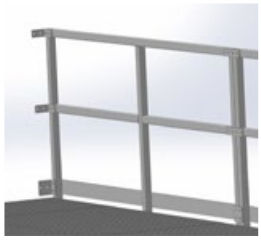
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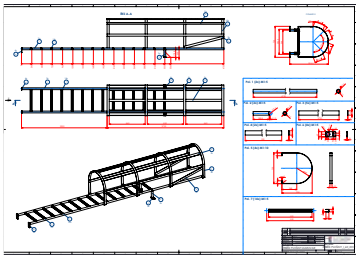
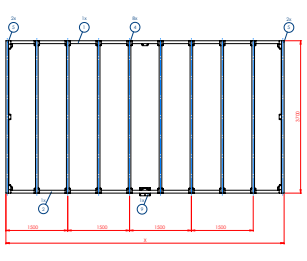
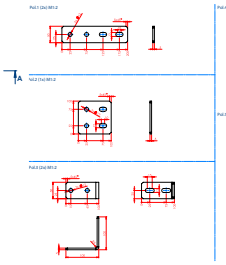
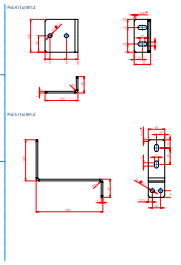
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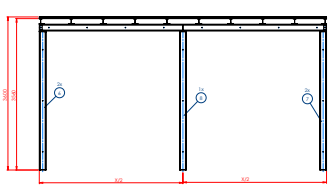
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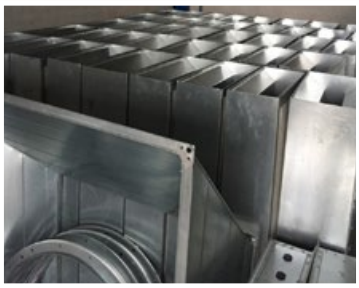
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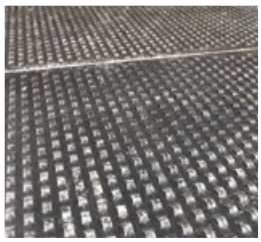
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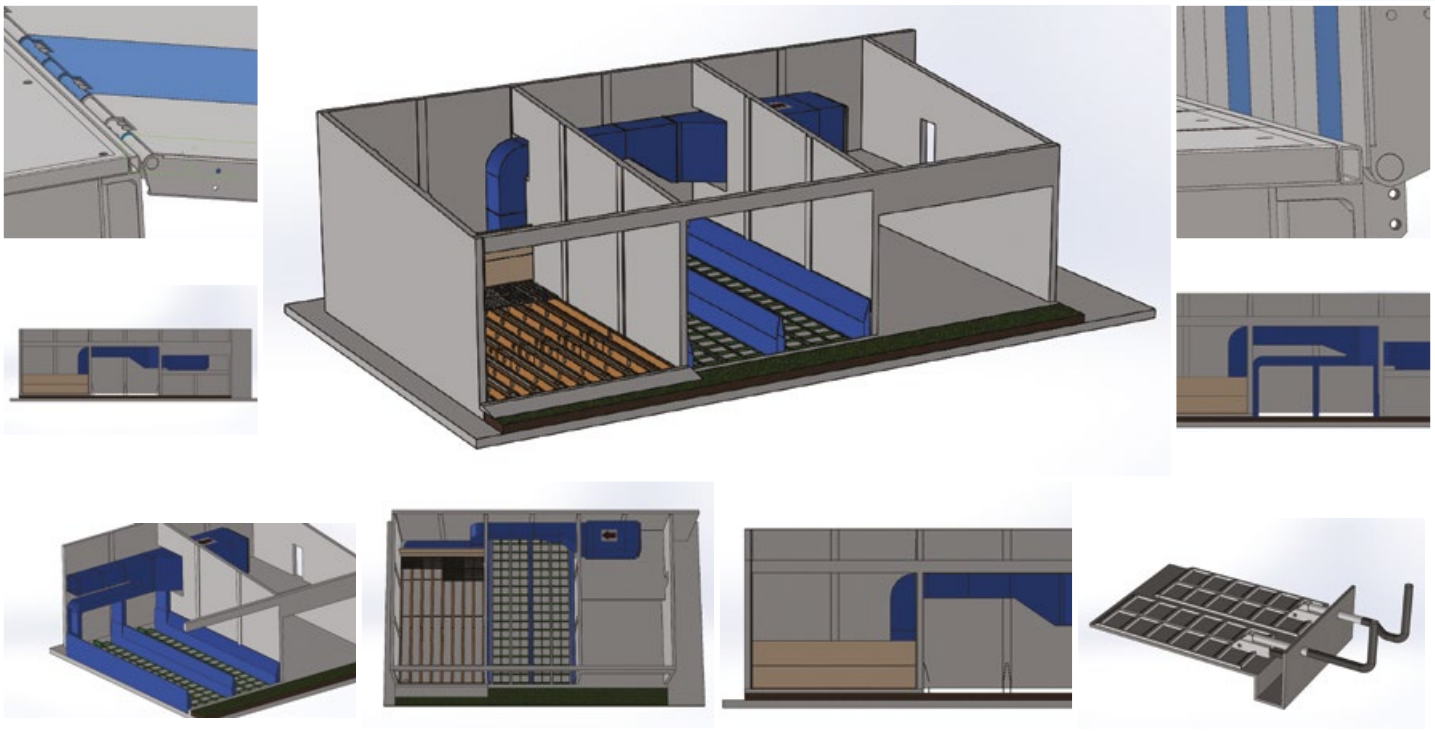



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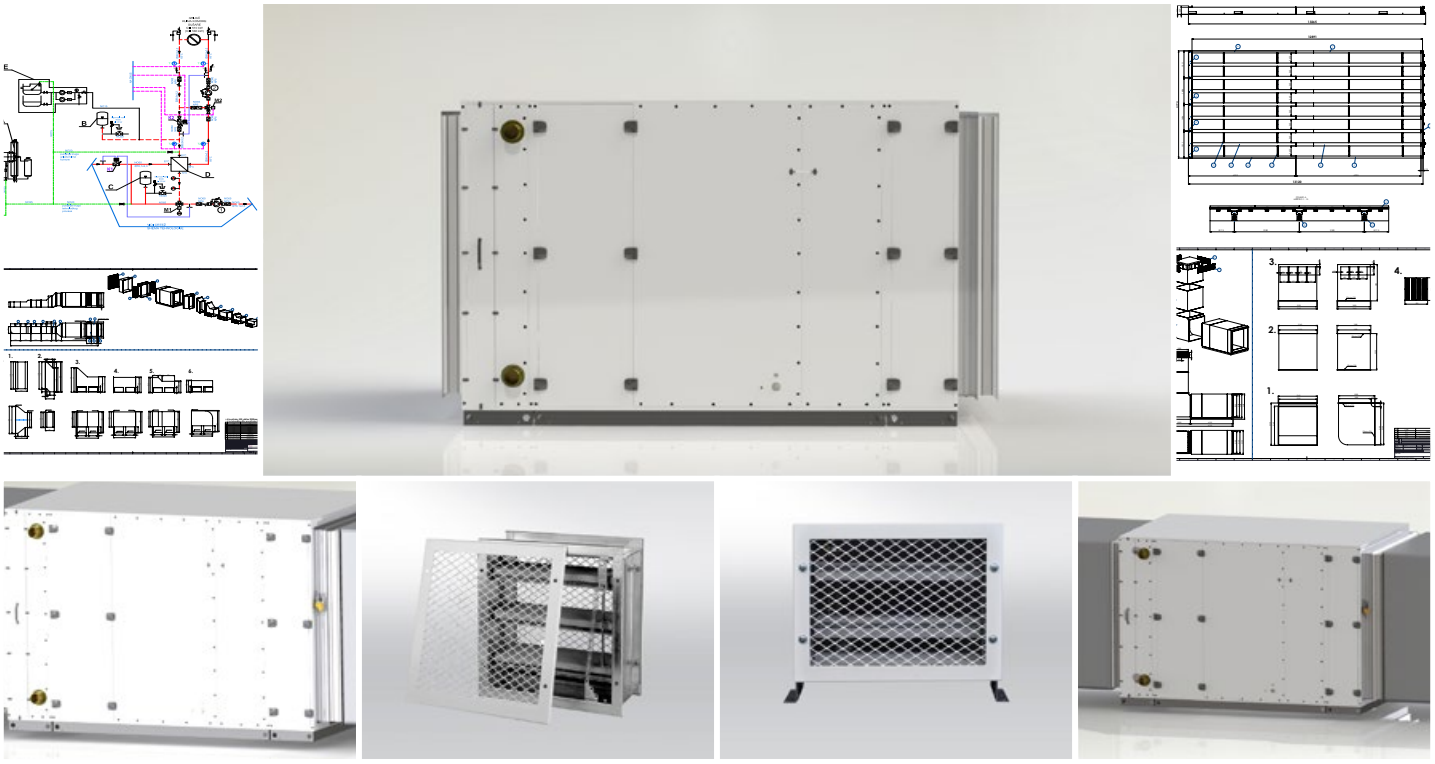


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SMART HOT-WATER – HOT-AIR AIR HANDLING UNIT 560 KW, AIR FLOW 32 000 M³/H, AIR TEMPERATURE WORKING RANGE 30/81,4°C, WATER FLOW 26,01 M³/H, WATER TEMPERATURE WORKING RANGE 85/65°C, ETHYLENE-GLYCOL MIXTURE 30%,13 120 MM X 5 995 MM GALVANIZED STEEL STRUCTURE, 10 TONS / M² WEIGHT CAPACITY, SPECIAL PERFORATED PLATES, CORNER PLATES, WALL PROTECTION BARRIERS, MOISTURE-EXHAUSTING WALL FANS, FIRE-PROOF FLAPS, TEMPERATURE SENSORS, MOISTURE SENSORS, REMOTE ICLOUD MONITORING
VIROVITICA, CROATIA



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SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART BIO-HOUSE SOLUTION 500 KW

GALVANIZED STRUCTURE SUPPORTED WITH STATIC CALCULATION, INSULATED PANELS 40 MM, CORNERS COVERING PLATES, GUTTERS, AIR VENTILATION GRIDS, BIG AND SMALL ENTRY DOORS, HYDRAULIC INSTALLATION, CHIMNEY INSTALLATION, MEASURING AND REGULATION BOX
CHICKEN FARM, SOMMEREN, NETHERLANDS



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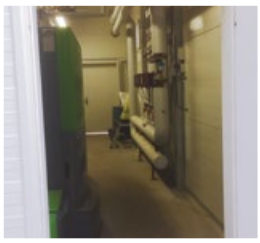
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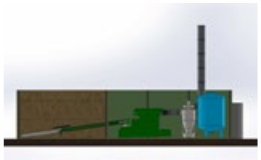


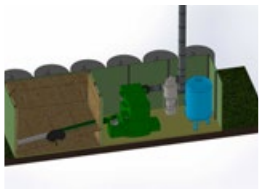
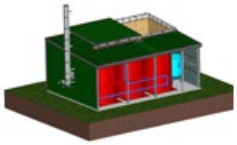


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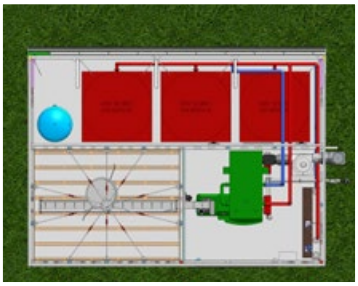
SMART REFERENCE LIST | SMART BIO-HOUSE SOLUTION 500 KW WITH MULTI-FUEL SILO WITH MOVING ROOF + 3 X 10 000 L ACCUMULATION TANKS

SMART BIO-HOUSE BOILER ROOM AND SILO GALVANIZED STRUCTURE SUPPORTED WITH STATIC CALCULATION, CHEMICAL ANCHORS, INSULATED KINGSPAN PANELS 80/100 MM, CORNERS COVERING PLATES, GUTTERS, AIR VENTILATION GRIDS, ENTRY DOORS, COMPLETE HYDRAULIC INSTALLATION INCL. MANIFOLD, 2 HEATING CIRCUITS, COMPLETE CHIMNEY INSTALLATION, SIEMENS MEASURING AND REGULATION BOX, GREEN HOUSES HEATING, KENLEY, VICTORIA, AUSTRALIA



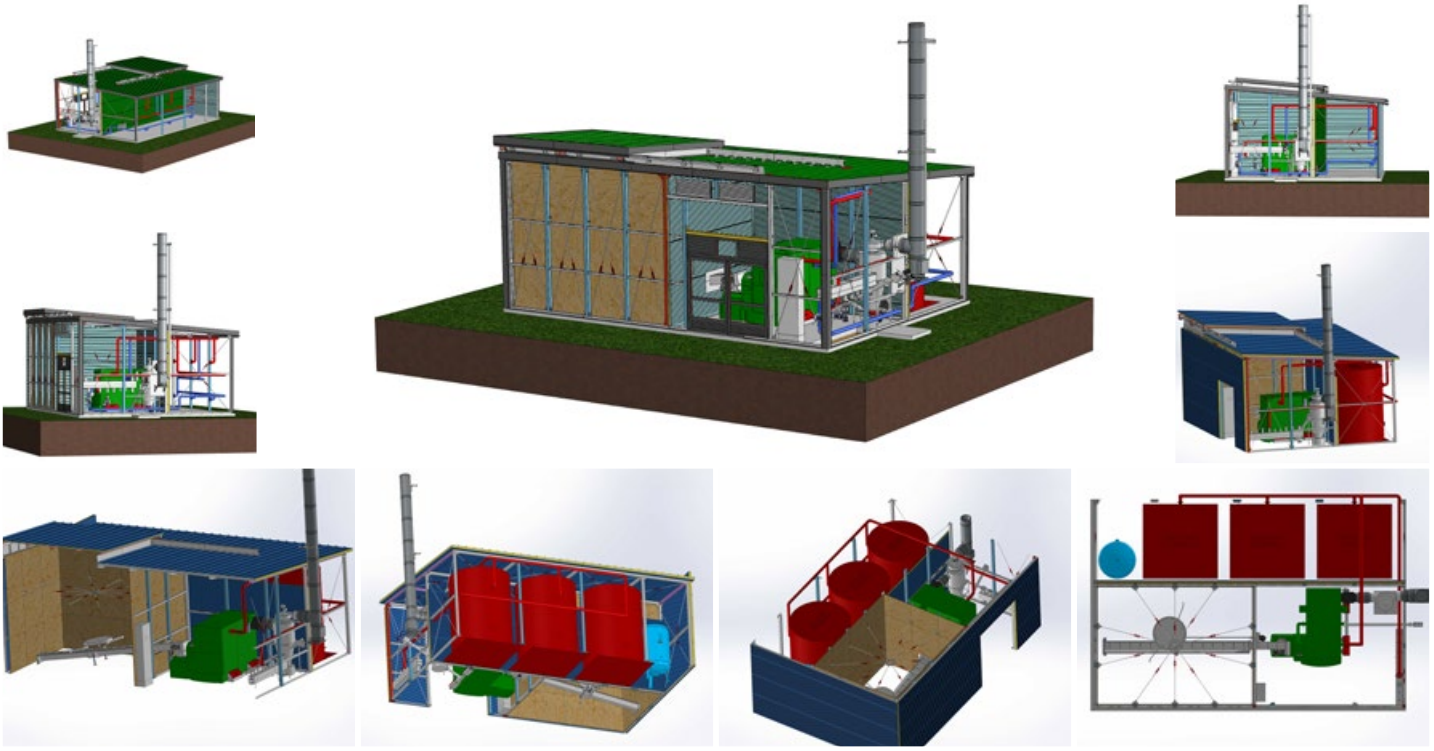

Boiler House Design with Silo








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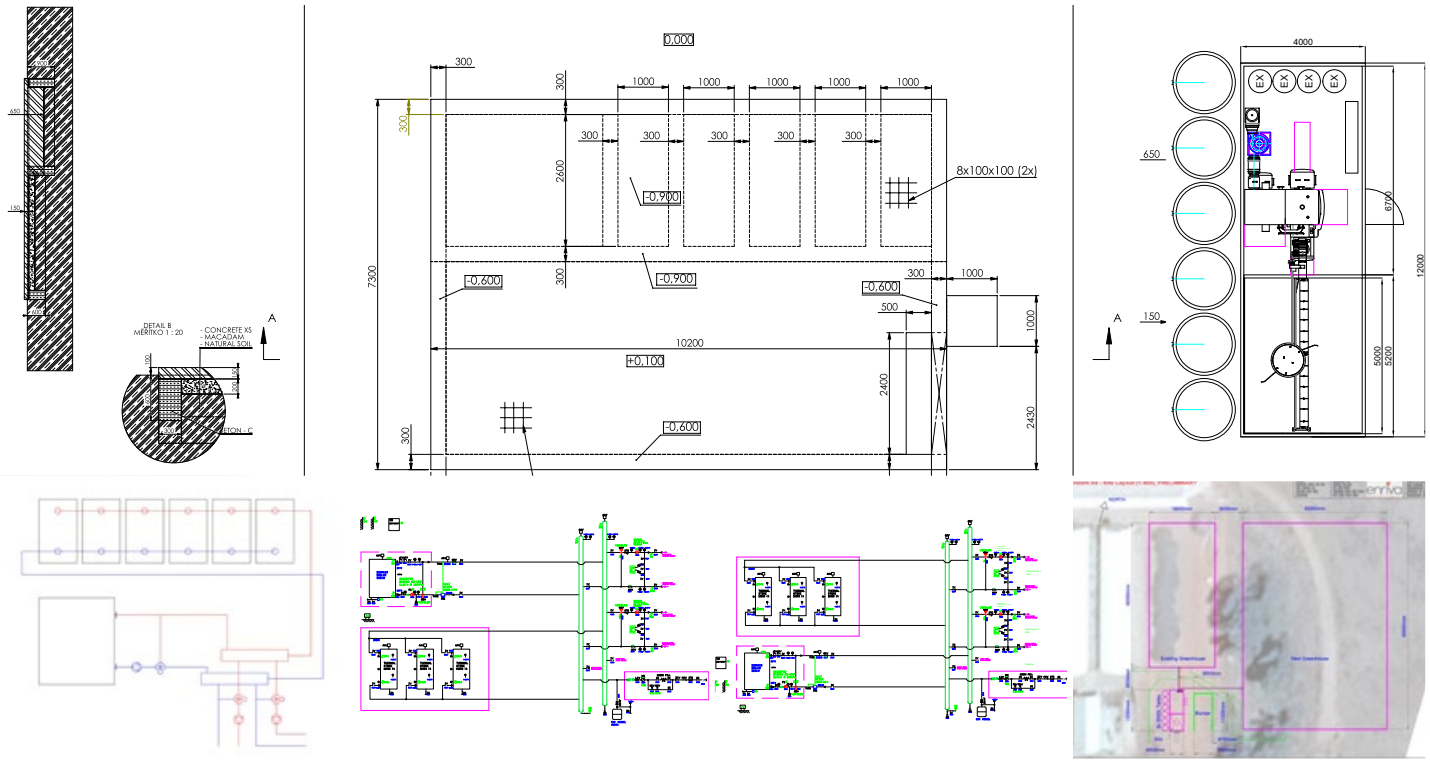


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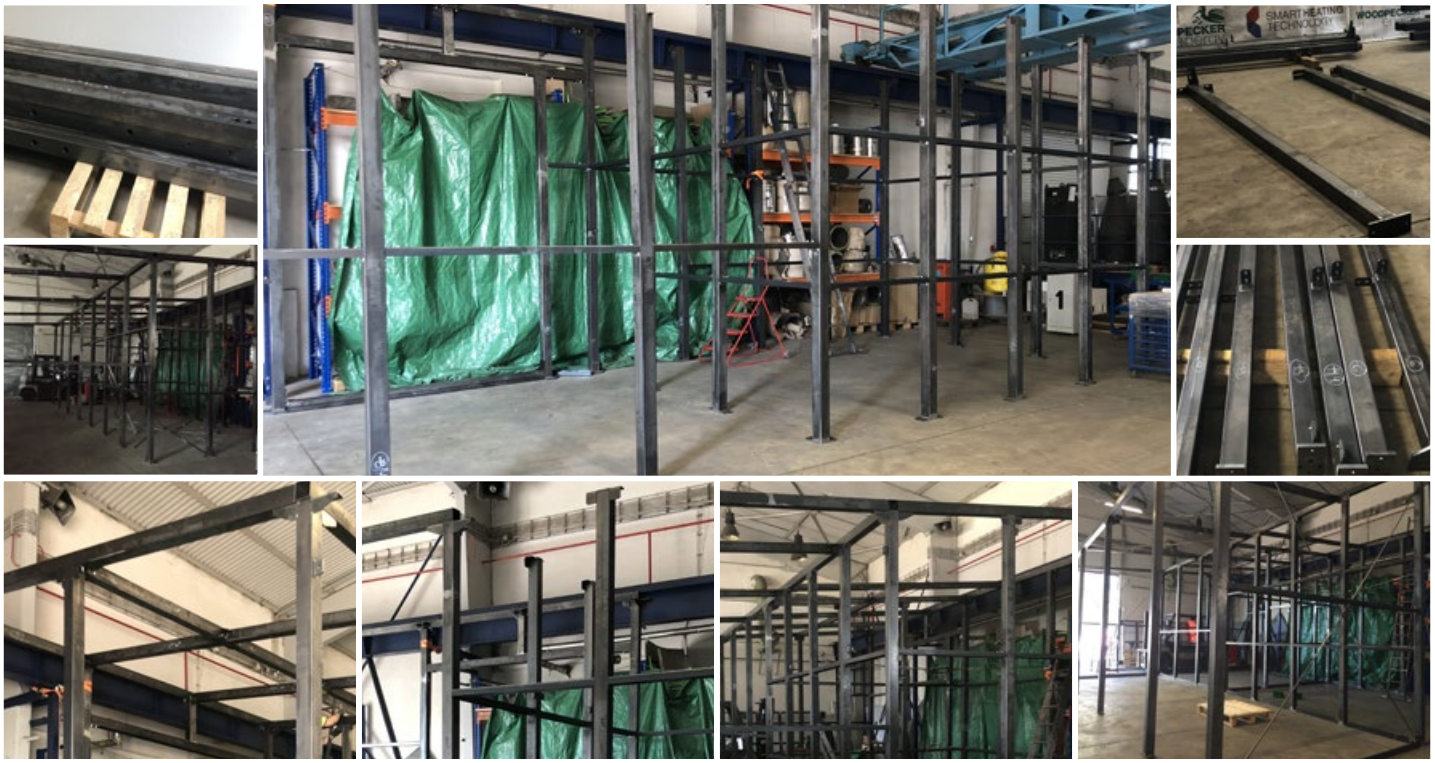


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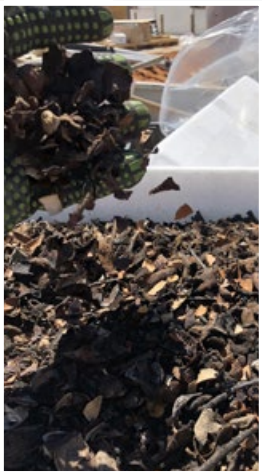
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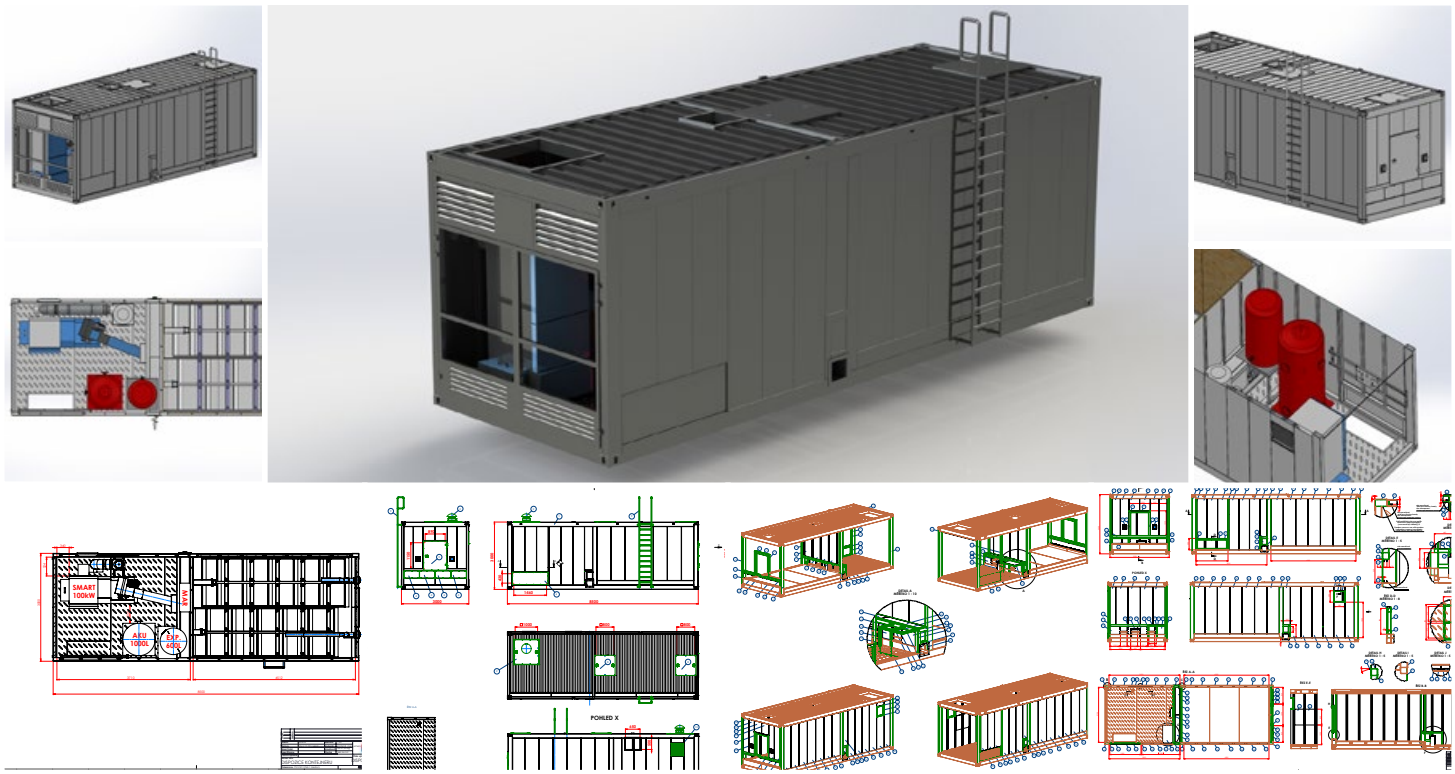


SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART MICRO CABIN 100 KW

WOOD PELLETS ONLY SILO DESIGN WITH FILLING PIPES, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED APARTMENT HOUSE, GRODNO-DUBNITSA, BELARUS



WOOD PELLETS ONLY SILO DESIGN WITH FILLING PIPES, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED APARTMENT HOUSE, GRODNO-DUBNITSA, BELARUS



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WOOD PELLETS ONLY SILO DESIGN WITH FILLING PIPES, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED APARTMENT HOUSE, GRODNO-DUBNITSA, BELARUS



SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART MICRO CABIN 100 KW

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SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART TOTAL CABIN 200 KW

SILOS ZA PELET, SA PNEUMATSKIM CEVIMA ZA SNABDEVANJE I VISOKOFREKVENTNIM SONAROM
1 GREJNI KRUG SA KOMPLETNOM REGULACIJOM I DALJINSKOM ICLOUD VIZUALIZACIJOM
TOTAL BENZINSKA STANICA, LICHTENBUSCH, RAEREN, BELGIJA



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SMART REFERENCE LIST | SMART CABIN 200 KW

MULTI–FUEL SILO DESIGN WITH WOOD CHIPS/PELLETS FILLING OUTLETS
1 HEATING CIRCUIT – FULLY MONITORED AND CONTROLLED HEAVY MACHINERY SHOP
BRISTOL, UK



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SMART REFERENCE LIST | SMART CABIN 200 KW

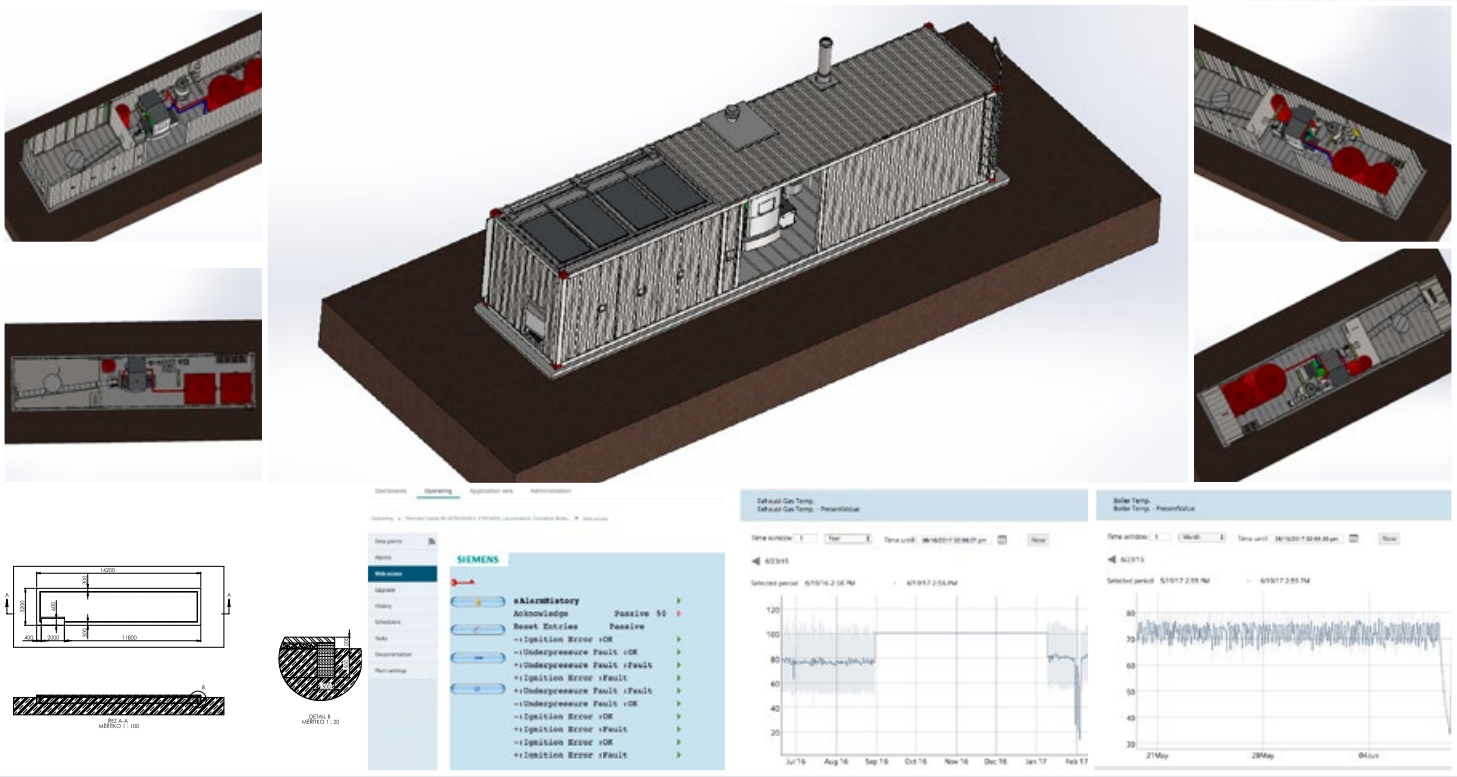
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SMART REFERENCE LIST | SMART MAGNUM CABIN 200 KW

MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, THORNTON-KEMSLEY CASTLE, LAURENCEKIRK, SCOTLAND



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SMART REFERENCE LIST | SMART MAGNUM CABIN 200 KW

MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, THORNTON-KEMSLEY CASTLE, LAURENCEKIRK, SCOTLAND



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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION
LUNDIE CASTLE, EDZELL, SCOTLAND



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SMART HEATING TECHNOLOGY

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MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION
CS TRACTOR PLANT, KIRRIEMUIR, SCOTLAND











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MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
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CS TRACTOR PLANT, KIRRIEMUIR, SCOTLAND



SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | 2 X SMART MICRO CABIN 250 KW

FURNITURE WASTE SILO SOLUTION WITH MANUAL ROOF, 1 HEATING CIRCUIT
WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION
GOLDOPTIMA FURNITURE FACTORY, GRODNO, BELARUS



SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | 2 X SMART MICRO CABIN 250 KW

FURNITURE WASTE SILO SOLUTION WITH MANUAL ROOF, 1 HEATING CIRCUIT
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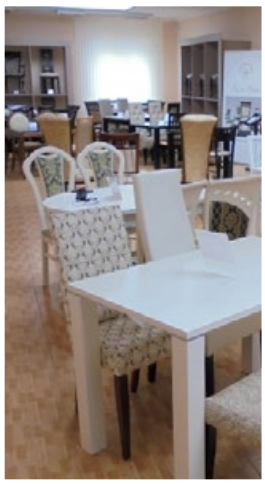



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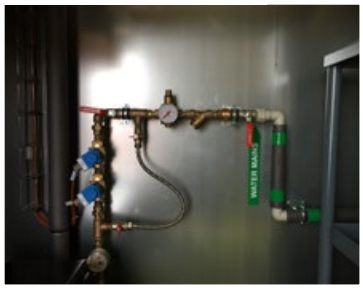
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MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT WITH COMPLETE
REGULATION AND REMOTE ICLOUD VISUALIZATION
OLIPEL, ESCO CONCEPT, LIEGE, BELGIUM















SMART HEATING TECHNOLOGY

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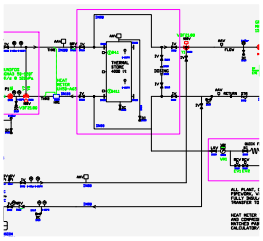
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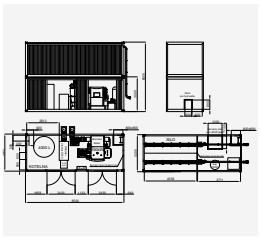
SMART REFERENCE LIST | SMART DOUBLE-DECKER CABIN

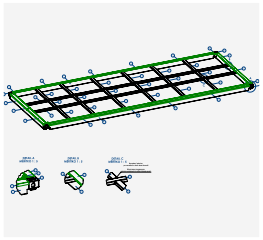
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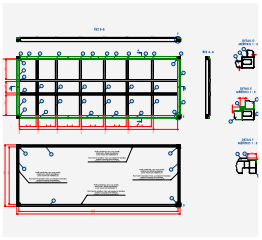
NURSING HOUSE, PONFERRADA, SPAIN

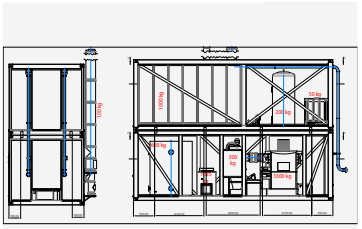


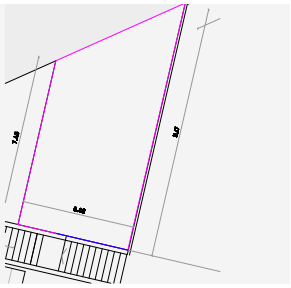


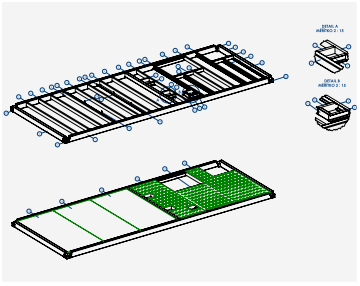


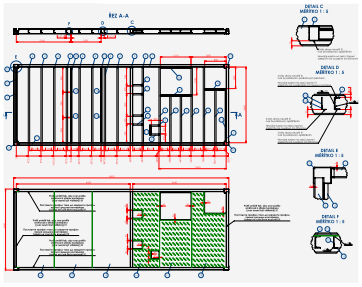












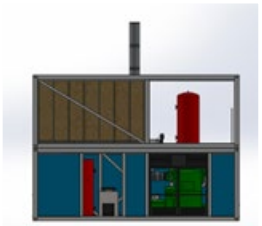
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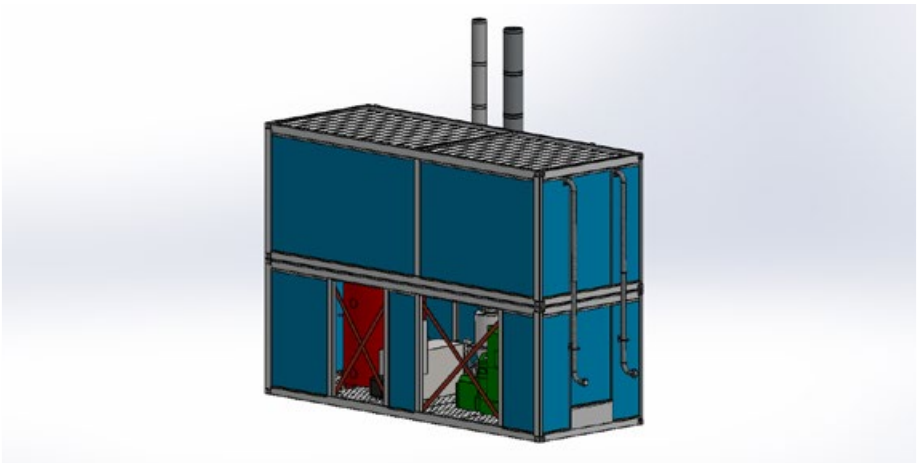
SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART DOUBLE-DECKER CABIN

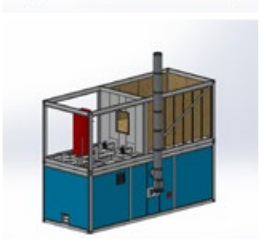
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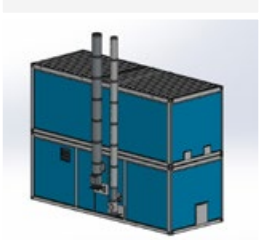
NURSING HOUSE, PONFERRADA, SPAIN

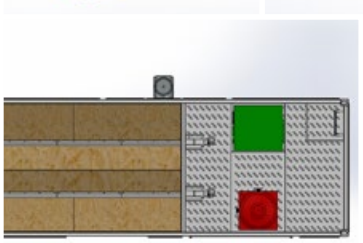


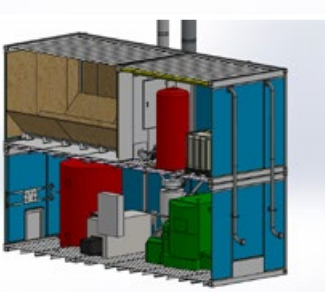


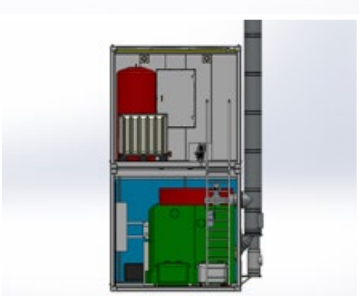


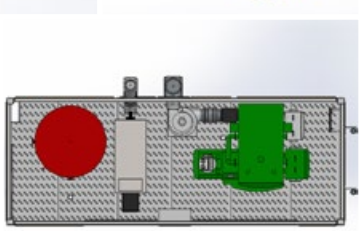












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SMART HEATING TECHNOLOGY

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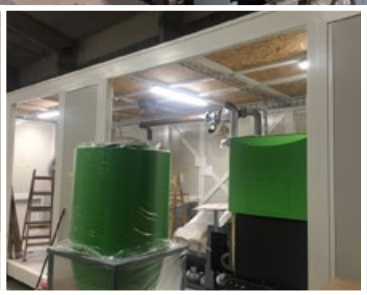
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NURSING HOUSE, PONFERRADA, SPAIN











SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

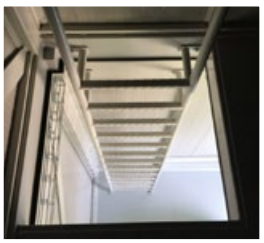
SMART REFERENCE LIST | SMART DOUBLE-DECKER CABIN

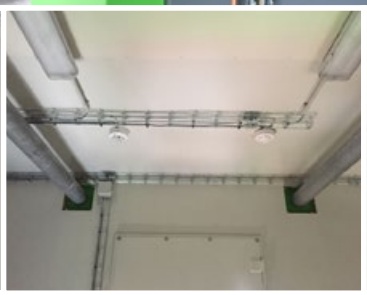
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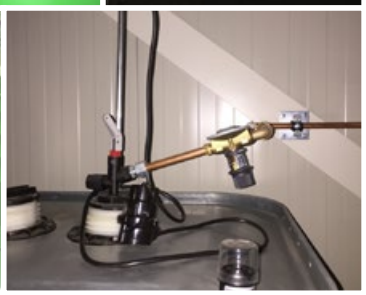
NURSING HOUSE, PONFERRADA, SPAIN











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NURSING HOUSE, PONFERRADA, SPAIN












SMART HEATING TECHNOLOGY

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NURSING HOUSE, PONFERRADA, SPAIN











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SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART MICRO CABIN 500 KW WITH SMART WOODCHIP/GRAIN DRYER

SPECIAL CONTAINERISED 500KW BOILER ROOM, DIMENSIONS 3,2 X 3 X 10,5 M, WOODCHIP FUEL SILO LOCATED INSIDE THE ADJACENT DRYER SHED, 200 KW WOODCHIP DRYING FLOOR WITH HYDRAULIC LOADING RAMP, 4 HEATING CIRCUITS; POULTRY SHED, WOODCHIP/GRAIN DRYER, WORKSHOP AND FARMHOUSE, COMPLETE WITH AUTOMATIC CONTROLS AND REMOTE WEB/ ICLOUD MONITORING, LOCATED, SCONE, PERTH, SCOTLAND














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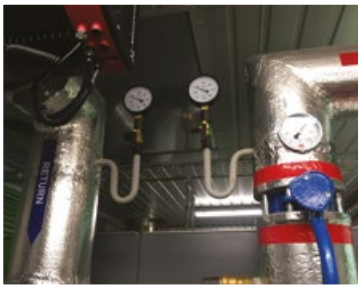
SMART REFERENCE LIST | SMART MICRO CABIN 500 KW WITH SMART WOODCHIP/GRAIN DRYER

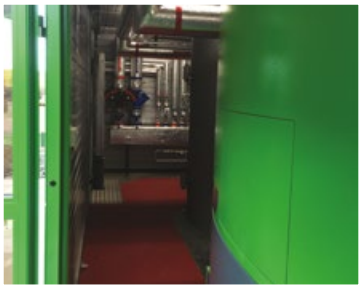
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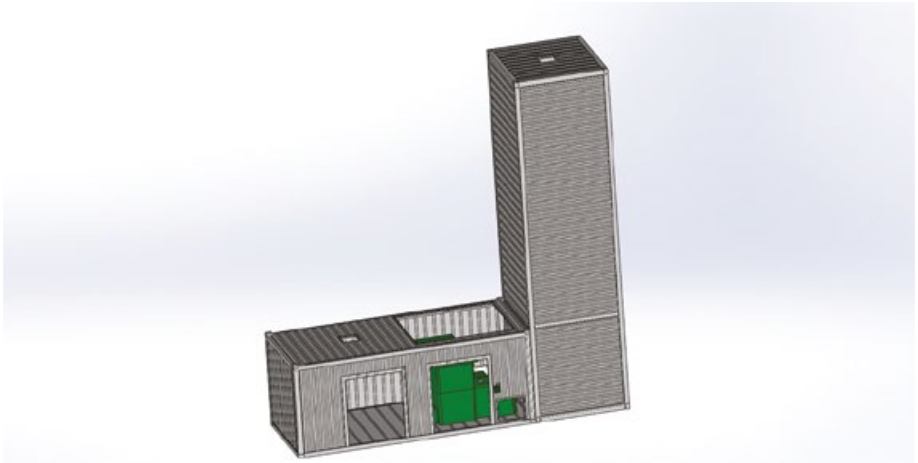



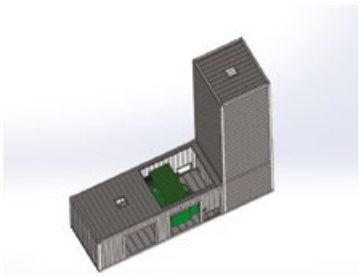
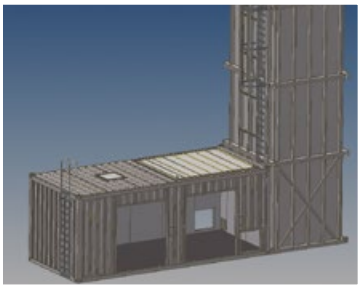


SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART MICRO CABIN 500 KW

WITH VERTICAL SILO 90 M³
WALHAMN, SWEDEN




SMART HEATING TECHNOLOGY

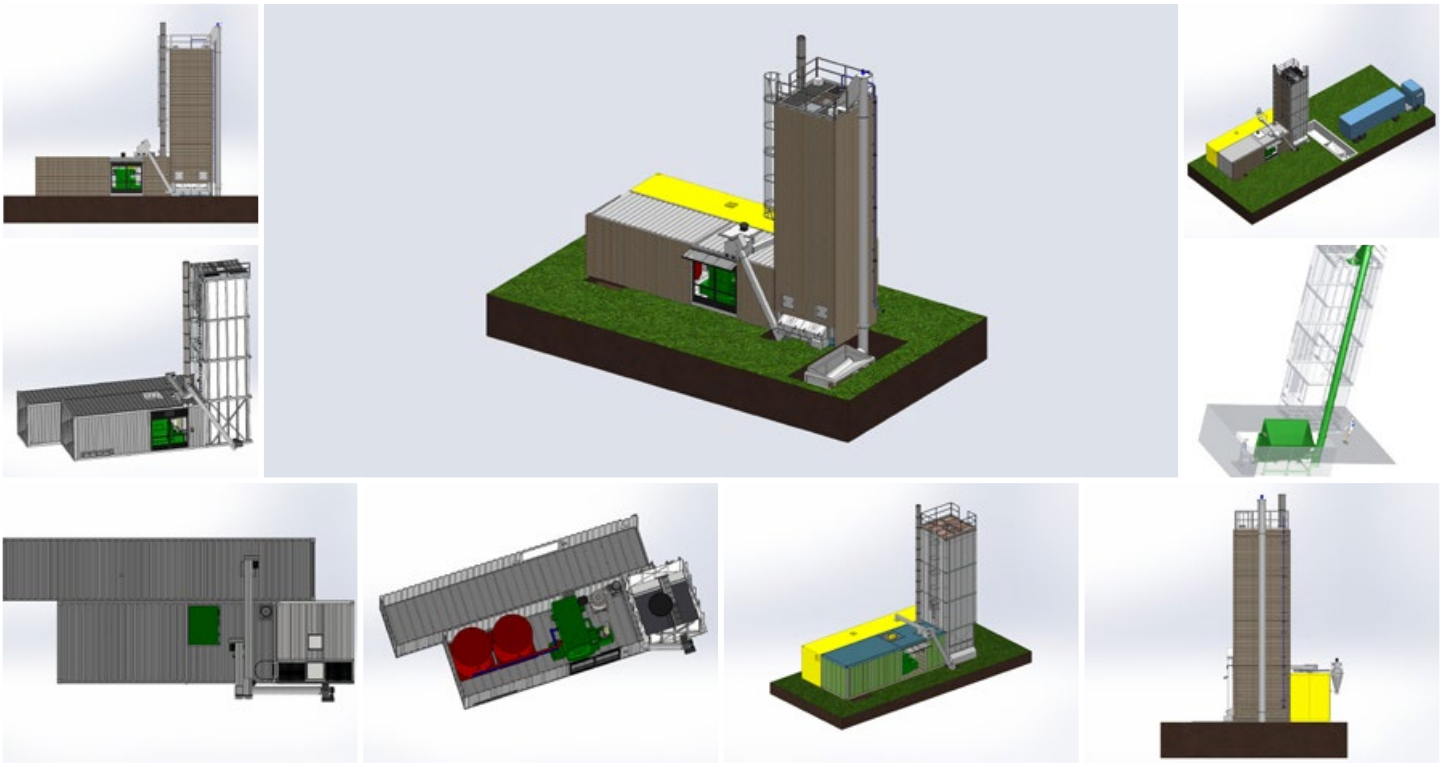
SMART HEATING TECHNOLOGY
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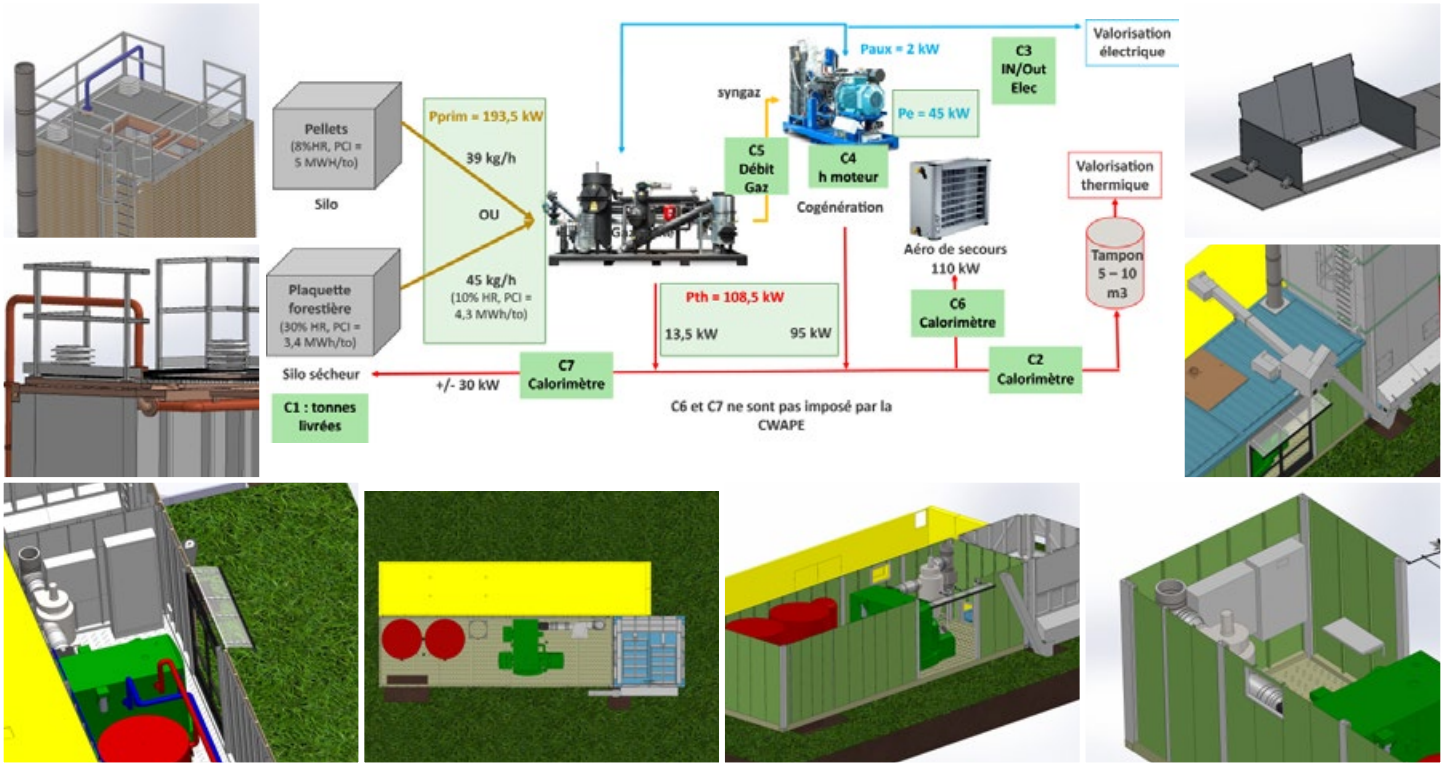
SMART MICRO CABIN 500 KW WITH VERTICAL SILO 100 M³
AND COGENERATION 100 KWE + 200 KW
WERSON CONTAINERIZED NURSING HOUSE, CRISNÉE, BELGIUM



SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY
SMART REFERENCE LIST I SMART SUPER CABIN SET

SMART MICRO CABIN 500 KW WITH VERTICAL SILO 100 M³
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WERSON CONTAINERIZED NURSING HOUSE, CRISNÉE, BELGIUM



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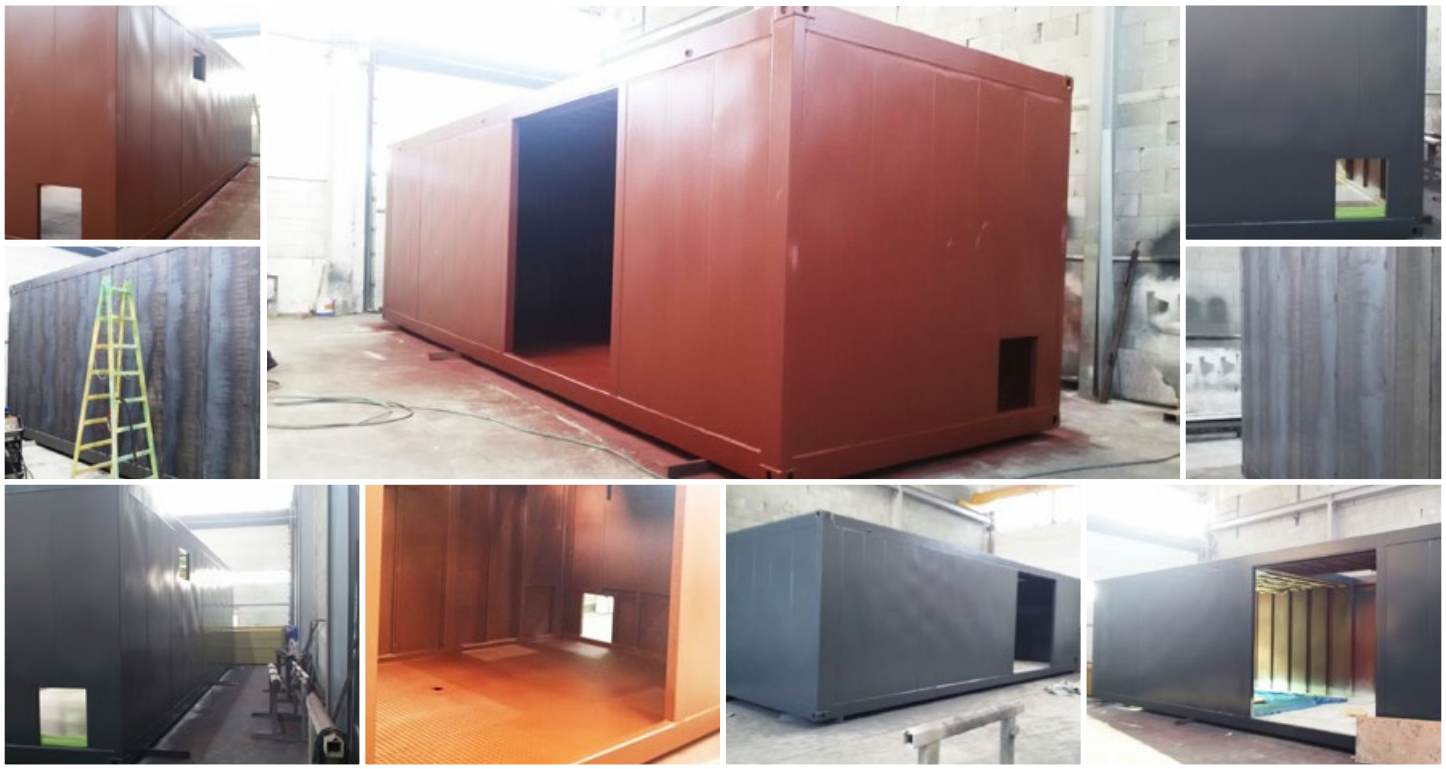
SMART MICRO CABIN 500 KW WITH VERTICAL SILO 100 M³
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WERSON CONTAINERIZED NURSING HOUSE, CRISNÉE, BELGIUM



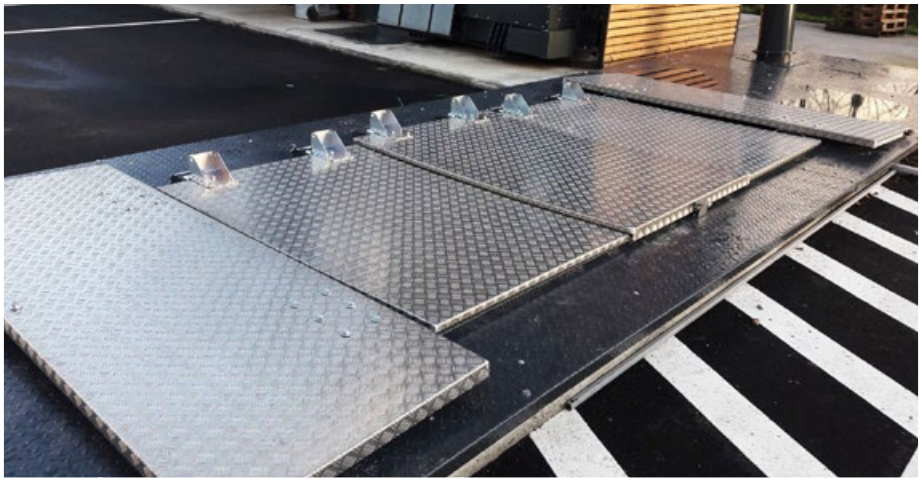
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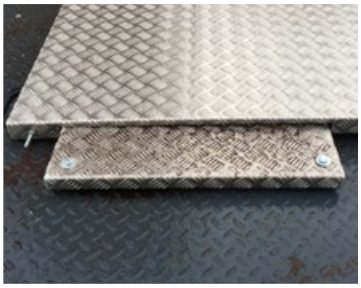
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WERSON CONTAINERIZED NURSING HOUSE, CRISNÉE, BELGIUM



SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART SELF-DRYING CABIN 500 KW

MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
WITH AUTOMATIC DRYING SILO FLOOR WITH COMPLETE REGULATION
RECYCLING PLANT, MERTHYR TYDFIL, WALES, UK









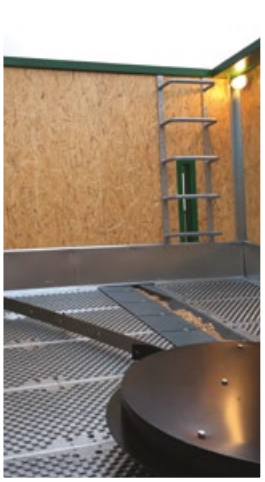


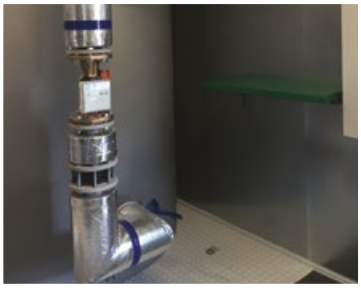
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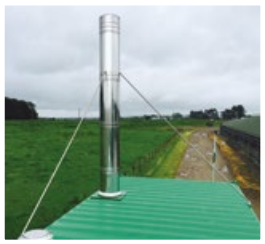
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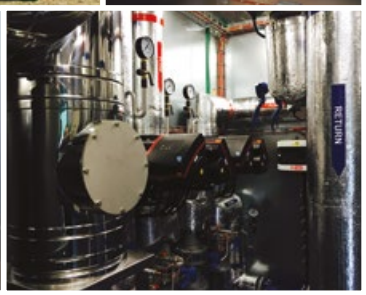
MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
2 HEATING CIRCUITS – FULLY MONITORED AND REGULATED
CHICKEN FARM, VL, SCOTLAND









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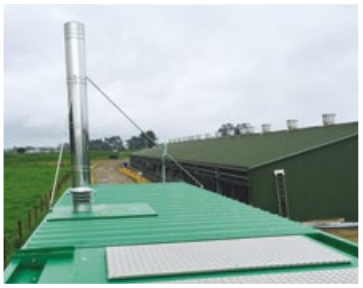
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MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
2 HEATING CIRCUITS – FULLY MONITORED AND REGULATED
CHICKEN FARM, EDZELL, SCOTLAND







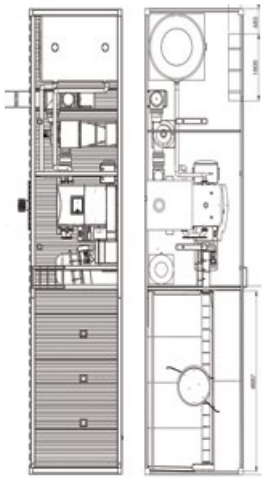


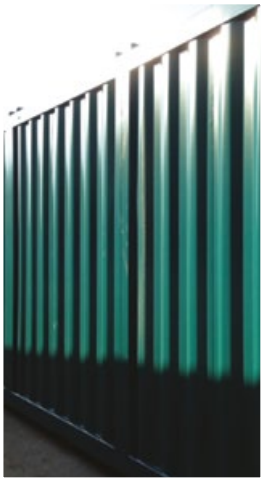
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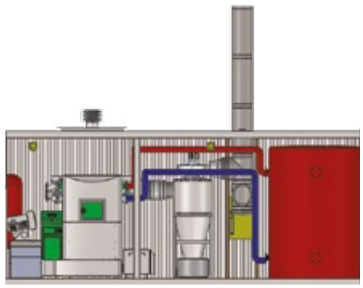
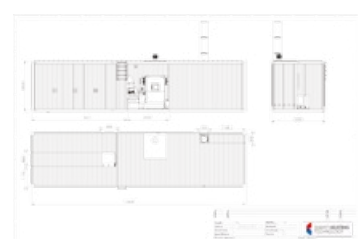
SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART CABIN 500 KW

MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED
CHICKEN FARM, CARNOUSTIE, SCOTLAND






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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED CHICKEN FARM, CARNOUSTIE, SCOTLAND



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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED CHICKEN FARM, CARNOUSTIE, SCOTLAND



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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED CHICKEN FARM, CARNOUSTIE, SCOTLAND



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SMART REFERENCE LIST | SMART CABIN 500 KW

MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 3 HEATING CIRCUITS WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, AUTOMOTIVE PARTS MANUFACTURER WAREHOUSE STORAGE HEATING MOHELNICE, CZECH REPUBLIC



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SMART REFERENCE LIST | SMART CABIN 500 KW

MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 3 HEATING CIRCUITS WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, AUTOMOTIVE PARTS MANUFACTURER WAREHOUSE STORAGE HEATING MOHELNICE, CZECH REPUBLIC



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SMART REFERENCE LIST | SMART CABIN 500 KW

MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED CHICKEN FARM, FORFAR, SCOTLAND



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MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION OF ALL HEATING CIRCUITS
WAREHOUSE TEMPERING, NEWPORT, WALES, UK



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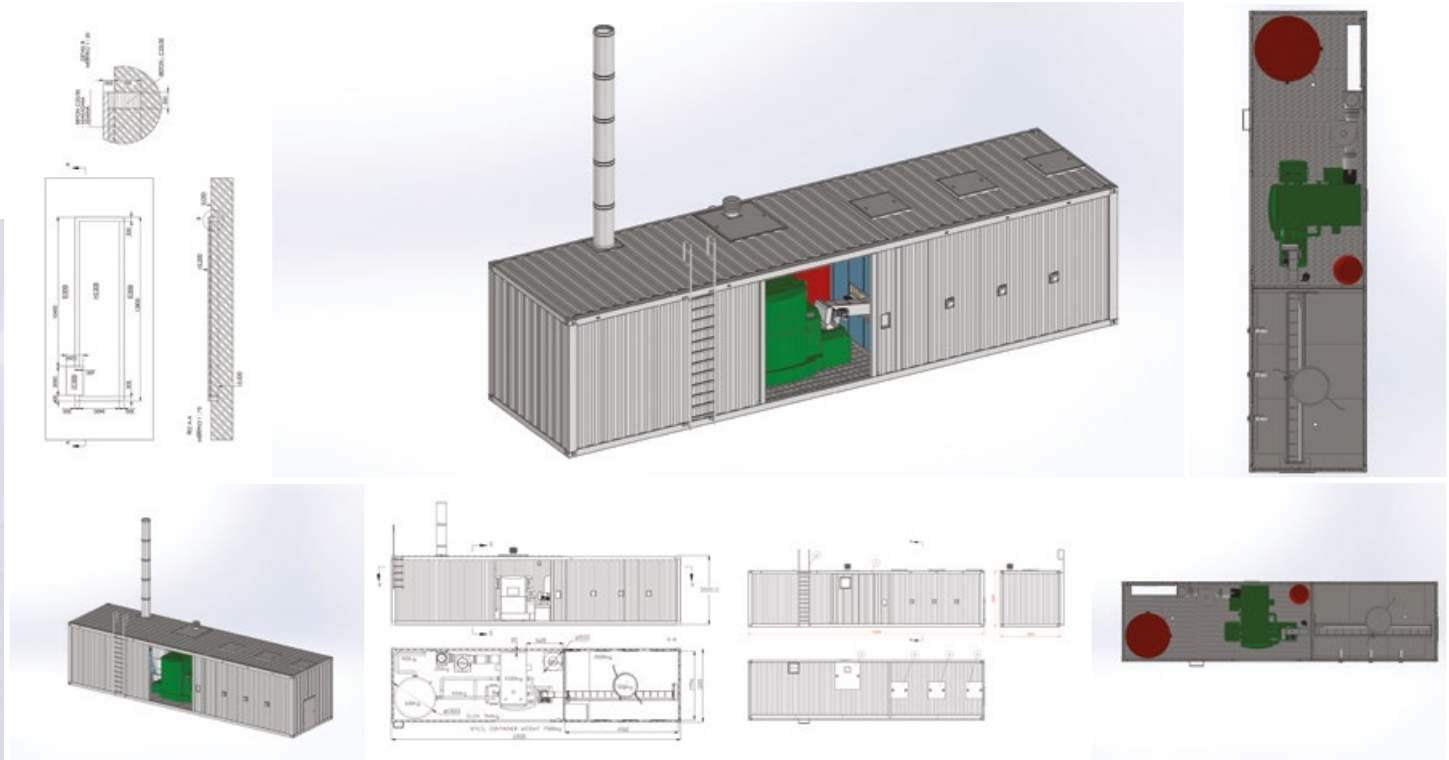
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WOOD PELLETS SILO DESIGN WITH EMERGENCY ROOF FILLING OUTLETS
1 HEATING CIRCUIT – FULLY MONITORED AND CONTROLLED APARTMENT HOUSE
DUMFRIES, SCOTLAND



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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE
REGULATION AND REMOTE ICLOUD VISUALIZATION, WOOD PRODUCING FACTORY
SAINT GERMAIN LES BELLES, FRANCE



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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, WOOD PRODUCING FACTORY SAINT GERMAIN LES BELLES, FRANCE



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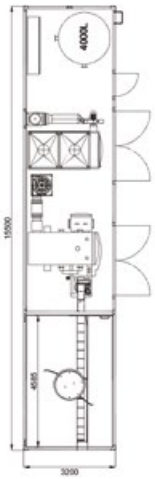
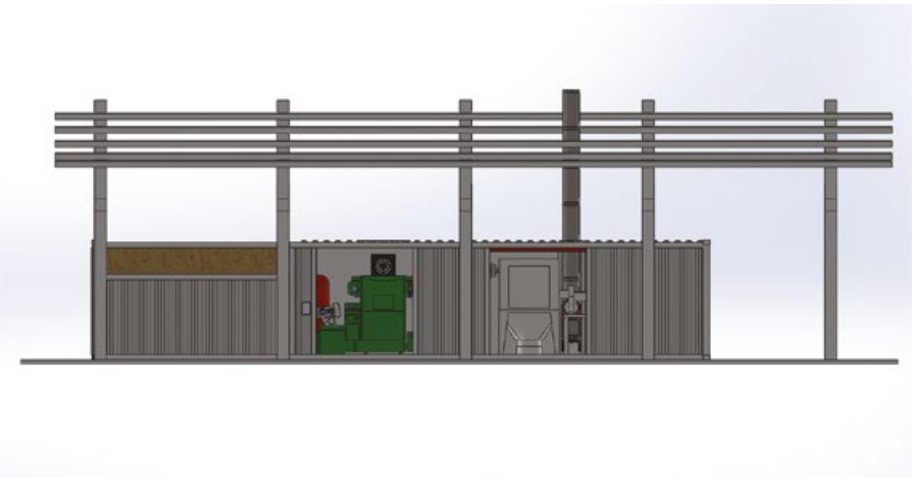


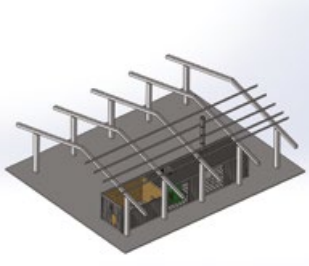
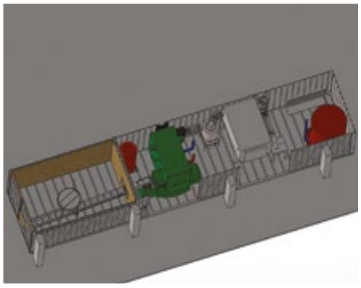
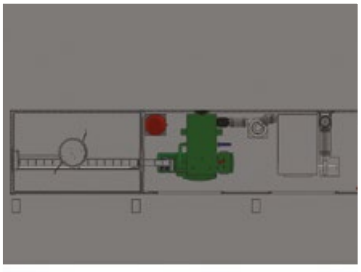
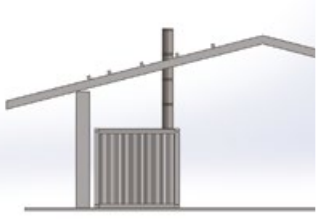


SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART MAGNUM CABIN 500 KW WITH SPECIAL FILTRATION UNIT WITH 1,1 MG/M³ EMISSION POLLUTION

MULTI–FUEL SILO DESIGN, WITH COMPLETE REGULATION AND REMOTE MONITORING OF SMALL DISTRICT HEATING, LOW EMISSION ZONE, LONDON, UK

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SMART REFERENCE LIST | SMART FARM PANEL CABIN 500 KW

SPECIAL STEEL STRUCTURE WITH KINGSPAN WALLS&ROOF PANELS, COVERING PLATES, ENTRY DOORS
MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF, 6000 L OF ACCUMULATION TANKS STORAGE
9 HEATING CIRCUITS WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALISATION
CHICKEN FARM, PORTOMARIN, SPAIN



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SMART REFERENCE LIST | SMART-ETHX PANEL CABIN 500 KW

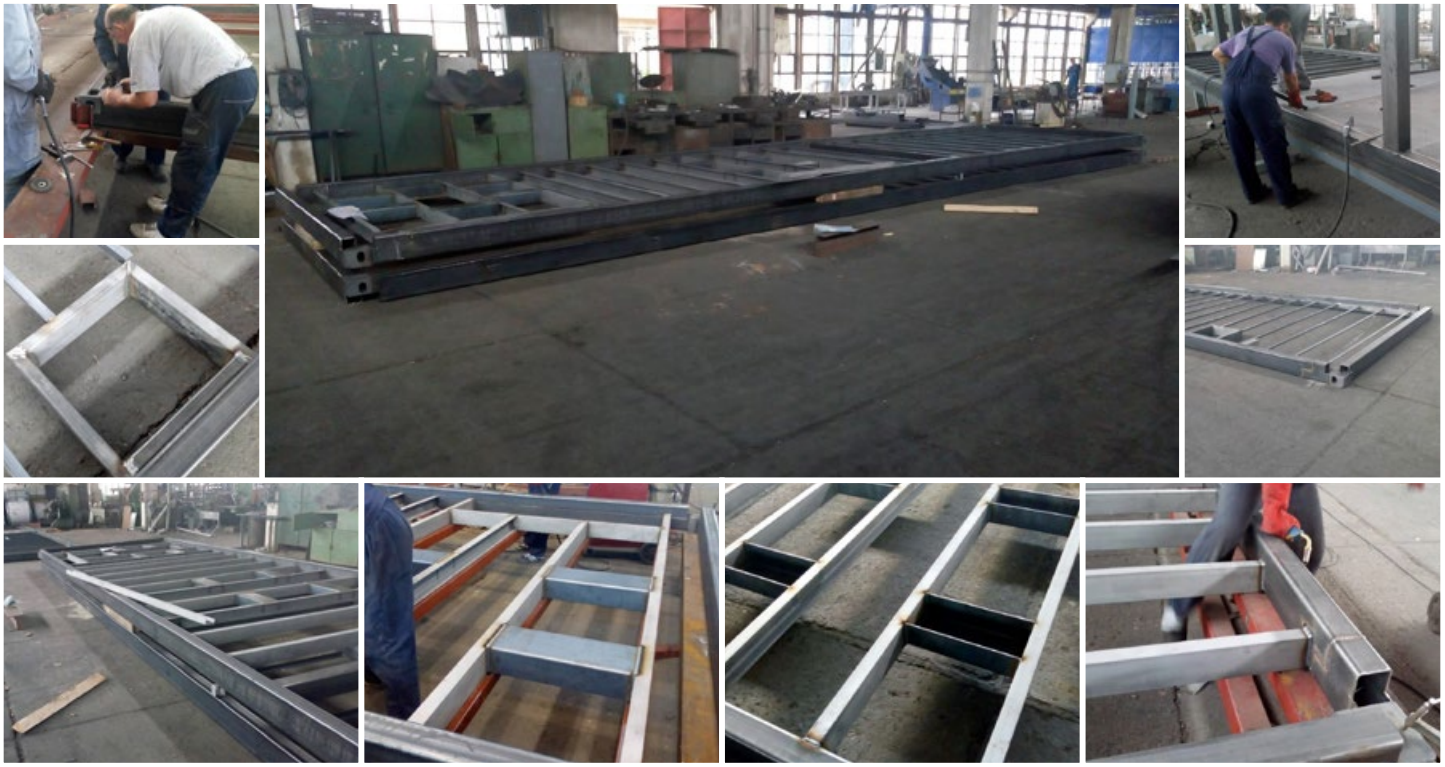
SPECIAL STEEL STRUCTURE WITH KINGSPAN WALL PANELS, COVERING PLATES, GLASS ENTRY DOORS, MULTI-FUEL SILO DESIGN WITH WOOD CHIPS BLOWING PIPES DN150 AND ROOF FILLING OUTLETS, 4000 L OF ACCUMULATION TANK STORAGE,
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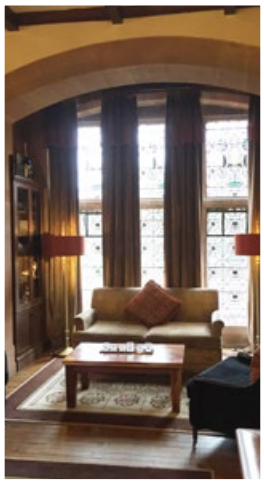


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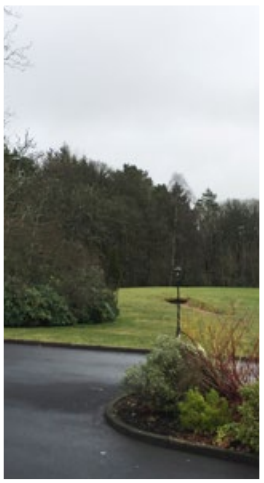
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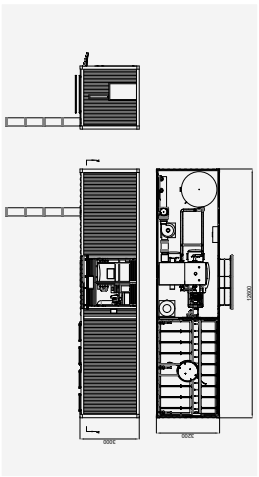


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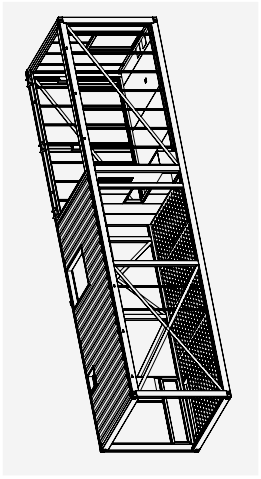
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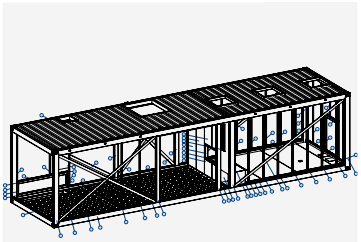
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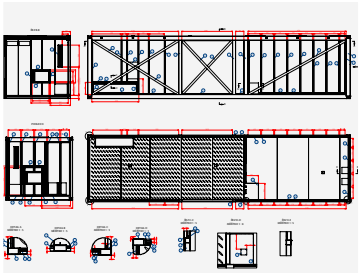
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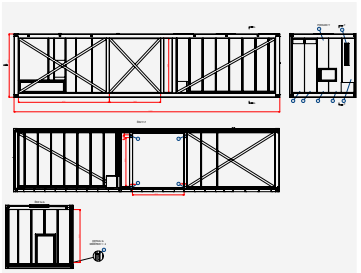


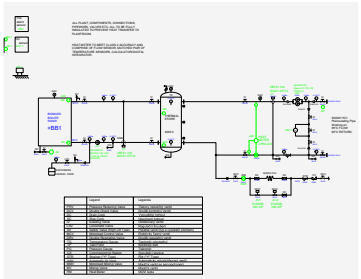










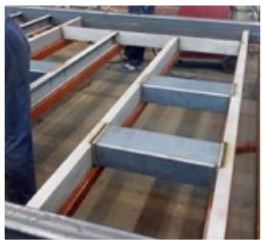


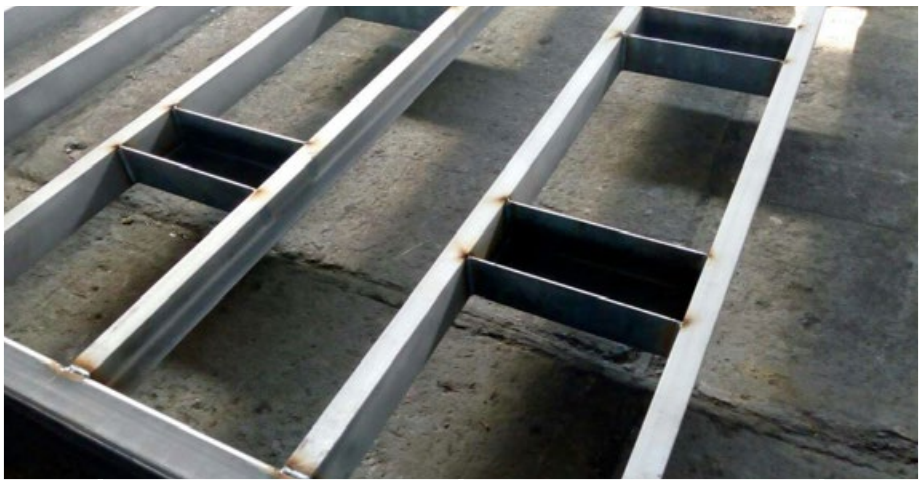
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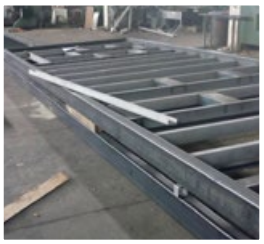
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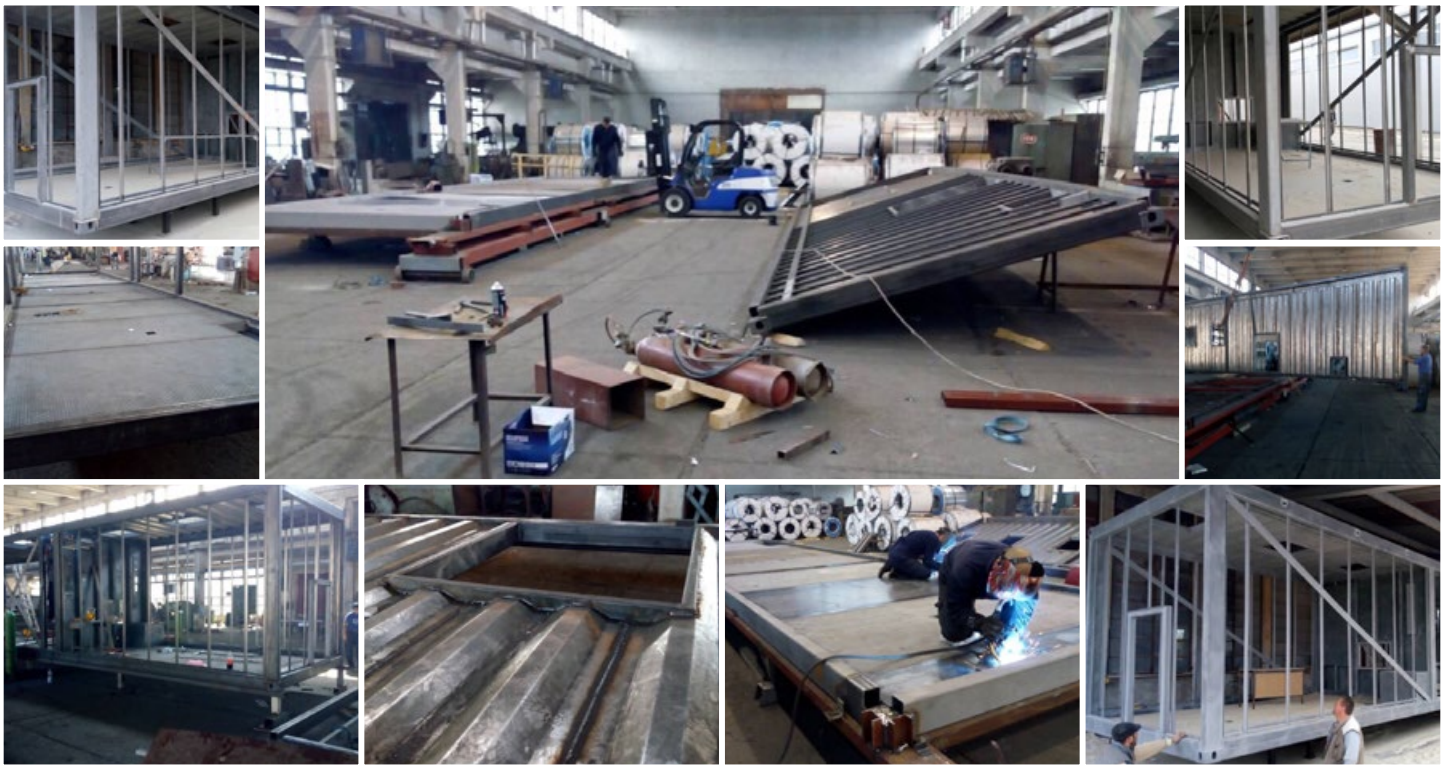


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SPECIAL STEEL STRUCTURE WITH KINGSPAN WALLS PANELS, COVERING PLATES, ENTRY DOORS, MULTI-FUEL SILO DESIGN WITH WOOD CHIPS BLOWING PIPES DN150 AND ROOF FILLING OUTLETS, 4000 L OF ACCUMULATION TANK STORAGE, 1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALISATION, SCHOOL HEATING, GLASGOW, SCOTLAND



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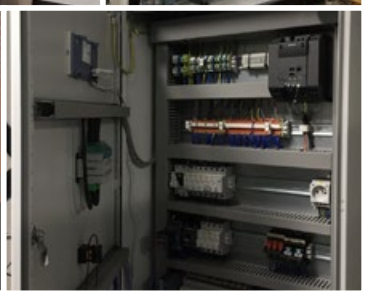
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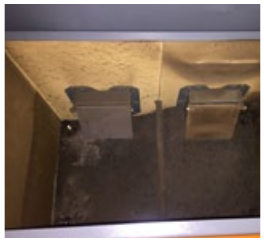
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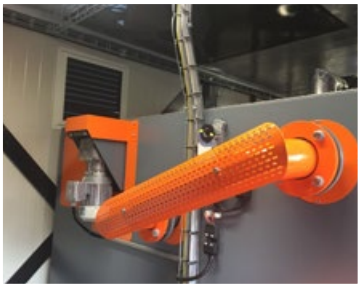
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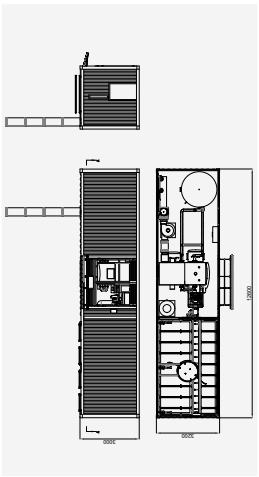


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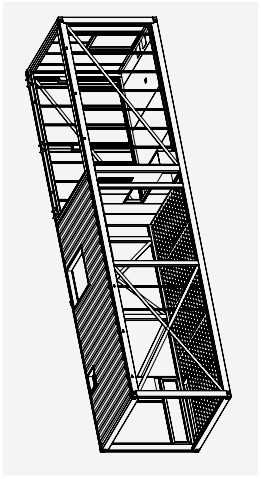
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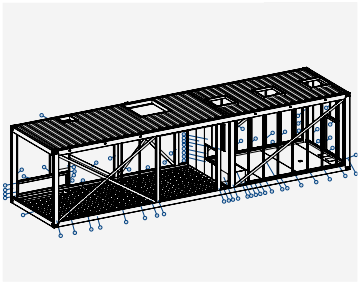
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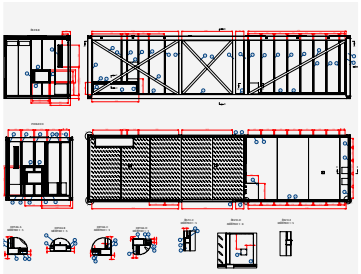
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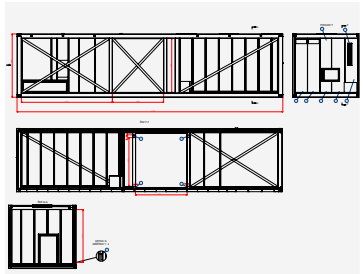


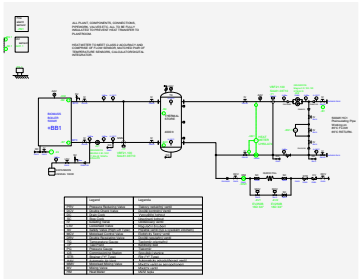












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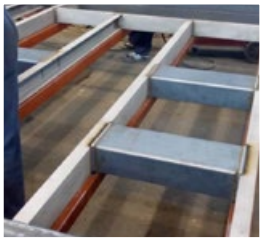
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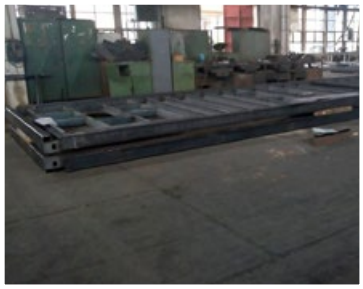




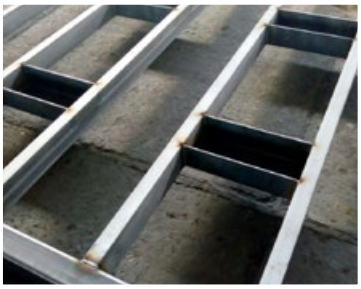














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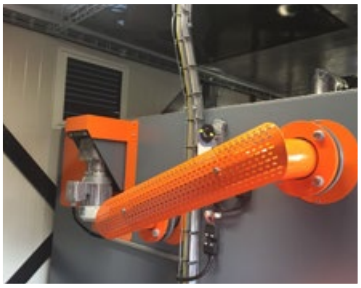
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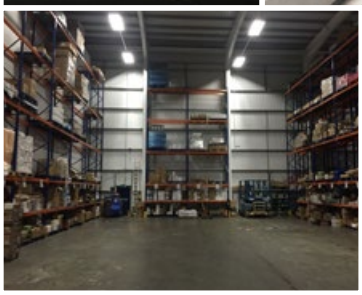
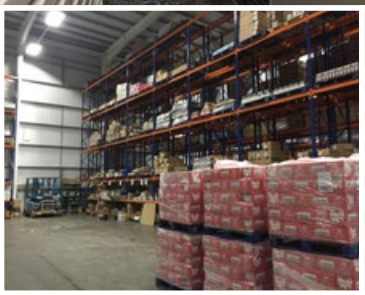
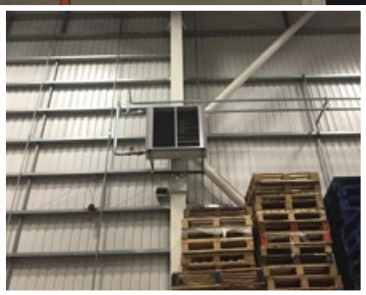
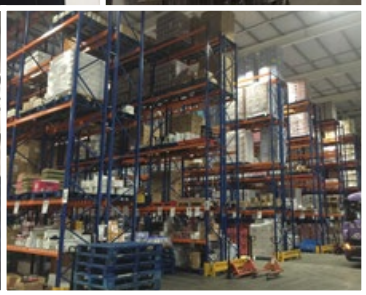
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SMART REFERENCE LIST | SMART GD ENVIRONMENTAL PANEL CABIN 500 KW

MULTI–FUEL SILO DESIGN, WITH COMPLETE REGULATION AND REMOTE MONITORING OF DRYING WASTE PROCESS, RECYCLING PLANT, NEWPORT, UK



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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF WITH AUTOMATIC DRYING SILO FLOOR WITH COMPLETE REGULATION DRYING FACILITY, AMMANDFORD, WALES



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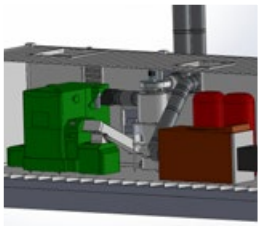
SMART REFERENCE LIST I SMART MAGNUM CABIN WITH BIOMASS-OIL COMBINATION 350 KW + 550 KW

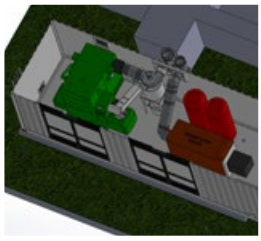
3,2 X 3 X 13,8 M SMART MAGNUM CABIN WITH 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1+1 HEATING CIRCUIT, 2 X 12 M
CHIMNEY + CHIMNEY STRUCTURE, MULTI-FUEL CONVEYOR CONNECTED TO AN EXISTING SILO WITH MOVING FLOOR
SCHOOL HEATING + APARTMENT BUILDING HEATING, LILLEHAMMER, NORWAY

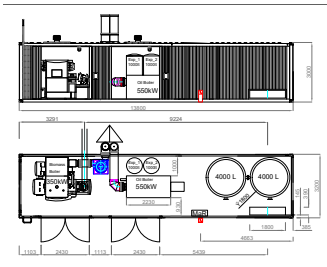




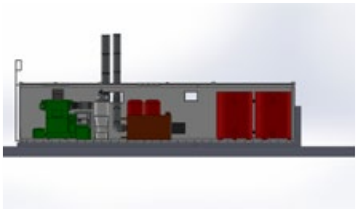


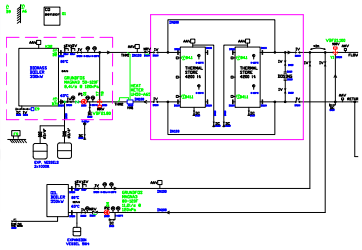






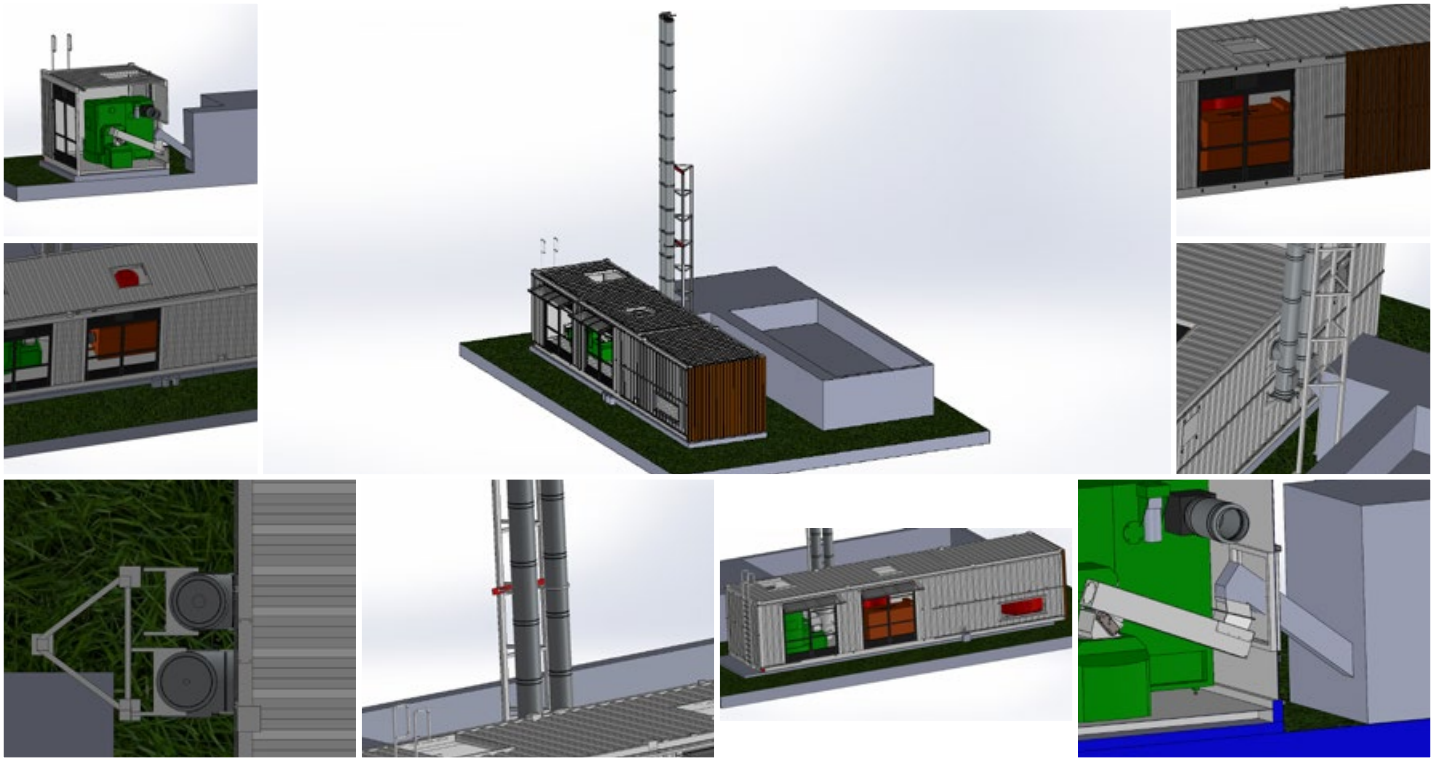






SMART REFERENCE LIST | SMART MAGNUM CABIN WITH BIOMASS–OIL COMBINATION 350 KW + 550 KW

3,2 X 3 X 13,8 M SMART MAGNUM CABIN WITH 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1+1 HEATING CIRCUIT, 2 X 12 M CHIMNEY + CHIMNEY STRUCTURE, MULTI-FUEL CONVEYOR CONNECTED TO AN EXISTING SILO WITH MOVING FLOOR
SCHOOL HEATING + APARTMENT BUILDING HEATING, LILLEHAMMER, NORWAY



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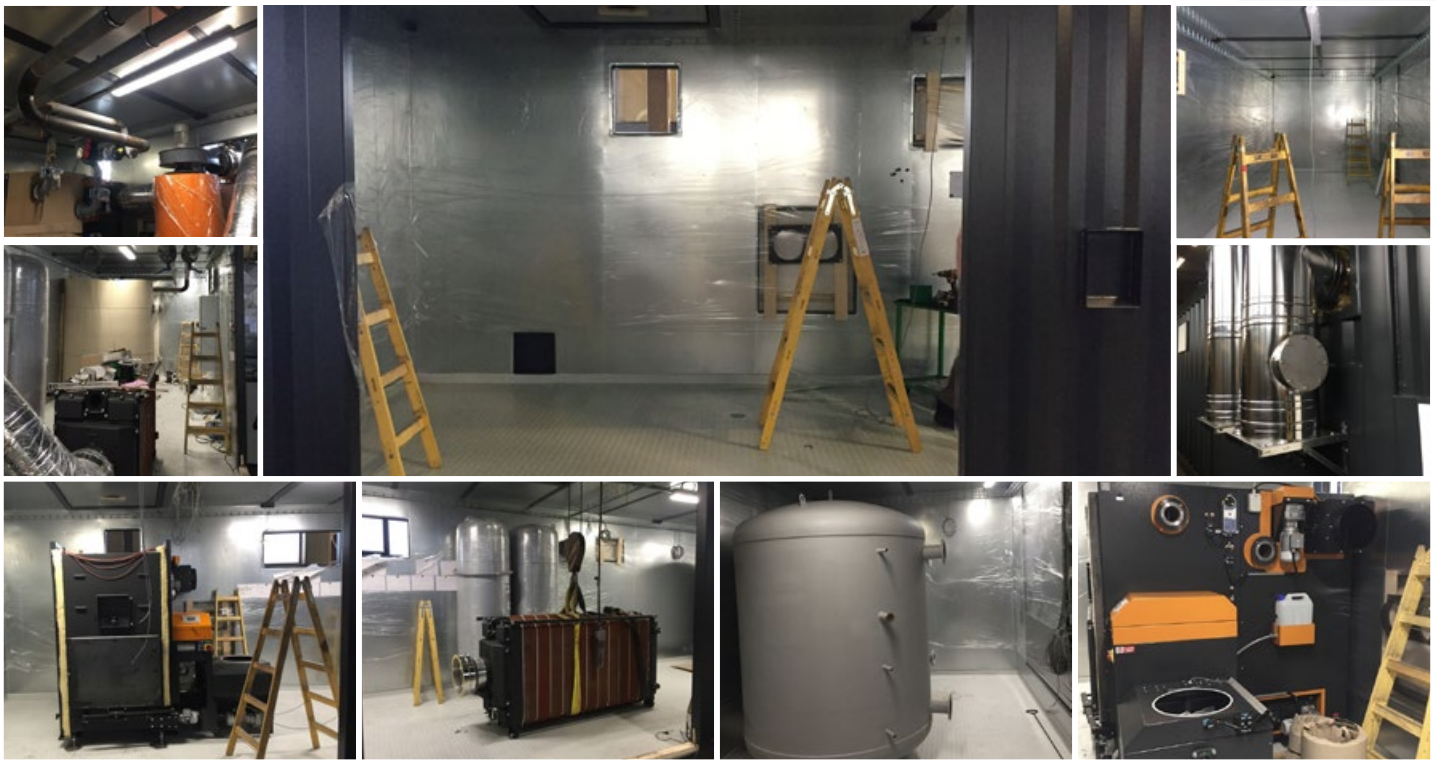


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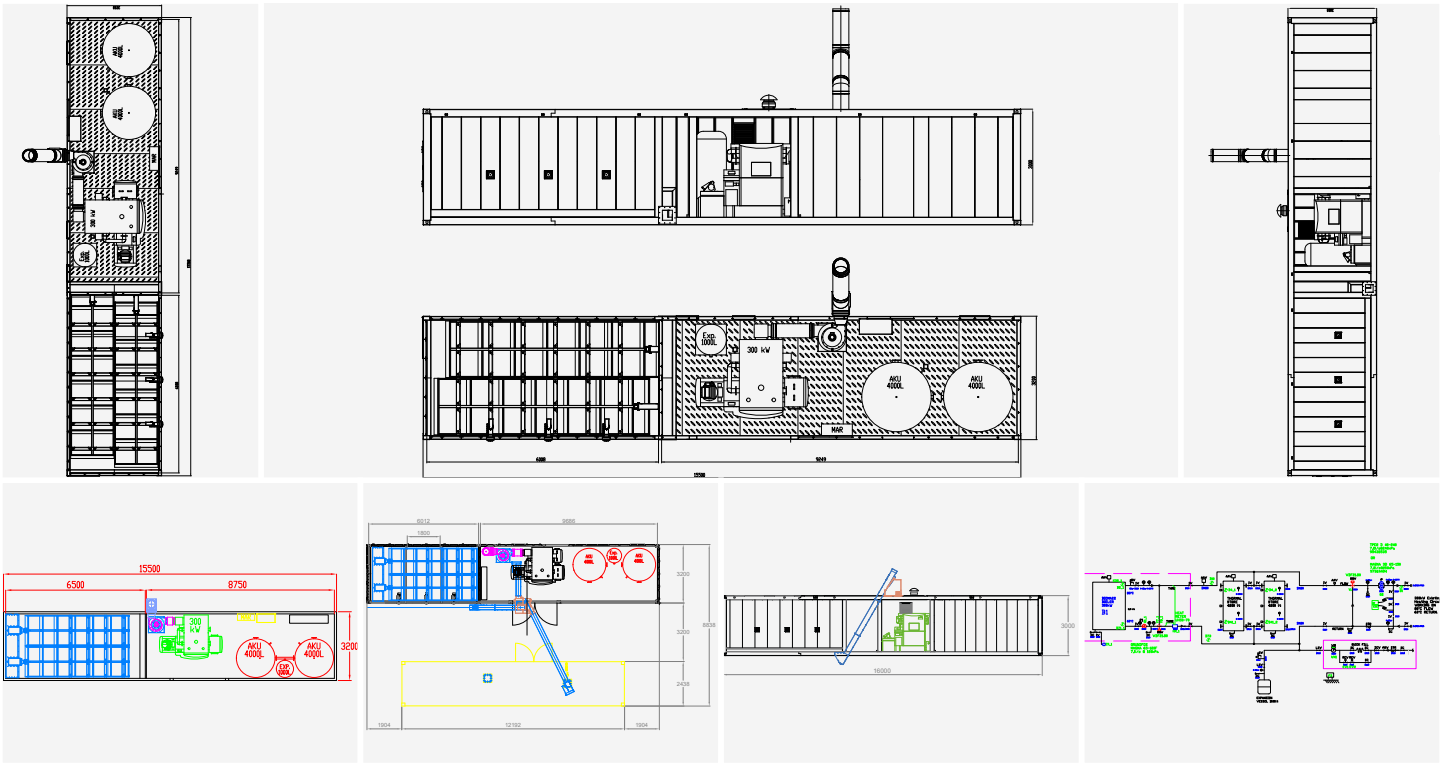
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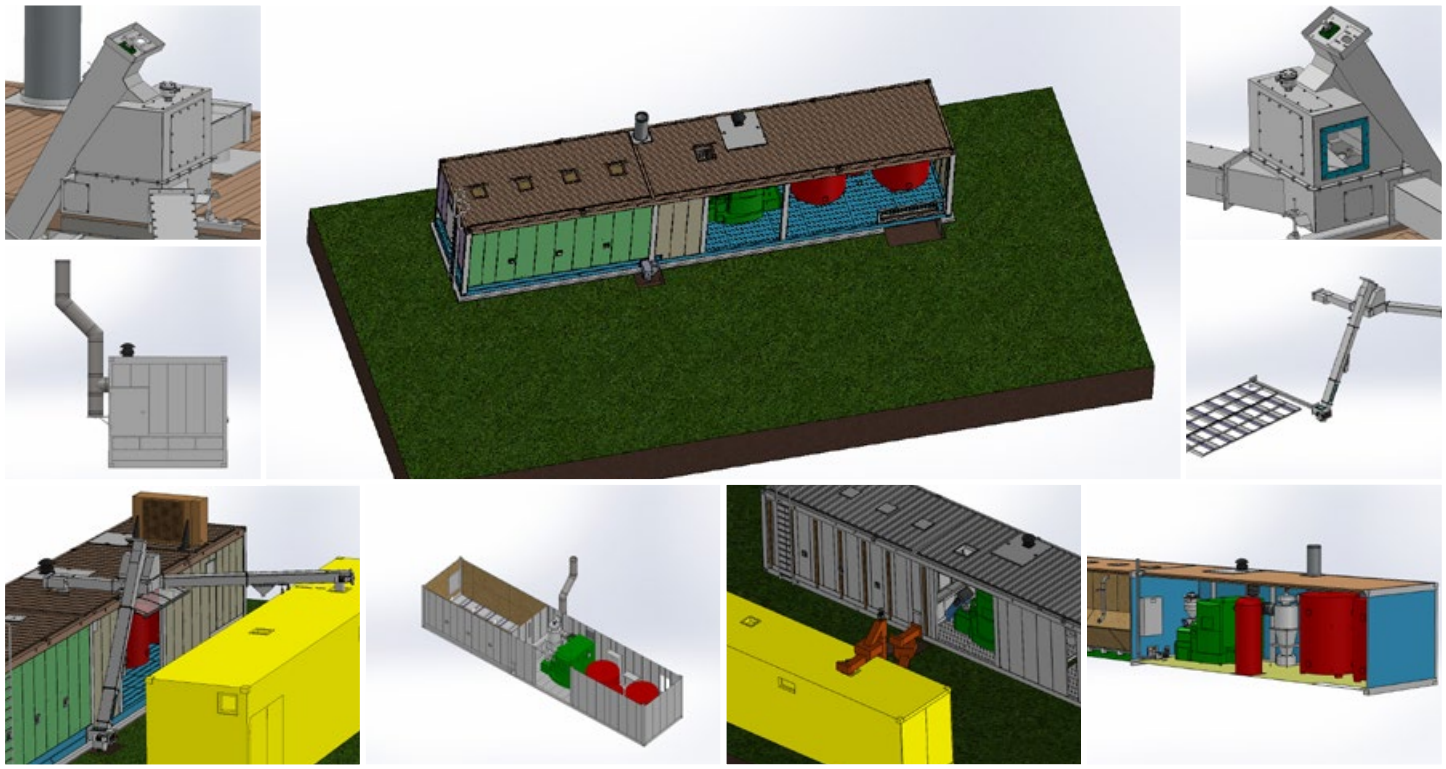
SMART SUPER MAGNUM CABIN 3,2 X 3 X 16 M, WITH 300 KW BIOMASS BOILER SMART, HORIZONTAL PELLETS SILO WITH MOVING FLOOR, 8000 L OF ACCUMULATION TANKS STORAGE, SET OF EXTERNAL CONVEYORS, CONNECTION WITH COGENERATION 100 KWE + 200 KW, ST. MARIE SCHOOL, NAMUR, BELGIUM



SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST I SMART SUPER MAGNUM CABIN

SMART SUPER MAGNUM CABIN 3,2 X 3 X 16 M, WITH 300 KW BIOMASS BOILER SMART, HORIZONTAL PELLETS SILO WITH MOVING FLOOR, 8000 L OF ACCUMULATION TANKS STORAGE, SET OF EXTERNAL CONVEYORS, CONNECTION WITH COGENERATION 100 KWE + 200 KW, ST. MARIE SCHOOL, NAMUR, BELGIUM



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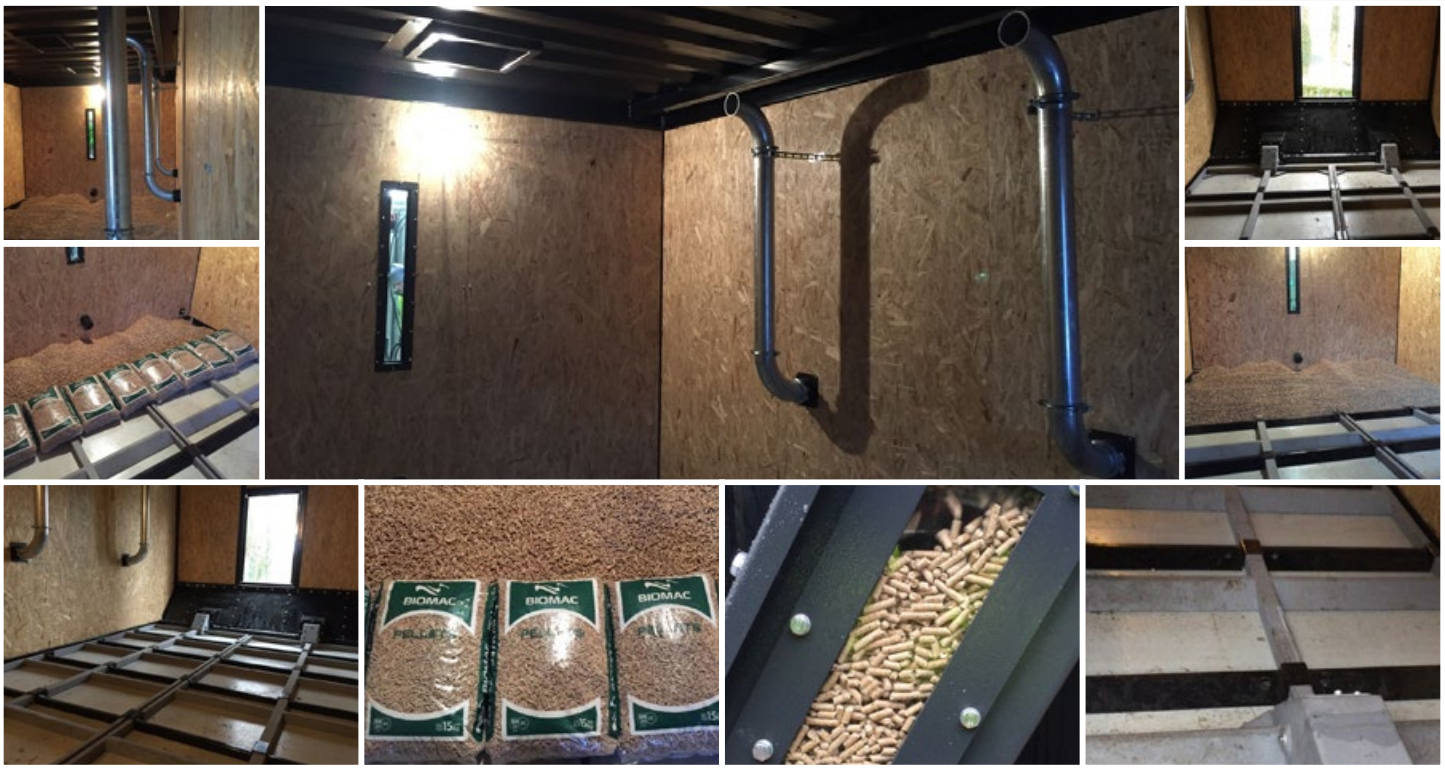
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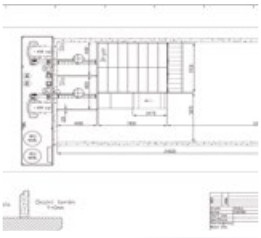
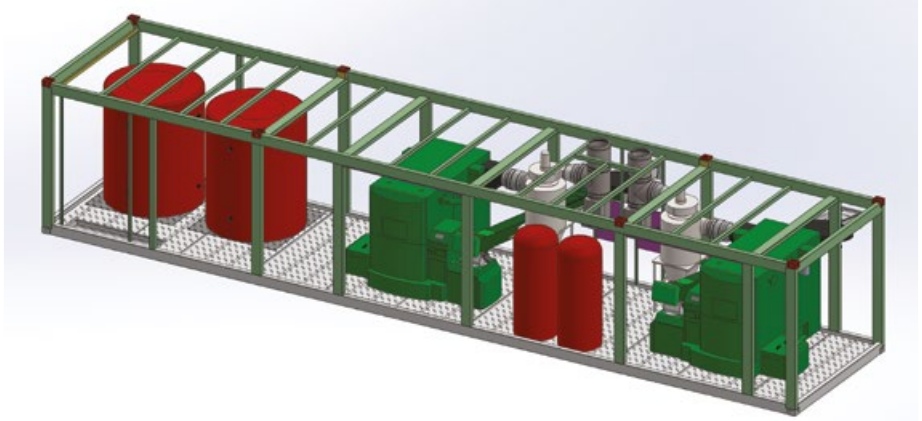
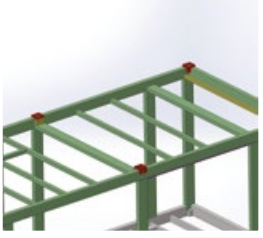
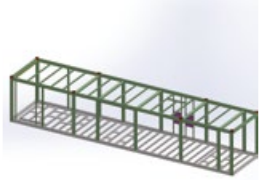


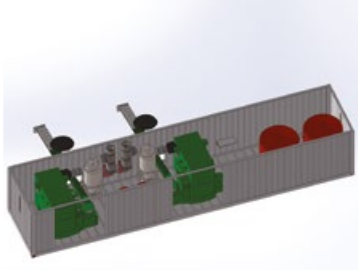


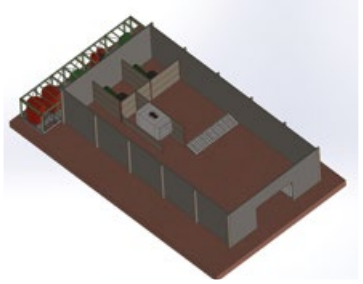
SMART HEATING TECHNOLOGY

SMART REFERENCE LIST I SMART MAGNUM CABIN 2 X 500 KW WITH SMART WOODCHIP/GRAIN DRYER

SPECIAL CONTAINERISED 2X 500KW BOILER ROOM, DIMENSIONS 3,2 X 3 X 15,5 M, WOODCHIP FUEL SILO LOCATED INSIDE THE ADJACENT DRYER SHED, 300 KW WOODCHIP DRYING FLOOR WITH HYDRAULIC LOADING RAMP, 200KW DRYING CONTAINER, 6 HEATING CIRCUITS; WOODCHIP/GRAIN DRYER, DRYING CONTAINER, WORKSHOP, FARMHOUSE, HOUSE AND COTTAGE, COMPLETE WITH AUTOMATIC CONTROLS AND REMOTE WEB/ICLOUD MONITORING, LOCATED, GLENFARG, PERTH, SCOTLAND



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SMART HEATING TECHNOLOGY

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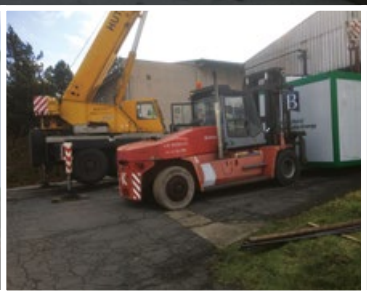
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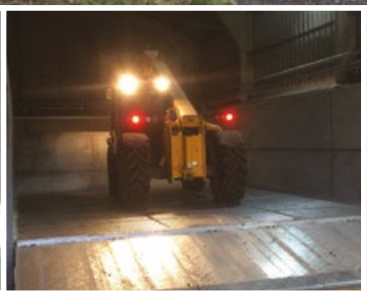
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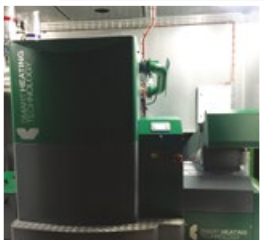
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SMART REFERENCE LIST | SMART MAGNUM CABIN 1 000 KW

MULTI-FUEL SILO DESIGN WITH 2 X HYDRAULIC ROOFS
2 X 500 KW CASCADE INSTALLATION, 2 X 4000 L ACCUMULATION TANKS
GRAIN DRYING PLANT, LAURENCEKIRK, SCOTLAND











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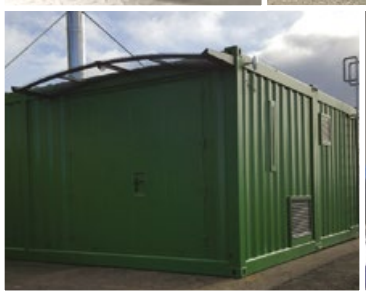
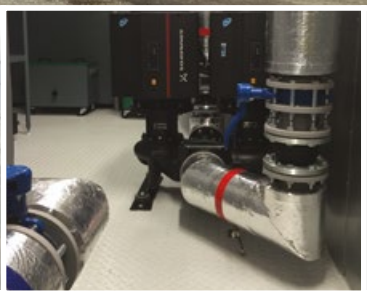
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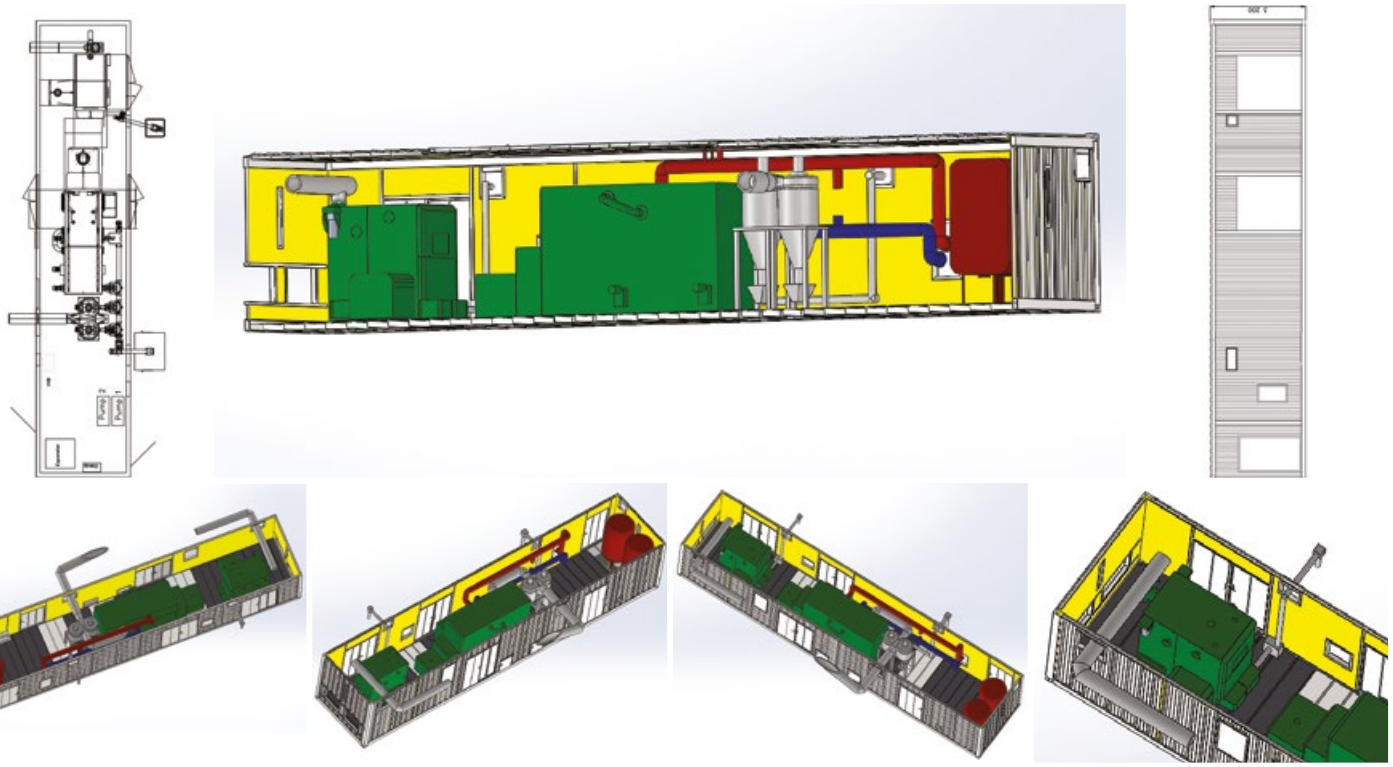




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SMART REFERENCE LIST | SMART MAGNUM CABIN 1 250 KW
WITH CONTAINERIZED MULTI–FUEL SILO WITH HYDRAULIC ROOF AND MOVING FLOOR
STORA SEGERSTAD COLLEGE, SWEDEN



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WITH CONTAINERIZED MULTI–FUEL SILO WITH HYDRAULIC ROOF AND MOVING FLOOR
STORA SEGERSTAD COLLEGE, SWEDEN



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SMART REFERENCE LIST | SMART MAGNUM CABIN 1 250 KW

WITH CONTAINERIZED MULTI–FUEL SILO WITH HYDRAULIC ROOF AND MOVING FLOOR
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SMART HEATING TECHNOLOGY
SMART REFERENCE LIST | SMART MAGNUM CABIN 2000 KW
WITH HORIZONTAL WOOD PELLETS SILO 100 M³



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SMART **HEATING** TECHNOLOGY
Bosnia







KAKO SARAĐUJEMO SA NAŠIM KLIJENTIMA
Smart Heating Technology s.r.o.

1. Ocena trenutnog stanja
2. Izrada tehničkog rešenja
3. Obračun troškova i povraćaja

Detaljno analiziramo

4. Precizna proizvodnja
5. Isporuka i montaža

Proizvodimo po meri

6. Praćenje instalacija 24/7
7. Periodično servisiranje i održavanje
8. Snabdevanje gorivom

Brinemo se o našim klijentima

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U Statku 653/24, 717 00 Ostrava-Bartovice
Češka
www.SmartHeating.cz

Za više informacija o tehničkim rešenjima i cenama,
obratite se našoj službi prodaje:
Telefon: +420 777 960 560
+420 734 751 655
+420 777 258 481
Email: Sales@SmartHeating.cz
Info@SmartHeating.cz

Partner: