SMART **HEATING**
TECHNOLOGY

South Korea



SMART HEATING TECHNOLOGY

MARKETING & REFERENCE BOOK 2019/2020

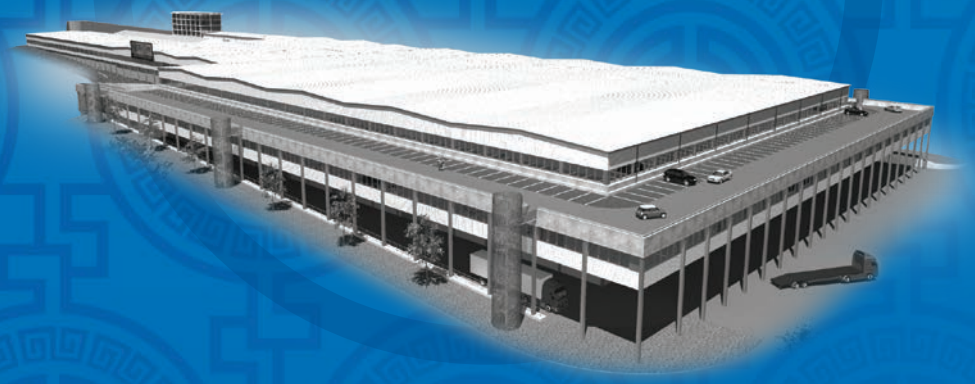
STC
SMART TRADING COMPANY

SMART HEATING TECHNOLOGY

Smart Painting



www.smartheating.cz



SMART INDUSTRIAL PARK

Ostrava-Bartovice, Czech Republic

Smart Industrial Park is situated in the proximity of the 3rd largest city of the Czech Republic, with direct connection to international highways which can be used for effective goods transportation to Austria, Germany, Italy, France and other European countries.

Strong advantage is also location of one of the largest raw material supplier – Arcelor Mittal Ostrava, which is situated about 1 km from the Park.

Shipments can be assured by own truck transportation.

SMART INDUSTRIAL PARK

Ostrava-Bartovice, Czech Republic

Reliable and reputable suppliers of foreign and domestic partners in engineering production. Quality and flexible delivery of products and services from prototype through small, medium and large volume orders.

ESTABLISHED:	**2001**
PRODUCTION AREA:	**18 000 m²**
NUMBER OF EMPLOYEES:	**300**

COMPANIES „UNDER ONE ROOF“

SMART **HEATING** TECHNOLOGY



* Subject to a Fuel Composition, and Testing!

SMART HEATING TECHNOLOGY s.r.o.

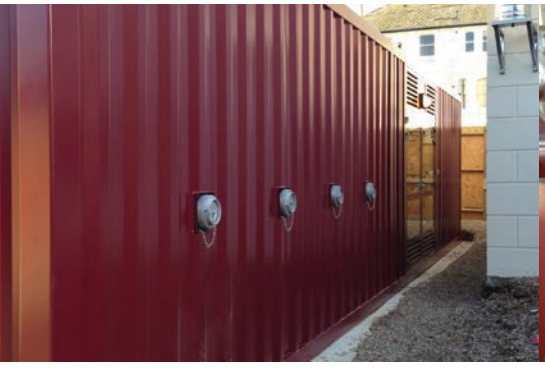
- Designer and manufacturer of complete heating solutions and its accessories
- Automatic Biomass Boilers Smart 60 – 100 kW
- Automatic Biomass Boilers Smart 150 – 500 –1500 kW
- Mobile & Pre-Manufactured Boiler Houses
- Special Fuel Conveyors and Silo Solutions
- Heating Circuits Hydraulic Measuring & Regulation Systems
- Special Filtration Units
- OEM Products Manufacturer



Efficiency 96 %
Mobile phone control
Internet control



TECHNICAL DATA OF SMART BOILERS										
Marking		150	180	220	250	300	350	400	450	500
Nominal power Pn	kW	150	180	220	250	300	350	400	450	500
Partial load (power) Pp	kW	40	45	55	65	75	90	100	115	140
Boiler efficiency at Pn	%	95	95	95	95	95	95	95	95	95
Boiler efficiency at Pp	%	96	96	96	96	96	96	96	96	96
Boiler class		5	5	5	5	5	5	5	5	5







SMART TRADING COMPANY

SMART TRADING COMPANY s.r.o.

- Manufacturer of wide spectrum of metal sheet mechanical components using CNC technology:
- Telecommunication cabinets (indoor/outdoor)
- Casings and structural mechanical components for electronics
- Structural frames, metal sheet coverings, heavy-current electrical components for power industry and telecommunication
- Electrical engineering copper items
- Industrial shelf storing systems
- Various boilers coverings









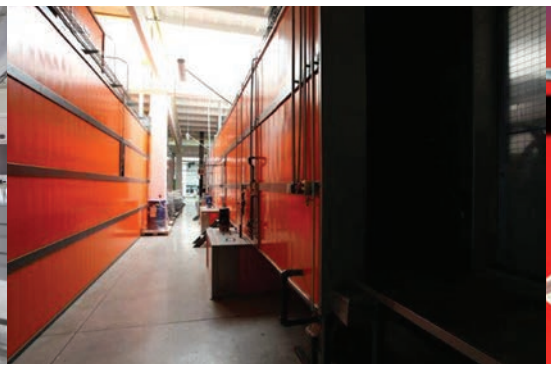


Smart Painting

SMART PAINTING s.r.o.

- Powder painting within continuous, full-automatic painting line
- Powder painting within 6 manual application cells
- Silkscreen printing
- Wet paint application, 2 cells
- Cut graphics (self-adhesive foil)







Other Manufacturing Processes “under one roof”:

- Welding and grinding (TIG, MIG methods, point welding, robotic laser welding)
- Drilling, tapping, turning, milling, surface grinding
- Fitting works, semi-automatic fasteners pressing, riveting
- Final assembly works, insulation and gaskets application
- Entire copper parts processing
- Metal sheets protective foil application
- Hard tooling (160 tons presser)
- Surface treatments: powder and liquid painting, zinc coating, tin coating, nickel coating, anodizing
- 3D visualization and design

SMART **HEATING** TECHNOLOGY

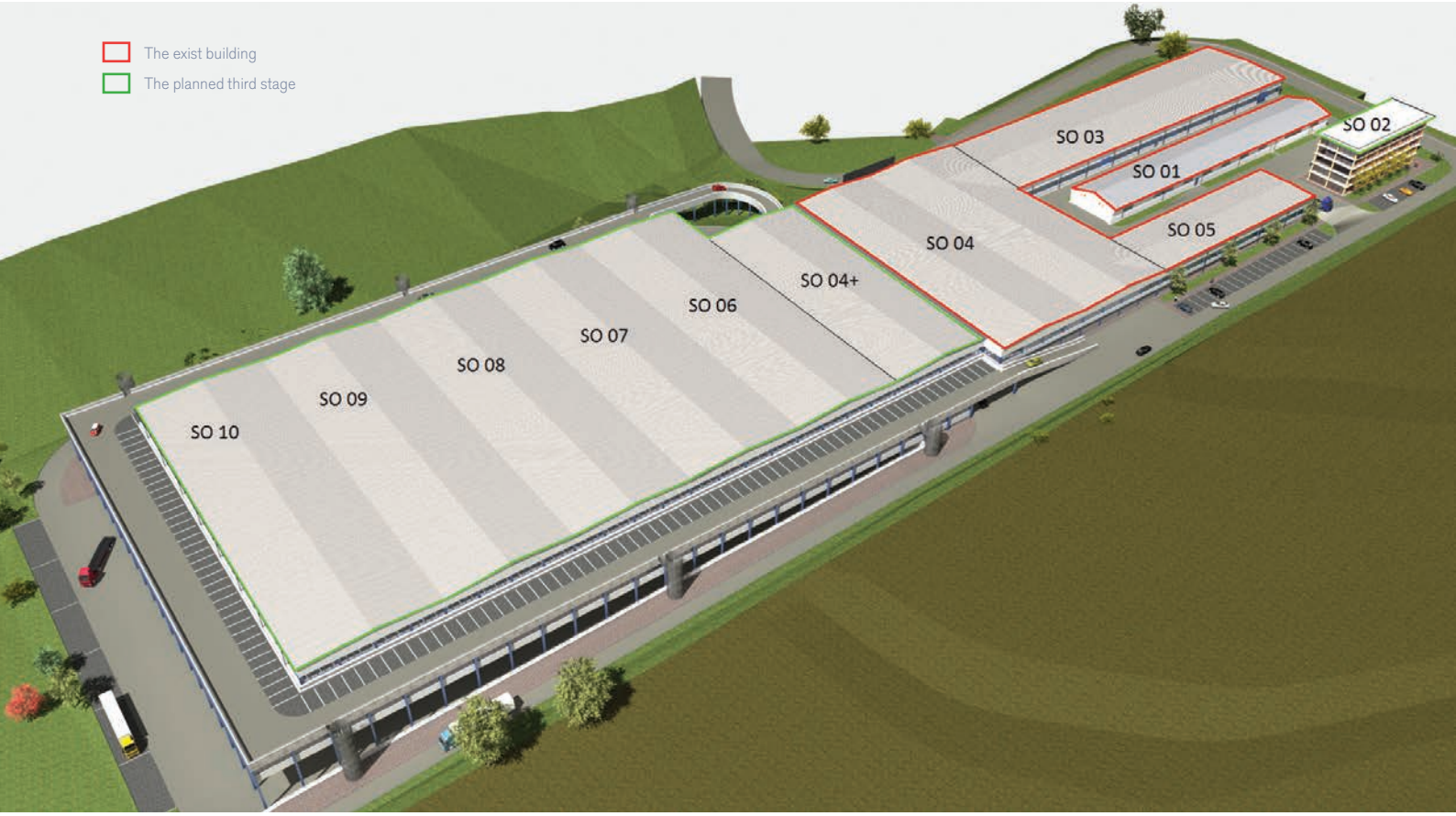
South Korea







FUTURE EXPANSIONS PLANS



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

For more technical information and prices, please contact our Sales Department:
Phone: +420 777 960 560
+420 777 258 481
Email: Info@SmartHeating.cz

Partner:

SMART **HEATING** TECHNOLOGY

Purity to Nature
Savings to Clients
Comfort to Users

South Korea



AUTOMATIC BIOMASS BOILERS

SMART 150–500–1500 kW

▪ Fully automatic, ecologic boilers with excellent features ▪ Technical solution flexibility ▪ Multiple fuel possibility ▪ Economical and ecological operation ▪ 9 boilers in range ▪ Efficiency 96 % ▪ Output modulation 30–100 % ▪ Lambda sensor ▪ Ceramic Burner Option ▪ Vibrating Burner Plate Option ▪ Low Maintenance & Service requirements ▪ Heating circuits regulation ▪ Cascade installation solutions ▪ Mobile phone control ▪ Internet control ▪ Mobile container solutions ▪ Special boiler accessories

AUTOMATIC BIOMASS BOILERS

SMART 150–500–1500 kW

5 YEAR WARRANTY*

for a complete Technology Unit

*Complete 5 year warranty conditions on request







New Boiler Design ➔

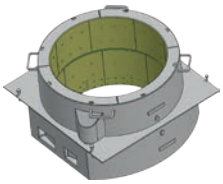




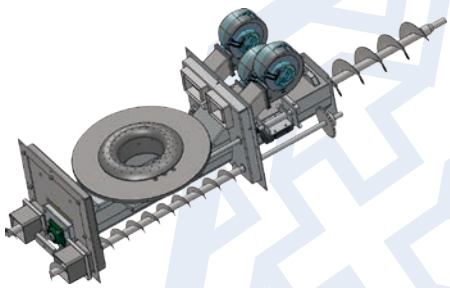
* Subject to a Fuel Composition, and Testing!

New Design Features ➔

Ceramic Burner



Vibrating Burner plate



SMART Boilers Application Options ➔

- Apartment Buildings
- Multifunctional Buildings
- Shopping Centres
- Production Plants & Industrial Premises & Storage Premises
- Agriculture & Aquaculture & Horticulture Farms
- Hotels/Motels/Wellness Centres/Pools/
- Sport Arenas
- Municipality Buildings
- Schools, Hospitals, Police & Army Complexes
- City Districts

In association with:

SIEMENS

CE

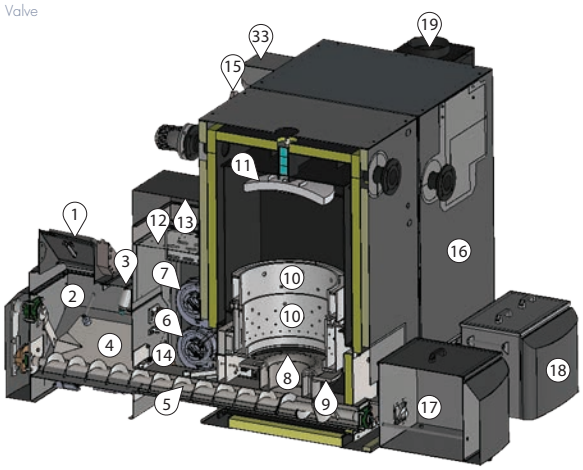
TÜV SÜD

ČSN-EN 303.5/2013

ISO 9001:2009

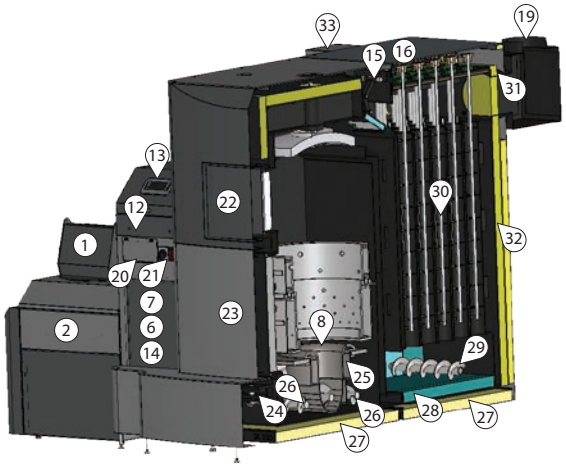
SMART 300–500 kW – Inside View - Front

1. Channel And Operational Bin Separation Valve
2. Operational Fuel Bin
3. Fuel Level Sensor
4. Moving Floor Mechanism
5. Feeding Screw
6. Primary Fan
7. Secondary Fans
8. Primary Burner Ring
9. Grating/Vibrating Wheel
10. Upper/Lower Burner Rings
11. Refractory Ceramics
12. Control Unit Siemens
13. Control Unit Cover with Display
14. Accessories
    – Ignition gun
    – Emergency Extinguishing Mechanism
    – Safety Temperature Sensors
15. Exchanger Valve Servo-Drive
16. Heat Exchanger With Turbulators
17. Combustion Chamber Ash Bin
18. Exchanger Ash Bin – Option
19. Chimney Extension Box





SMART 300–500 kW – Inside View - Side



20. Fuses
21. Main Switch
22. Small Service Doors
23. Big Service Doors
24. Grating/Vibrating Mechanism
25. Primary Air Channel
26. Ash Screws
27. Bottom Insulation
28. Bottom Hi-Temp Exchanger Insulation
29. Exchanger De-ashing – Option
30. Turbulators
31. Lambda Sensor
32. Dual Boiler Insulation
33. Turbulators Drive Motor

Mobile phone control
Internet control
Mobile container solutions

UNIT CONVERTER	
1 GJ = 1000 MJ	
1 GJ = 277, 778 kWh	1 GJ = 0,278 MWh
1 GJ = 238 846 kcal	

FUEL – CALORIFIC VALUE
1 kg – Wood pellets = 16,5–18,5 MJ = 4,6–5,1 kWh
1 kg – Lignite = 10,5–17,2 MJ = 2,9–4,8 kWh
1 kg – Wood chips with moisture 10 % = 16,4 MJ = 4,6 kWh
1 kg – Wood chips with moisture 20 % = 14,3 MJ = 4,0 kWh
1 kg – Wood chips with moisture 30 % = 12,2 MJ = 3,4 kWh
1 kg – Wood chips with moisture 40 % = 10,1 MJ = 2,8 kWh
1 m^3 – Natural gas = 37,82 MJ = 10,5 kWh

SMART BOILERS OPERATING DATA											
Technical data of the boiler											
Marking		150	180	200	220	250	300	350	400	450	500
Nominal power Pn	kW	150	180	199	220	250	300	350	400	450	500
Partial load (power) Pp	kW	40	45	50	55	65	75	90	100	115	140
Boiler efficiency at Pn	%	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
Boiler class		5	5	5	5	5	5	5	5	5	5
Water											
Water volume	l	380	420	460	460	500	690	740	790	850	900
Diameter of water connection	"	3	3	3	3	3	4	4	4	4	4
Diameter of water connection	DN	80	80	80	80	80	100	100	100	100	100
Hydraulic-pressure drop of the boiler at the temperature fall 20°	mbar	65	73	80	80	87	95	102	110	122	130
Boiler temperature	°C	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*
Minimal temperature of returnable water	°C	55	55	55	55	55	55	55	55	55	55
Maximal operational pressure	bar	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Test pressure	bar	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Temperature of furnace	°C	900-1100									
Pressure of furmace	mbar	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04
Required draught of the chimney	mbar	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Requirement for the forced draught		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Combustion temperature at Pn	°C	96,6	97,2	104,9	98	96,6	99,6	99,3	98,9	98,2	97,2
Combustion temperature at Pp	°C	63,1	63,1	72,4	63,1	63,1	63,1	62,9	62,7	62,4	62,2
Diameter of flue gas duct	mm	220	220	220	220	220	300	300	300	300	300
Diameter of chimney	mm	250	250	250	250	250	350	350	350	350	350
Fuel clasification according to norm EN 14961											
Wood pellets - C1	Tested fuel	D6, M10, A1,5, DU90,0									
Wood chips - B1		P45, M30, A3.0									

*Boilers can be operated at 90°C only when special conditions are met

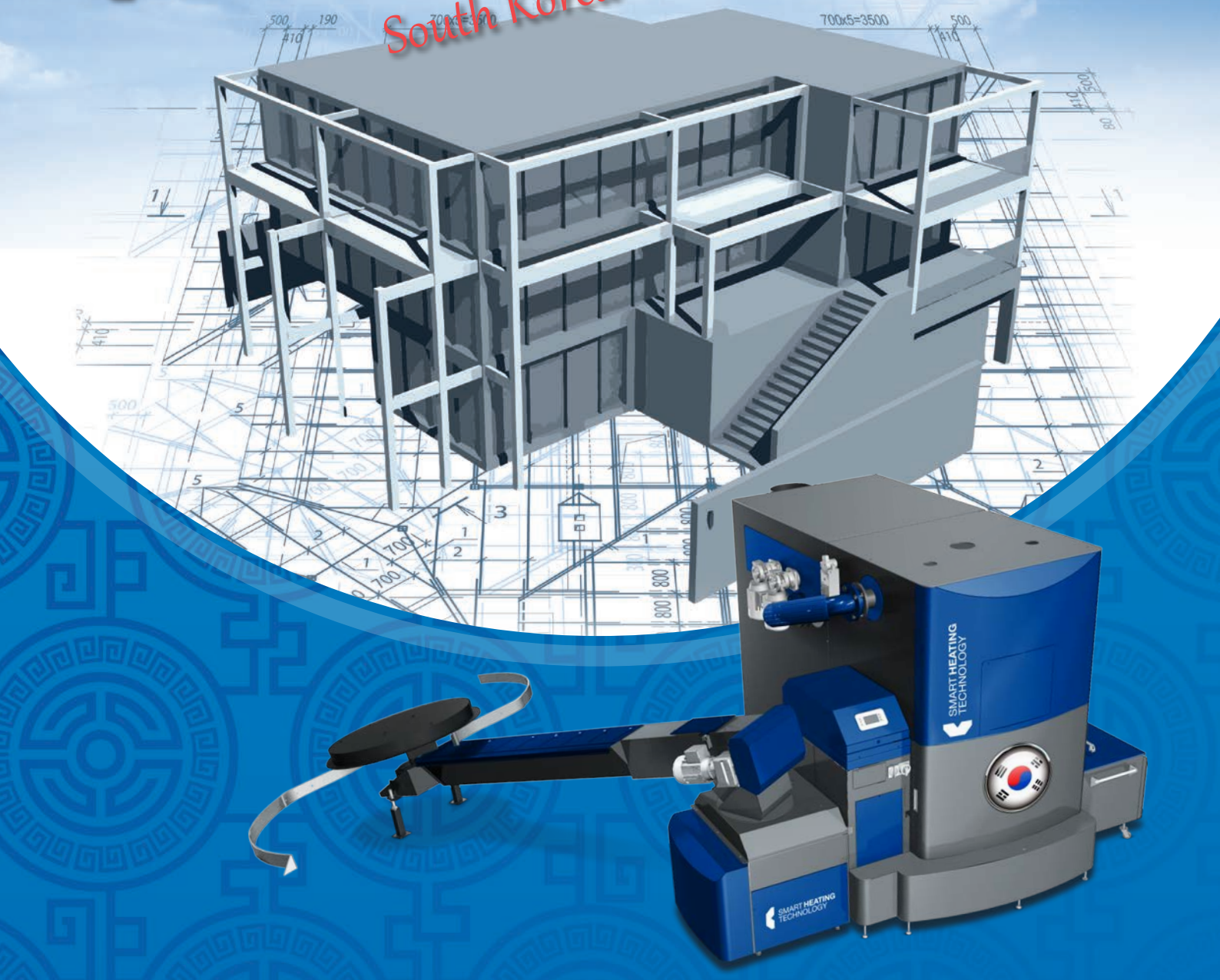




SMART **HEATING** TECHNOLOGY

Purity to Nature
Savings to Clients
Comfort to Users

South Korea



AUTOMATIC BIOMASS BOILERS

SMART 150–500 kW

COMPLETE TECHNICAL SPECIFICATION

▪ Dimensions and weights of technologies 150–250 kW ▪ Dimensions and weights of technologies 300–500 kW ▪ Service zones of technologies 150–500 kW ▪ Technical specifications 150–500 kW ▪ Certified operating values 150–500 kW

AUTOMATIC BIOMASS BOILERS

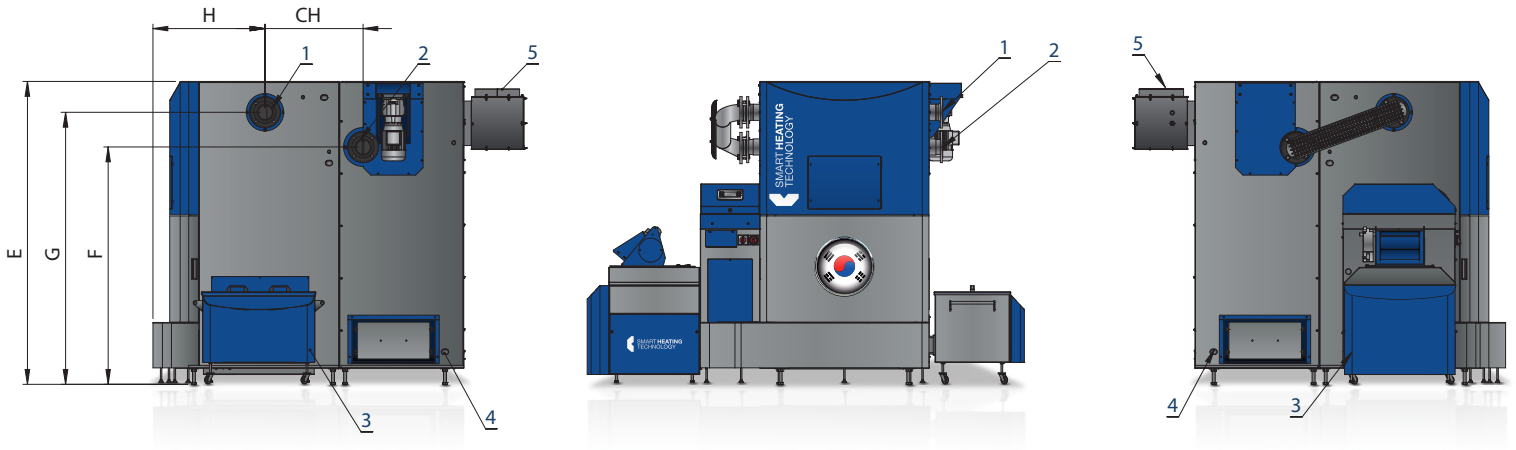
SMART 150–250 kW

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South Korea

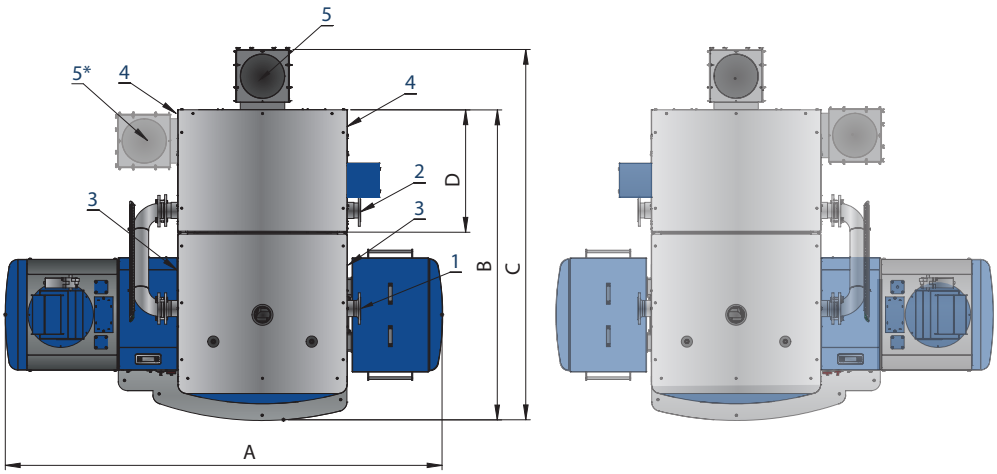
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▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users

DIMENSIONS AND WEIGHTS OF TECHNOLOGIES 150–250 kW



1. Water outlet DN80/PN6
2. Water inlet DN80/PN6
3. In/out water valve 3/4" of burning chamber
4. In/out water valve 3/4" of heat exchanger
5. Chimney outlet avg. 220 mm
* Option for limited spaces



Left sided

Right sided

	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

WEIGHTS		
Burning chamber 150 – 250 kW	1 210 kg	Total weight
Exchanger 150	1 050 kg	2 260 kg
Exchanger 180	1 150 kg	2 360 kg
Exchanger 200	1 200 kg	2 410 kg
Exchanger 250	1 300 kg	2 510 kg

FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!



AUTOMATIC BIOMASS BOILERS

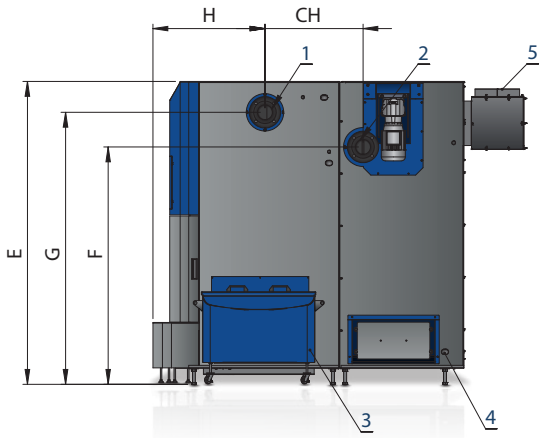
SMART 300–500 kW

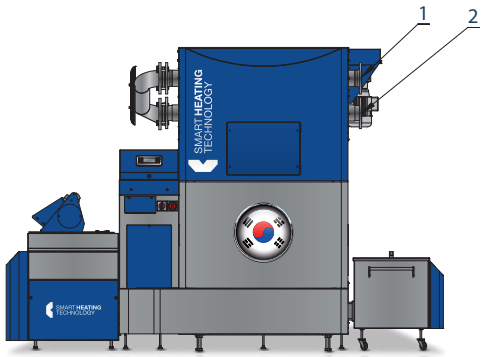
DIMENSIONS AND WEIGHTS OF TECHNOLOGIES 300–500 kW

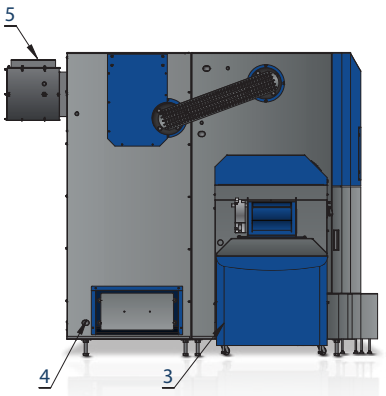
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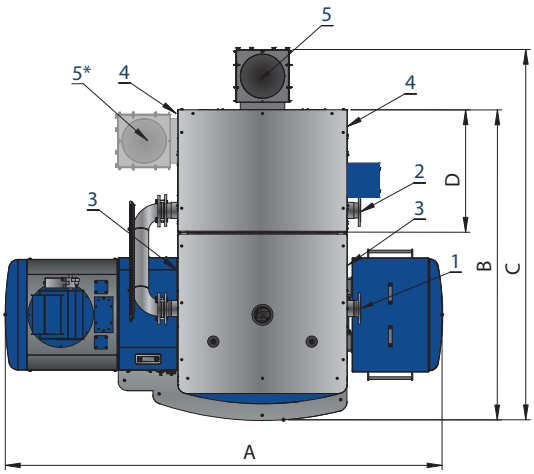
▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users



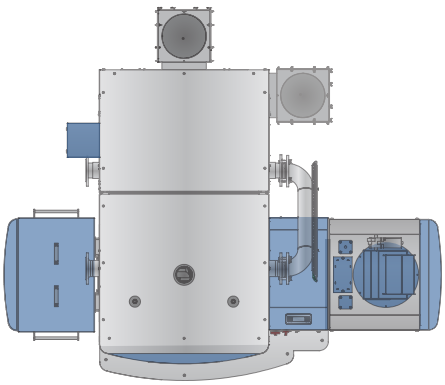




1. Water outlet DN100/PN6
2. Water inlet DN100/PN6
3. In/out water valve 3/4" of burning chamber
4. In/out water valve 3/4" of heat exchanger
5. Chimney outlet avg. 300 mm
* Option for limited spaces



Left sided



Right sided

	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

WEIGHTS		
Burning chamber 300 – 500 kW	1 550 kg	Total weight
Exchanger 300	1 500 kg	3 050 kg
Exchanger 350	1 600 kg	3 150 kg
Exchanger 400	1 700 kg	3 250 kg
Exchanger 450	1 800 kg	3 350 kg
Exchanger 500	1 950 kg	3 500 kg

FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!



AUTOMATIC BIOMASS BOILERS

SMART 150–500 kW

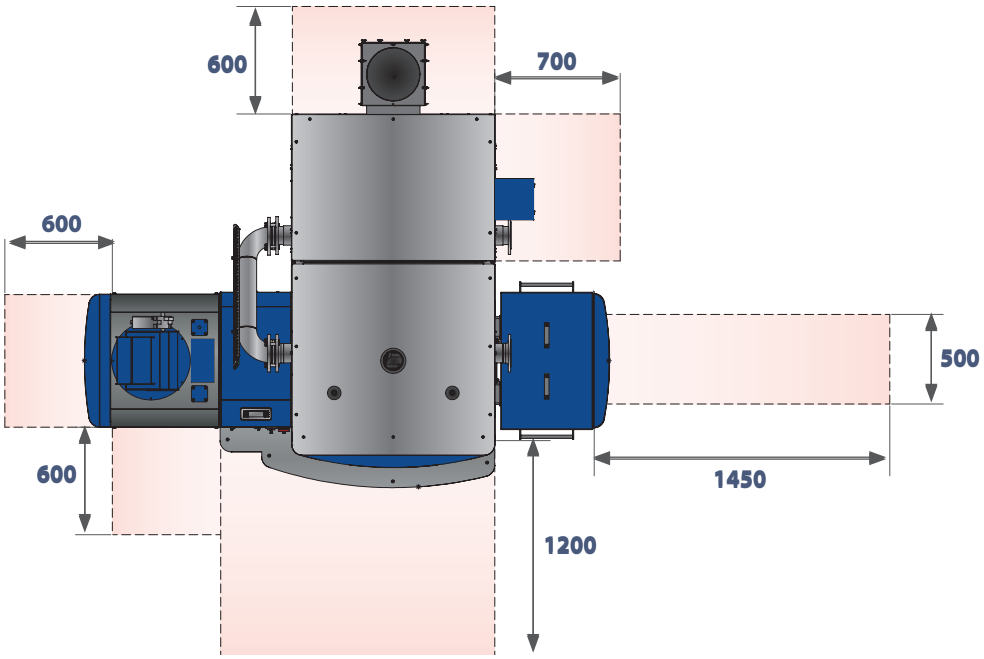
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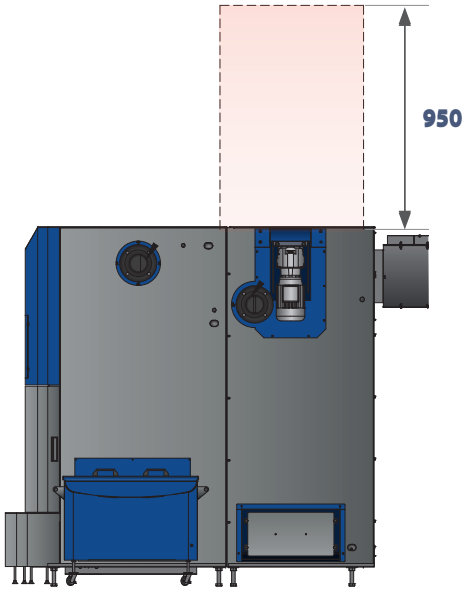
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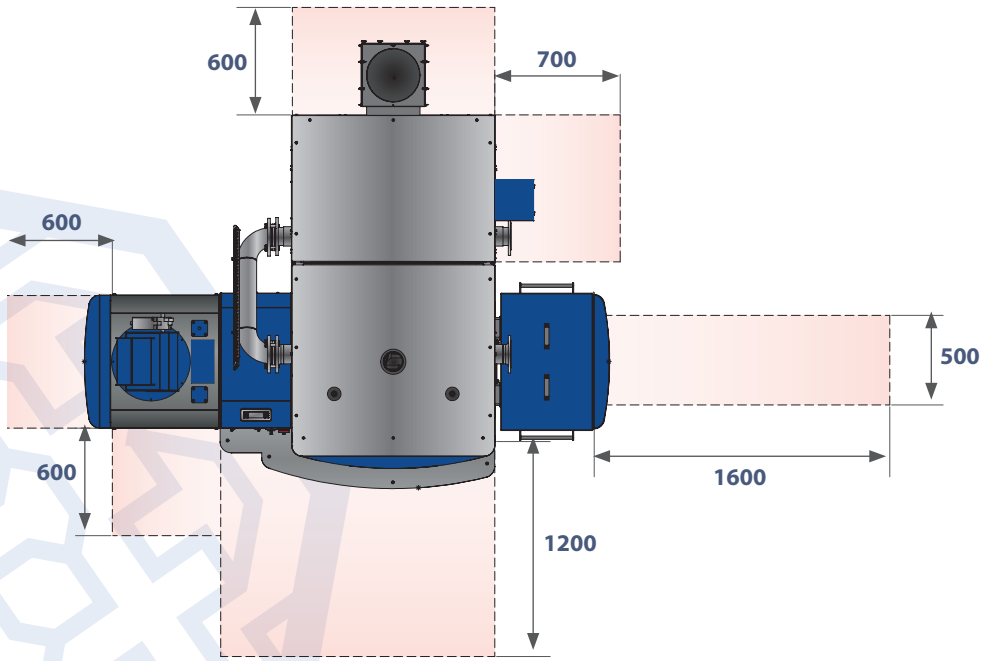
SERVICE ZONES OF TECHNOLOGIES 150–500 kW

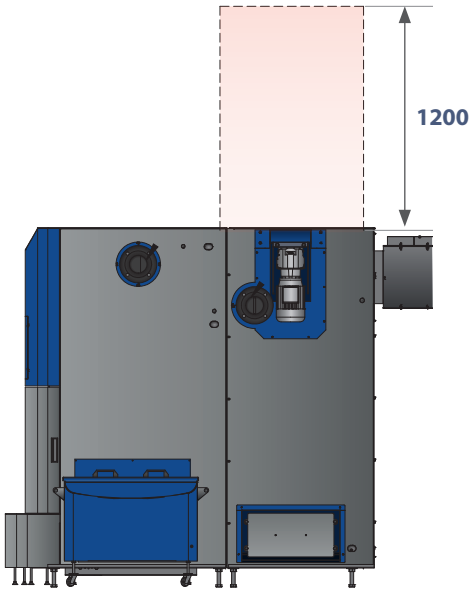
SMART 150–250 kW





SMART 300–500 kW





FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!



AUTOMATIC BIOMASS BOILERS

SMART 150–500 kW

SMART HEATING TECHNOLOGY South Korea

TECHNICAL SPECIFICATIONS 150–500 kW

ČSN-EN 303.5/2013

ISO 9001:2009

▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users

SMART BOILERS OPERATING DATA											
Technical data of the boiler											
Marking		150	180	200	220	250	300	350	400	450	500
Nominal power Pn	kW	150	180	199	220	250	300	350	400	450	500
Partial load (power) Pp	kW	40	45	50	55	65	75	90	100	115	140
Boiler efficiency at Pn	%	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
Boiler class		5	5	5	5	5	5	5	5	5	5
Water											
Water volume	l	380	420	460	460	500	690	740	790	850	900
Diameter of water connection	"	3	3	3	3	3	4	4	4	4	4
Diameter of water connection	DN	80	80	80	80	80	100	100	100	100	100
Hydraulic-pressure drop of the boiler at the temperature fall 20°	mbar	65	73	80	80	87	95	102	110	122	130
Boiler temperature	°C	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*	60-90*
Minimal temperature of returnable water	°C	55	55	55	55	55	55	55	55	55	55
Maximal operational pressure	bar	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Test pressure	bar	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Temperature of furnace	°C	900-1100									
Pressure of furmace	mbar	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04	-0,04
Required draught of the chimney	mbar	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Requirement for the forced draught		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Combustion temperature at Pn	°C	96,6	97,2	104,9	98	96,6	99,6	99,3	98,9	98,2	97,2
Combustion temperature at Pp	°C	63,1	63,1	72,4	63,1	63,1	63,1	62,9	62,7	62,4	62,2
Diameter of flue gas duct	mm	220	220	220	220	220	300	300	300	300	300
Diameter of chimney	mm	250	250	250	250	250	350	350	350	350	350
Fuel clasification according to norm EN 14961											
Wood pellets - C1	Tested fuel	D6, M10, A1,5, DU90,0									
Wood chips - B1		P45, M30, A3.0									
Electrical installation											
Electrical connection		3+N+PE 50Hz 230/400V TN-C-S									
Conveyor engine	W	550	550	550	550	550	550	550	550	550	550
Feeding auger engine	W	550	550	550	550	550	550	550	550	550	550
Exchanger cleaning engine (s)	W	550	550	550	550	550	2 x 550	2 x 550	2 x 550	2 x 550	2 x 550
Ash-removing engine	W	550	550	550	550	550	550	550	550	550	550
Fan of primary air	W	66	66	66	66	66	66	66	66	66	66
Fan of secondary air 1	W	66	66	66	66	66	170	170	170	170	170
Fan of secondary air 2	W	66	66	66	66	66	170	170	170	170	170
Chimney exhaust fan	W	300	300	300	300	300	1100	1100	1100	1100	1100
Electrical ignition	W	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Separation flap valve	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

*Boilers can be operated at 90°C only when special conditions are met

FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!



AUTOMATIC BIOMASS BOILERS

SMART 150–200 kW

SMART HEATING TECHNOLOGY

South Korea

ČSN-EN 303.5/2013

ISO 9001:2009

▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users

CERTIFIED OPERATING VALUES 150–200 kW

AUTOMATIC BIOMASS BOILERS SMART 150–200 kW		SMART 150				SMART 180				SMART 200			
		Wood pellets		Wood chips		Wood pellets		Wood chips		Wood pellets		Wood chips	
		Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum
Measured values													
Rated heat capacity	kW	150	150	150	150	180	180	180	180	199	199	199	199
Combustion product temperature	°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
Fuel consumption	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
Input water temperature	°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
Outlet water temperature	°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
Cooling water temperature	°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
Cooling water flow rate	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
Draught behind boiler	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
Ambient temperature	°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
Relative air humidity	%	45,3	44,7	38,6	37,2	45,0	44,5	40,0	39,0	42,3	41,1	41,0	40,0
Barometric pressure	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
Flue gas analysis													
Oxygen 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
Carbon dioxide 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
Carbon monoxide CO	ppm	46	175	100	146	49	171	93	153	58	181	58	181
Higher hydrocarbons OGC	ppm	4	2	3	5	4	3	3	5	7	4	7	4
Nitrogen dioxides Nox	ppm	81	47	83	55	81	49	84	54	65	38	65	38
Dust	mg/m^3	28	17	52	41	29	44	47	41	29	18	51	44
02 = 10%													
Carbon monoxide CO	mg/m^3	49	289	106	209	51	275	97	220	62	301	112	244
Higher hydrocarbons OGC	mg/m^3	2	1	1	3	2	2	1	3	10	8	2	4
Nitrogen dioxides Nox	mg/m^3	143	126	144	130	140	127	144	127	113	102	151	120
Dust	mg/m^3	24	23	44	47	25	25	39	47	25	25	44	51
Auxiliary combustion values (solid fuels)													
Mass flow rate gases	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
Stoichiometric oxygen value	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
Stoichiometric air value	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
Stoichiometric volume of dry combustion products	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
Stoichiometric air multiple		1,61	2,48	1,61	2,16	1,59	2,41	1,59	2,19	1,61	2,51	1,60	2,50
Volume of dry combustion products, actual	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
Volume of H_2O in the combustion air	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
Volume of H_2O in the combustion produts	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
Maximum volume CO_2	%	19,01	19,01	19,37	19,37	19,01	19,01	19,40	19,40	19,60	19,66	19,22	19,22
Calculated values - heat overview													
Loss of sensible heat of combustion products (chimney)	%	6,4	4,7	4,8	3,5	6,0	4,5	4,8	3,5	4,5	4,5	5,3	4,5
Loss of gas underburning	%	0,0	0,2	0,1	0,1	0,0	0,2	0,1	3,5	0,0	0,2	0,0	0,2
Loss of mechanical underburning	%	0,1	0,1	0,3	0,3	0,1	0,1	0,3	0,1	0,1	0,2	0,0	0,1
Loss of heat transfer into the environment	%	0,8	1,1	0,8	2,1	0,8	1,2	0,8	0,4	0,6	0,9	0,6	0,7
Total loss	%	7,3	6,1	6,0	6,0	6,9	6,0	5,9	5,9	5,2	5,8	6,0	5,4
Efficiency - indirect method	%	92,7	93,9	94,0	94,0	93,1	94,0	94,1	94,1	94,8	94,2	94,0	94,6
Heat input	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
Heat capacity	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
Uncertainty of determining heat capacity	%+/-	6,7	1,8	6,4	1,6	7,8	2,0	7,7	1,9	8,1	2,4	8,7	2,5
Efficiency - direct method	**%**	**95,3**	**95,6**	**95,6**	**95,1**	**95,0**	**95,0**	**95,5**	**95,2**	**95,3**	**95,1**	**95,1**	**95,5**
Capacity / rated output	%	106,1	28,7	101,3	25,6	103,4	27,1	101,5	25,6	97,3	28,4	103,6	29,8

▪ Measured ▪ Interpolace is in complience with EN303.5 coll. 5.3.1

FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!



AUTOMATIC BIOMASS BOILERS

SMART 250–350 kW

SMART HEATING TECHNOLOGY

South Korea

ČSN-EN 303.5/2013

ISO 9001:2009

▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users

CERTIFIED OPERATING VALUES 250–350 kW

AUTOMATIC BIOMASS BOILERS SMART 250–350 kW		SMART 250				SMART 300				SMART 350			
		Wood pellets		Wood chips		Wood pellets		Wood chips		Wood pellets		Wood chips	
		Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum
Measured values													
Rated heat capacity	kW	250	250	250	250	300	300	300	300	350	350	350	350
Combustion product temperature	°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
Fuel consumption	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
Input water temperature	°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
Outlet water temperature	°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
Cooling water temperature	°C	9,6	11,0	9,6	11,0	9,6	11	9,6	11,0	9,5	10,7	9,6	11,0
Cooling water flow rate	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
Draught behind boiler	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
Ambient temperature	°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
Relative air humidity	%	43,7	44,0	44,1	43,9	42,9	43,7	46,9	47,2	37,0	38,0	41,0	41,0
Barometric pressure	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
Flue gas analysis													
Oxygen 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
Carbon dioxide 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
Carbon monoxide CO	ppm	55	162	75	169	59	155	63	180	82	133	101	173
Higher hydrocarbons OGC	ppm	3	5	4	6	2	6	4	7	6	5	3	6
Nitrogen dioxides Nox	ppm	80	52	86	50	80	55	87	48	74	61	93	56
Dust	mg/m^3	33	26	34	41	35	31	25	41	30	30	45	54
02 = 10%													
Carbon monoxide CO	mg/m^3	55	243	77	246	58	220	63	265	87	182	101	246
Higher hydrocarbons OGC	mg/m^3	1	3	2	4	1	4	2	4	3	3	2	4
Nitrogen dioxides Nox	mg/m^3	134	128	143	121	130	129	142	116	124	129	153	128
Dust	mg/m^3	26	31	28	48	27	35	20	48	24	32	25	48
Auxiliary combustion values (solid fuels)													
Mass flow rate gases	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
Stoichiometric oxygen value	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
Stoichiometric air value	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
Stoichiometric volume of dry combustion products	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
Stoichiometric air multiple		1,54	2,25	1,54	2,25	1,50	2,14	1,50	2,23	1,56	1,99	1,51	2,19
Volume of dry combustion products, actual	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
Volume of H_2O in the combustion air	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
Volume of H_2O in the combustion produts	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
Maximum volume CO_2	%	19,01	19,00	19,37	19,40	19,01	19,01	19,37	19,36	19,01	19,01	19,40	19,40
Calculated values - heat overview													
Loss of sensible heat of combustion products (chimney)	%	5,2	4,0	4,7	3,5	4,6	3,6	4,7	3,5	4,7	3,3	4,7	3,3
Loss of gas underburning	%	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,1
Loss of mechanical underburning	%	0,0	0,1	0,3	0,5	0,0	0,1	0,3	0,6	0,0	0,1	0,3	0,6
Loss of heat transfer into the environment	%	0,7	1,6	0,7	1,6	0,7	1,8	0,6	1,4	0,6	1,4	0,5	1,2
Total loss	%	6,0	5,8	5,7	5,7	5,4	5,6	5,5	5,5	5,3	4,9	5,4	5,1
Efficiency - indirect method	%	94,0	94,2	94,3	94,3	94,6	94,4	94,5	94,5	94,7	95,1	94,6	95,0
Heat input	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
Heat capacity	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
Uncertainty of determining heat capacity	%+/-	10,4	2,6	10,7	2,7	12,3	3,0	12,9	3,2	14,5	3,4	14,9	3,6
Efficiency - direct method	**%**	**95,0**	**95,0**	**95,3**	**95,4**	**95,1**	**95,0**	**95,2**	**95,5**	**95,3**	**95,5**	**95,4**	**95,7**
Capacity / rated output	%	99,5	24,9	102,0	25,5	97,9	23,9	102,4	25,5	98,8	23,3	101,6	24,7

▪ Measured ▪ Interpolace is in complience with EN303.5 coll. 5.3.1

FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!



AUTOMATIC BIOMASS BOILERS

SMART 400–500 kW

SMART HEATING TECHNOLOGY

South Korea

ČSN-EN 303.5/2013

ISO 9001:2009

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CERTIFIED OPERATING VALUES 400–500 kW

AUTOMATIC BIOMASS BOILERS SMART 400–500 kW		SMART 400				SMART 450				SMART 500			
		Wood pellets		Wood chips		Wood pellets		Wood chips		Wood pellets		Wood chips	
		Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum	Rated	Minimum
Measured values													
Rated heat capacity	kW	400	400	400	400	450	450	450	450	500	500	500	500
Combustion product temperature	°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
Fuel consumption	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
Input water temperature	°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
Outlet water temperature	°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
Cooling water temperature	°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
Cooling water flow rate	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
Draught behind boiler	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
Ambient temperature	°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
Relative air humidity	%	32,0	33,0	35,0	35,0	27,0	28,0	29,5	28,6	21,1	22,8	23,7	22,4
Barometric pressure	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
Flue gas analysis													
Oxygen 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
Carbon dioxide 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
Carbon monoxide CO	ppm	105	111	139	167	128	89	176	160	151	67	214	153
Higher hydrocarbons OGC	ppm	9	3	2	6	13	2	1	5	16	0	0	4
Nitrogen dioxides Nox	ppm	68	67	100	65	62	72	106	73	56	78	112	81
Dust	mg/m^3	25	29	66	67	19	28	86	79	14	27	106	92
02 = 10%													
Carbon monoxide CO	mg/m^3	116	144	140	227	144	106	178	207	173	68	216	188
Higher hydrocarbons OGC	mg/m^3	5	2	1	3	6	1	1	3	8	0	0	2
Nitrogen dioxides Nox	mg/m^3	118	130	164	139	111	130	174	151	105	130	185	162
Dust	mg/m^3	20	29	30	48	17	25	34	48	13	22	39	48
Auxiliary combustion values (solid fuels)													
Mass flow rate gases	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
Stoichiometric oxygen value	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
Stoichiometric air value	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
Stoichiometric volume of dry combustion products	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
Stoichiometric air multiple		1,62	1,85	1,52	2,08	1,67	1,70	1,52	1,96	1,73	1,55	1,53	1,85
Volume of dry combustion products, actual	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
Volume of H_2O in the combustion air	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
Volume of H_2O in the combustion produts	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
Maximum volume CO_2	%	19,01	19,01	19,37	19,36	19,00	19,01	19,37	19,36	19,01	19,01	19,37	19,36
Calculated values - heat overview													
Loss of sensible heat of combustion products (chimney)	%	4,8	3,0	4,7	3,2	4,8	2,6	4,6	3,0	4,9	2,3	4,6	2,8
Loss of gas underburning	%	0,1	0,1	0,1	0,1	0,1	0,0	0,1	0,1	0,1	0,0	0,1	0,1
Loss of mechanical underburning	%	0,0	0,1	0,4	0,6	0,0	0,1	0,4	0,5	0,0	0,1	0,4	0,5
Loss of heat transfer into the environment	%	0,5	1,1	0,5	0,9	0,3	0,7	0,3	0,7	0,2	0,3	0,2	0,4
Total loss	%	5,3	4,2	5,4	4,6	5,2	3,4	5,3	4,2	5,2	2,7	5,2	3,7
Efficiency - indirect method	%	94,8	95,9	94,7	95,4	94,8	96,6	94,7	95,9	94,8	97,3	94,8	96,3
Heat input	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
Heat capacity	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
Uncertainty of determining heat capacity	%+/-	16,7	3,8	16,9	4,0	18,9	4,2	18,9	4,3	21,1	4,6	20,9	4,7
Efficiency - direct method	**%**	**95,4**	**95,9**	**95,6**	**95,8**	**95,5**	**96,2**	**95,8**	**96,0**	**95,6**	**96,4**	**96,0**	**96,1**
Capacity / rated output	%	99,5	22,8	100,9	23,9	100,0	22,4	100,1	23,1	100,5	22,0	99,3	22,3

▪ Measured ▪ Interpolace is in complience with EN303.5 coll. 5.3.1

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SMART 60–100 kW

Fully automatic, ecologic boilers with excellent features ▪ Technical solution flexibility ▪ Multiple fuel possibility ▪ Economical and ecological operation ▪ 3 boilers in range ▪ Efficiency 90 % ▪ Output modulation 30–100 % ▪ Lambda sensor ▪ Stainless Steel Burner with Cleaning Mechanism ▪ Low Maintenance & Service requirements ▪ Heating circuits regulation ▪ Cascade installation solutions ▪ Mobile phone control ▪ Internet control ▪ Mobile container solutions ▪ Special boiler accessories

AUTOMATIC BIOMASS BOILERS

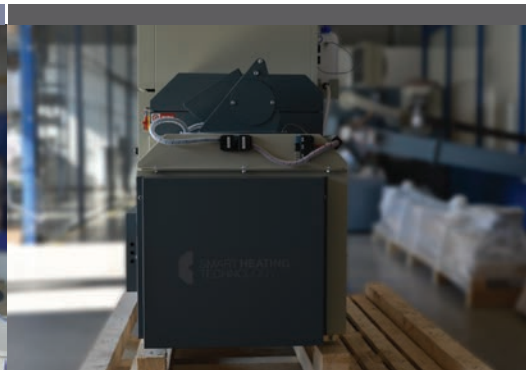
SMART 60–100 kW

5 YEAR WARRANTY*

for a complete Technology Unit

*Complete 5 year warranty conditions on request





Boiler Design Features ➔







* Subject to a Fuel Composition, and Testing!

SMART Boilers Application Options ➔

- Extensive Houses And Smaller-Scale:

- Apartment Buildings
- Multifunctional Buildings
- Production Plants & Industrial Premises & Storage Premises
- Agriculture & Aquaculture & Horticulture Farms
- Hotels/Motels/Wellness Centres/Pools
- Sport Complexes
- Municipality Buildings
- Schools, Hospitals, Police & Army Complexes

In association with:

SIEMENS

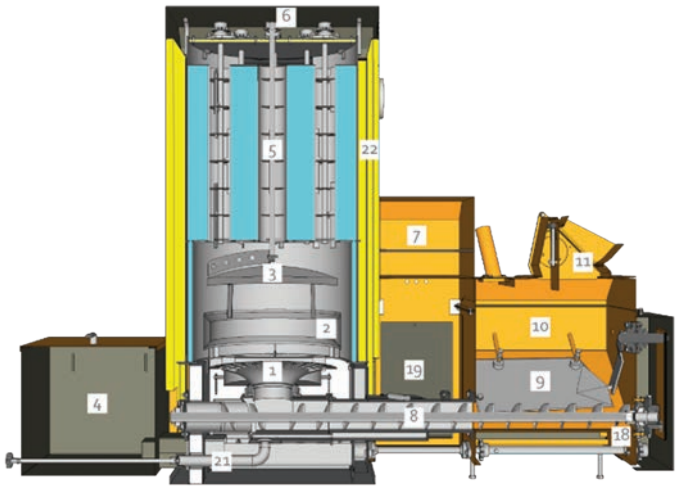
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ČSN-EN 303.5/2013

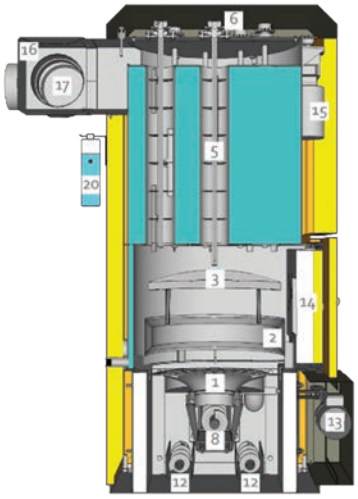
ISO 9001:2009

SMART 60–100 kW – Front & Side View





Mobile phone control
Internet control
Mobile container solutions



Description:

1. Primary burner with moving grate
2. Secondary crown of additional combustion
3. Deflector
4. Ash Bin
5. Heat exchanger with turbulators
6. Turbulator drive
7. Control Unit Siemens with Display
8. Feed screw
9. Disrupting mechanism
10. Operational Fuel Bin
11. Flap separating intermediate container and fuel conveyor
12. Ash screws
13. Grating motor
14. Service boiler door
15. Turbulator drive motor
16. Chimney extension
17. Exhaust fan
18. Feed and ash screw motor
19. Accessories
    - Primary and secondary fan
    - Igniting fan
    - Emergency extinguishing device
20. Extinguishing canister with a level sensor
21. Air duct cleaning
22. Dual boiler insulation

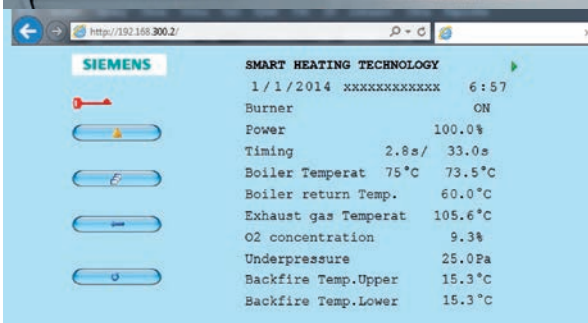
UNIT CONVERTER	
1 GJ = 1000 MJ	
1 GJ = 277, 778 kWh	1 GJ = 0,278 MWh
1 GJ = 238 846 kcal	

1 kg – Wood pellets = 16,5–18,5 MJ = 4,6–5,1 kWh
1 kg – Lignite = 10,5–17,2 MJ = 2,9–4,8 kWh
1 kg – Wood chips with moisture 10 % = 16,4 MJ = 4,6 kWh
1 kg – Wood chips with moisture 20 % = 14,3 MJ = 4,0 kWh
1 kg – Wood chips with moisture 30 % = 12,2 MJ = 3,4 kWh
1 kg – Wood chips with moisture 40 % = 10,1 MJ = 2,8 kWh
1 m^3 – Natural gas = 37,82 MJ = 10,5 kWh

Designation		60	80	100
Nominal power Pn	kW	60	80	100
Partial load Pmin	kW	17	23	29
Boiler efficiency at Pn	%	90	89,4	88,2
Boiler efficiency at Pmin	%	89,1	88,5	87,7
Boiler class		5	5	5
Noise level	dB	< 65	< 65	< 65
Weight	kg	783	997	1042
Water				
Volume of water	l	129	105	105
Water connection diameter	"	2	2	2
Water connection diameter	DN	50	50	50
Hydraulic boiler loss attemperature gradient of 10°	mbar	17	29,9	47
Hydraulic boiler loss attemperature gradient of 20°	mbar	4,3	7,5	11,9
Boiler temperature	°C	65-90	65-90	65-90
Min. temperature of return water	°C	55	55	55
Max. operating pressure	bar	3,5	3,5	3,5
Test pressure	bar	6	6	6
Hearth temperature	°C			
Hearth pressure	mbar	-0,01	-0,01	-0,01
Required chimney draught	mbar	0,2	0,2	0,2
Need for artificial draught		yes	yes	yes
Flue gas temperature at Pn	°C	185	195	205
Mass flow rate of flue gas at Pn	°C	90	95	105
Flue gas temperature at Pmin	kg/h	180	240	300
Mass flow rate of flue gas at Pmin	kg/h	60	81	99
Volume of flue gas at Pn	m^3/h	141	188	235
Volume of flue gas at Pmin	m^3/h	47	63,5	77,6
Smoke pipe diameter	mm	200	200	200
Chimney diameter	mm	200	200	200
Type of chimney		Moisture – resistant		
Fuel				
Maximum size	cm	3	3	3
Maximum moisture content	%	30	30	30
Electric equipment				
Connection				
Total	W	3131	3131	3131
Ingress Protection Rating (IP)		41	41	41







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1. Evaluating current situation/state
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3. Calculating expenses and returnability

We analyze properly

4. Producing precisely
5. Delivering and installing

We manufacture made-to-measure

6. Monitoring installation 24/7
7. Servicing and maintaining periodically
8. Supplying fuel

We look after our clients

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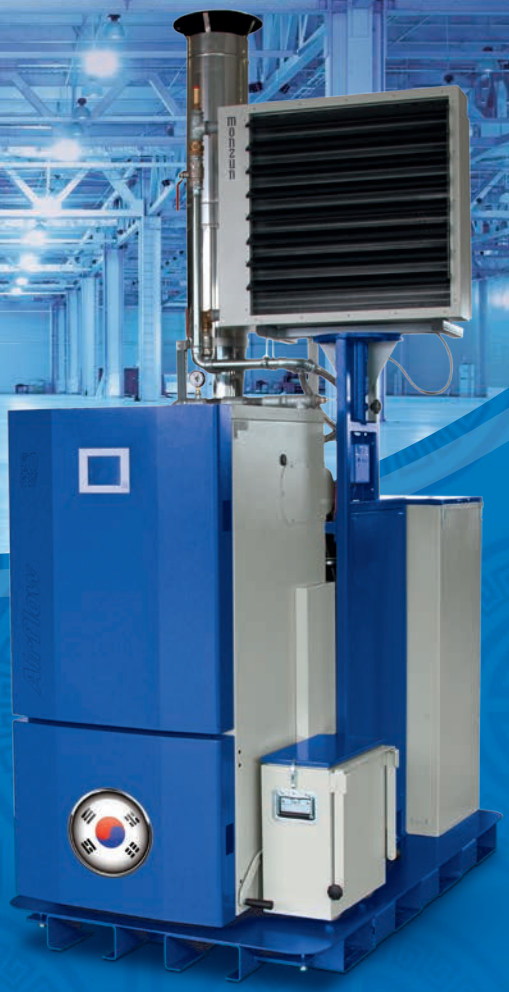
For more technical information and prices,
please contact our Sales Department:
Phone: +420 777 960 560
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Info@SmartHeating.cz

Partner:

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Smart Hot-Air Unit 30–50 kW

Wood Pellet Air Handling Biomass Boiler Unit

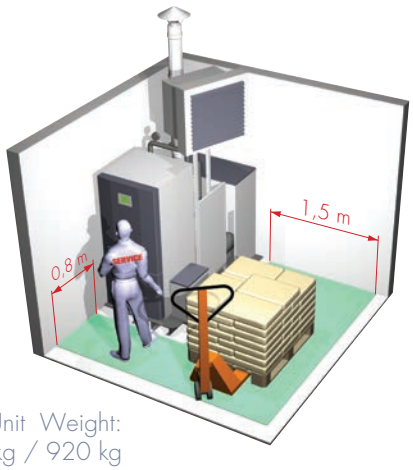
▪ Steel supporting pallet and covering structure ▪ Automatic Wood Pellet Boiler with automatic cleaning and deashing ▪ Efficiency >90 % ▪ Output Modulation 30–100 % ▪ 400 l fuel bin ▪ Electronically controlled Hot-Air fan unit with 0–270° movement ▪ Complete chimney supply ▪ Complete hydraulics supply ▪ Special operation visualisation ▪ Mobile phone control ▪ Internet control

Smart Hot-Air Unit 30–50 kW

Installation Space Requirements:

Smart Hot-Air Unit Dimensions:
1 900 x 1 130 x 2 885 mm





Smart Hot-Air Unit Weight:
815 kg / 920 kg

Thermal and technical parametres	Unit	Smart Hot-Air Unit 30 kW	Smart Hot-Air Unit 50 kW
Rated output	kW	29	49,5
Output range	kW	8,6 - 29	14,6 - 49,5
Fuel consumption	kg x hrs-1	1,9 - 6,6	3,44 - 11,63
Efficiency (rated output)	%	90,9	90,4
Flue Gas temperature rated output	°C	94 - 148	110 - 153
Class of the boiler		5	5
Burning time min/rated output (based on fuel storage of 250 kg)	hours	147 - 42	80 - 24
Technical parameters of products			
Weight	kg	815	920
Water content	litres	140	190
Flue duct diameter	mm	150	160
Dimension (widthxdepth) excluding ash box	mm	1130 x 1900	1130 x 1900
Maximum water pressure	bar	up to 3	up to 3
Required flue draught	mbar	0,1 - 0,2	0,1 - 0,3
Recommended operating temperature of heating water	°C	60 - 80	60 - 80
Lowest temperature of incoming water	°C	55	55
Sound power level	dB	57	57
Output power 70/50°C, 10°C	kW	32,48	53,91
Air circulation range in open space	m	22,5	17,5
Middle level of sound pressure	dB	64,5	67,2
Electrical parametres of products			
Connection voltage		230VAC ±10 %, 50Hz ± 2Hz	230VAC ±10 %, 50Hz ± 2Hz
Maximum electrical input – ignition	V	1200	1200
Electrical protection of the control unit		IP54	IP54
Electrical protection of the boiler wiring		IP20	IP20
Fuel and its parametres			
Wood pellets diameter	mm	6,0 - 8,5	6,0 - 8,5
Calorific value	MJ/kg	approximately 16 - 18	approximately 16 - 18
Water content		Up to 10 %	Up to 10 %
Ash content		Up to 1 % (0,8 - 1,0 %)	Up to 1 % (0,8 - 1,0 %)

Smart Hot-Air Unit Delivery Description:

- Compact steel supporting pallet for easy handling & positioning
- Smart 30/50 kW Wood Pellet Boiler
- 250 kg fuel store including fuel auger
- 2 000 mm 3-layers chimney set
- Hot-Air fan unit with 0–270 degree movement range
- Circulation pump
- Drain valve
- Pressure control
- Expansion tank
- Pressure release valve
- Automatic control vent
- Heat meter – Optional

Smart 30/50 kW Wood Pellet Boiler Features:

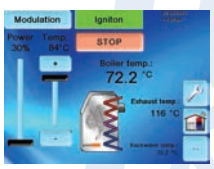
- Steel construction with heavy duty comaxite coating for long life
- Multiple fuelling options: auger, vacuum or manually fed
- Advanced Control Unit for automatic operation
- High efficiency – over 90%
- Output Modulation from 30–100% depending on actual heat demand
- Cast Iron burner construction with exchangeable burner surface
- Automatic electrical ignition
- Self-cleaning, vertical turbulator heat exchanger
- Safety thermostat with automatic cut-off
- Automatic de-ashing c/w wheelie ash bin
- Remote Monitoring via Internet or GSM
- Integral flue fan – Optional







Special Operation Visualisation:





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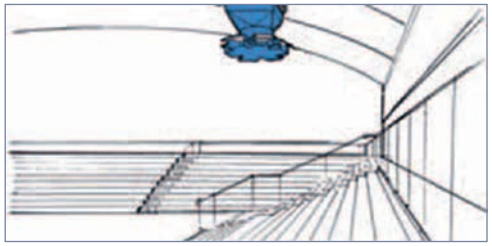


Smart Air Heaters 360°

- ABS Light Weight Body
- 15-30 Metres 360° Air Throw
- Stainless Steel Flaps for Airflow Regulation
- Double Coated Exchanger
- Capacity >10.000 m^3 per hour
- Heating/Drying without CO_2 Production
- Better Environment for Animals
- Dry Heat
- Dry Litter / Animal Waste
- Reduce Animal Feet Problems so Less Antibiotics Required
- Much lower NH_2 Level
- Better Feed Conversion Rate
- Easy to Pre-Heat the Floor
- Easy Cleaning/Easy Maintenance/Easy Service

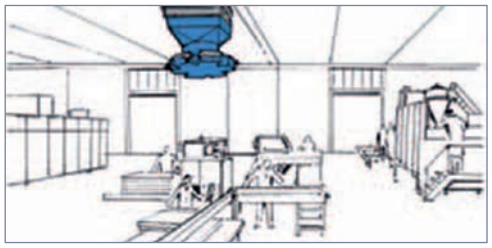
Smart Air Heaters 360°
a unique air distribution unit

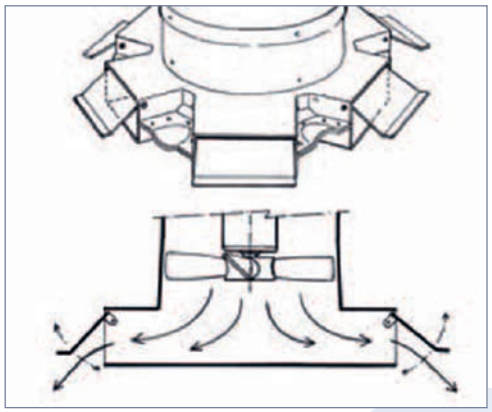












The Smart Air Heaters 360° unit consists of high efficiency heat exchanger, axial fan and a unique designed distribution device. Hot water is supplied from an external boiler and passes the heat exchanger. The fan sucks the air from inside the building through the heat exchanger and pushes the warm air equally through the 6 air outlets.

The amount of air and the directions can be adjusted by the flaps inside each air outlet. The units are hanging in the middle of the building whereby an ideal distribution is guaranteed to all corners in the building.

The air can be distributed up to 15 m, subsequently for 30 m wide houses.

Recirculation duct
Warm air reaches the sidewalls and rises to the ceiling, where it returns to the HW unit for a natural circulation of warm air.

Advantages:
- Perfect distribution of the heat
- Less energy costs
- Nonhazardous, no open flame
- Durable ABS material
- Possible to use as cooling

The unit is patented and registered.

		Smart Air Heater 25	Smart Air Heater 50	Smart Air Heater 60	Smart Air Heater 70
Air displacement		3 000 m³/h	10 400 m³/h	10 400 m³/h	10 400 m³/h
Fan		230 V/0,9 A 170 W/ 1400 RPM	400 V/1,3 A 600 W/900 RPM	400 V/1,3 A 600 W/900 RPM	400 V/1,3 A 600 W/900 RPM
Measurement		830 x 535 x 860	1115 x 1062 x 920	1115 x 1062 x 950	1115 x 1062 x 980
Water connection		G 3/4"	G 1"	G 5/4"	G 5/4"
Weight incl. water		32 kg	82 kg	86 kg	90 kg
		Performance at 90 °C – 70 °C water temperature			
Ambient temp. at:	20 °C	28 kW - 1,3 m³/h -20 kPa	75 kW - 3,3 m³/h - 37 kPa	93 kW - 4,2 m³/h - 35 kPa	111 kW - 4,9 m³/h - 38 kPa
Weight incl. water		Performance at 80 °C – 65 °C water temperature			
Ambient temp. at:	20 °C	25 kW - 1,5 m³/h - 27 kPa	66 kW - 3,9 m³/h - 50 kPa	82 kW - 4,8 m³/h - 47 kPa	97 kW - 5,7 m³/h - 51 kPa

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MOBILE BIOMASS BOILER HOUSE

SMART CABIN 150–500–1500 kW

▪ Biomass boiler technology Smart 150–500–1500 kW ▪ Oil/gas back up boiler possibility ▪ Complete wood chips & wood pellets silo solution ▪ Complete flue gas ways ▪ inside the container ▪ Complete hydraulic installation inside the container ▪ Measuring and regulation system ▪ 96 % burning efficiency ▪ Technical solution flexibility ▪ Final external design possibilities + special design features

MOBILE BIOMASS BOILER HOUSE

SMART CABIN 150–500–1500 kW

5 YEAR WARRANTY*

for a complete Technology Unit

*Complete 5 year warranty conditions on request







Specification & Design ↑









Mobile container technical solution options:

- Left / Right Container design
- Hydraulic roof for wood chip container design
- Glass / Metal doors design
- Special safety features
- External design according to special customer requirement

Dimensions and Weights:

150–250 kW: 3 x 3 x 12,6 m ~ 12 tons*

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

*In case of the requirement for the supply of an Oil/Gas back-up boiler, it is necessary to extend the container 1.2 m and increase the weight by 1.5 tons

In association with:

SIEMENS

GRUNDFOS

Hydraulics & Chimney & Silo ➔







SMART **HEATING** TECHNOLOGY

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AUTOMATIC BIOMASS BOILERS SMART 150–500–1500 kW



ČSN-EN 303.5/2013
ISO 9001:2009

Efficiency 96 %
Mobile phone control
Internet control









* Subject to a Fuel Composition, and Testing!

TECHNICAL DATA OF SMART BOILERS										
Marking		150	180	220	250	300	350	400	450	500
Nominal power Pn	kW	150	180	220	250	300	350	400	450	500
Partial load (power) Pp	kW	40	45	55	65	75	90	100	115	140
Boiler efficiency at Pn	%	95	95	95	95	95	95	95	95	95
Boiler efficiency at Pp	%	96	96	96	96	96	96	96	96	96
Boiler class		5	5	5	5	5	5	5	5	5





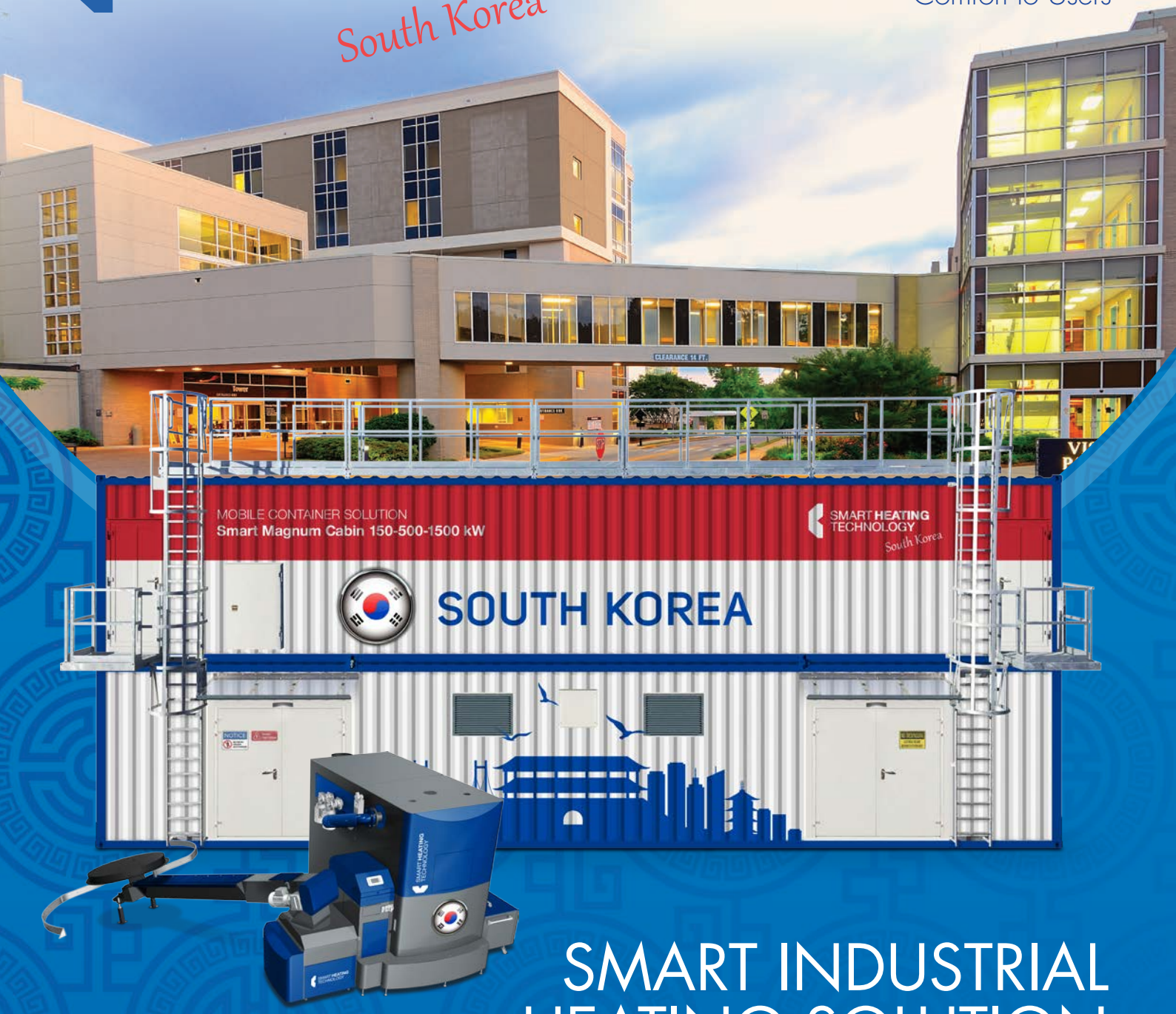






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SMART INDUSTRIAL HEATING SOLUTION

Complete Biomass Solution For Industrial Heating including Radiators, Interior Fans, Regulation and On-line Monitoring

▪ Complete Mobile Container solution supply or individual Biomass Boiler solution supply ▪ Hot water / Hot air heating option ▪ Complete Hydraulic & Electric solution for multiple buildings heating ▪ 2-10 thermostats installation into each building ▪ Complete Monitoring and Regulation for all heating circuits ▪ Installation possibility of Certified Heat Meters for energy invoicing ▪ Remote Monitoring and Control over the Internet/GSM ▪ Instant notification of working conditions alternation

MOBILE BIOMASS BOILER HOUSE
SMART CABIN 150–500–1500 kW

5 YEAR WARRANTY*

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ČSN-EN 303.5/2013
ISO 9001:2009

Efficiency 96 %
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Smart Industrial Heating Solution Application Options:

- Apartment Buildings
- Multifunctional Buildings
- Shopping Centres
- Production Plants & Industrial Premises & Storage Premises
- Hotels/Motels/Wellness Centres/Pools
- Sport Arenas
- Municipality Buildings
- Schools, Hospitals, Police & Army Complexes
- City Districts













SMART **HEATING** TECHNOLOGY

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SMART GREENHOUSE HEATING SOLUTION

Complete Biomass Solution for GreenHouse Heating including Interior Fans, Regulation and On-line Monitoring

▪ Complete Mobile Container solution supply or individual Biomass Boiler solution supply ▪ Hot water / Hot air GreenHouse heating option ▪ Complete Hydraulic & Electric solution for multiple GreenHouses heating ▪ 2–4 thermostats installation into each GreenHouse ▪ Complete Monitoring and Regulation for all heating circuits ▪ Remote Monitoring and Control over the Internet/GSM ▪ Instant notification of working conditions alternation

MOBILE BIOMASS BOILER HOUSE
SMART CABIN 150–500–1500 kW

5 YEAR WARRANTY*

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ČSN-EN 303.5/2013
ISO 9001:2009

Efficiency 96 %
Mobile phone control
Internet control





Internal Fans Design Options ↓







Smart GreenHouse Heating Solution Application Options:

- GreenHouse Heating – Hot-water/Hot-air /DHW preparation
- Poultry Farms – Hot-water/Hot-air /DHW preparation
- Cattle Farms Hot-water – Hot-water/Hot-air /DHW preparation
- Pig Farms Hot-water – Hot-water/Hot-air /DHW preparation
- Fish Farms – Hot-water/Hot-air /DHW preparation
- ZOO – Hot-water/Hot-air /DHW preparation
- Material Drying Solutions & DHW preparation









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We analyze properly

4. Producing precisely
5. Delivering and installing

We manufacture made-to-measure

6. Monitoring installation 24/7
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Pre-Manufactured Biomass Boiler House

SMART BIO-HOUSE 150–500–1500 KW

▪ Galvanized structure design with PUR panels specification according to customer's requirements ▪ Hydraulic/Manual silo opening design ▪ Biomass boiler technology Smart 150–500–1500 KW ▪ Oil/gas back up boiler possibility ▪ Complete wood chips & wood pellets silo solutions ▪ Complete flue gas ways and chimney supply ▪ Complete hydraulic installation supply ▪ Measuring and regulation system ▪ 96 % burning efficiency ▪ Technical solution flexibility ▪ Final external design possibilities + special design features

PRE-MANUFACTURED
BIOMASS BOILER HOUSE

BIO-HOUSE 150–500–1500 KW

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Boiler House Design

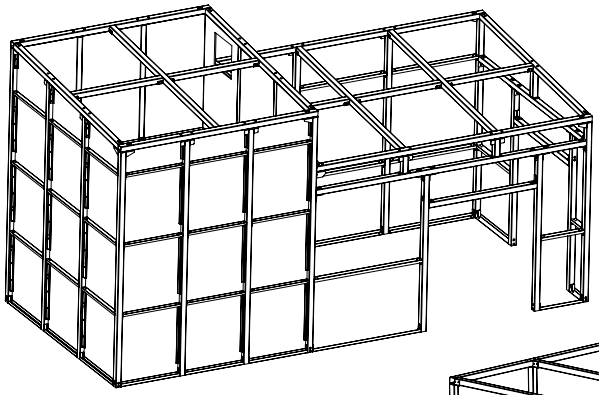


Boiler House Design with Silo

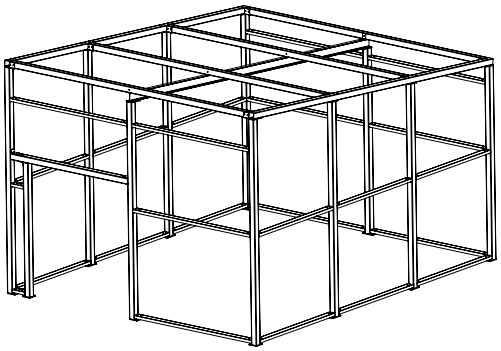


Special Boiler Houses Design

Specification & Design



Boiler House Design with Silo



Boiler House Design

Pre-Manufactured Boiler House technical solution options:

- With / Without silo solution
- Left / Right Bio-House design
- Hydraulic / Manual roof for wood chip Boiler House design
- Glass / Metal doors design
- Special safety features
- External design according to special customer requirement

Minimum – Maximum dimensions of the BIO-HOUSE:

3 x 3 m – 9 x 9 m

Standard Colours Design Options:

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

In association with:

SIEMENS

GRUNDFOS

Silo & Hydraulics & Installation







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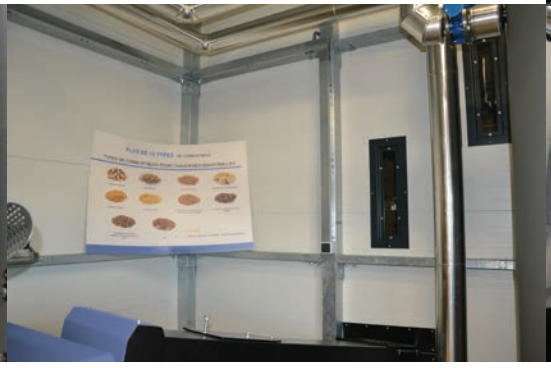




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Boiler efficiency at Pn	%	95	95	95	95	95	95	95	95	95
Boiler efficiency at Pp	%	96	96	96	96	96	96	96	96	96
Boiler class		5	5	5	5	5	5	5	5	5







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Phone: +420 777 960 560
+420 734 751 655
+420 777 258 481
Email: Sales@SmartHeating.cz
Info@SmartHeating.cz

Partner:

SMART **HEATING**
TECHNOLOGY

South Korea

Purity to Nature
Savings to Clients
Comfort to Users



SMART ACCUMULATION TANKS

500–5000 l

▪ Steel / Stainless steel material option ▪ Anticorrosive Painting treatment ▪ Variation of insulation thickness ▪ Variation of insulation color ▪ Custom dimensions and specifications option ▪ Heating element option for antifreeze protection

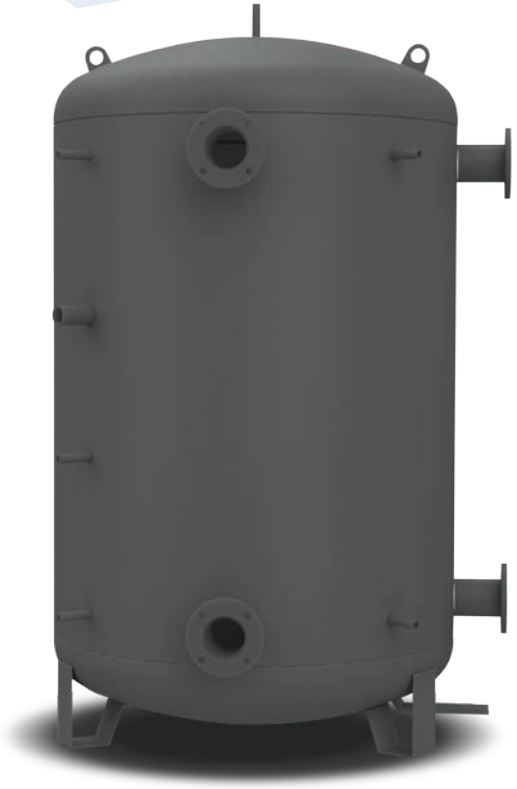
ACCUMULATION TANK

FE AKU

SMART HEATING TECHNOLOGY

South Korea

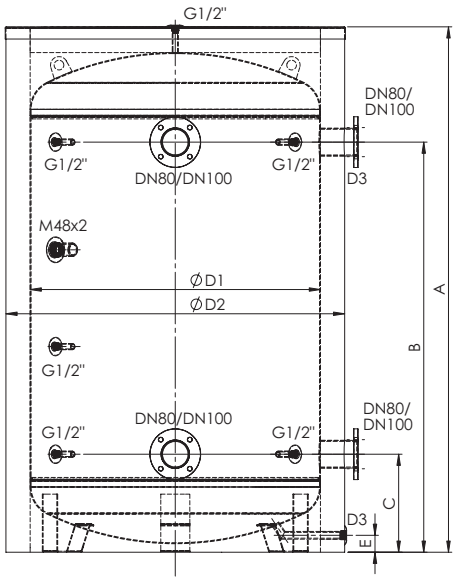
CE TÜV SÜD ISO 9001:2009



Technical Specification:

Material	Steel CSN 11 321 Outside pro-
tection finish	anticorrosive painting
Inside protection finish	without treatment
Max. operation pressure	0.6 MPa (6 bar)
Max. operation temperature	100 °C
Warranty	36 Months

Tank Schematics:



FE AKU – Accumulation tank with connecting flanges DN80/PN6

Volume (l)	A (mm)	B (mm)	C (mm)	E (mm)	øD1 (mm)	øD2 (mm)	D3	Weight (kg)	Insulation (mm)	THL-I (kWh/day)
500	1910	1565	270	40	600	700	G1/2"	98	Removable insulation made from soft PUR foam 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

Weight – Accumulation tank weight without insulation, THL-I - Thermal heat loss of insulated accumulation tank with water temperature 80 °C

FE AKU – Accumulation tank with connecting flanges DN100/PN6

Volume (l)	A (mm)	B (mm)	C (mm)	E (mm)	øD1 (mm)	øD2 (mm)	D3	Weight (kg)	Insulation (mm)	THL-I (kWh/day)
500	1910	1565	270	40	600	700	G1/2"	100	Removable insulation made from soft PUR foam 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

Weight – Accumulation tank weight without insulation, THL-I - Thermal heat loss of insulated accumulation tank with water temperature 80 °C

ACCUMULATION TANK

FE AKU ST

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South Korea

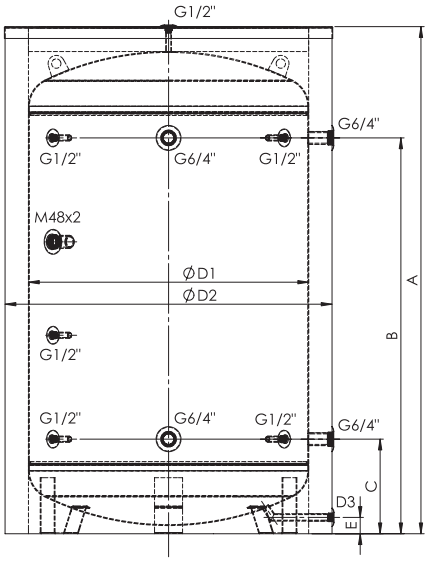
CE TÜV SÜD ISO 9001:2009



Technical Specification:

Material	Steel CSN 11 321
Outside protection finish	anticorrosive painting
Inside protection finish	without treatment
Max. operation pressure	0. 6 MPa (6 bar)
Max. operation temperature	100 °C
Warranty	36 Months

Tank Schematics:

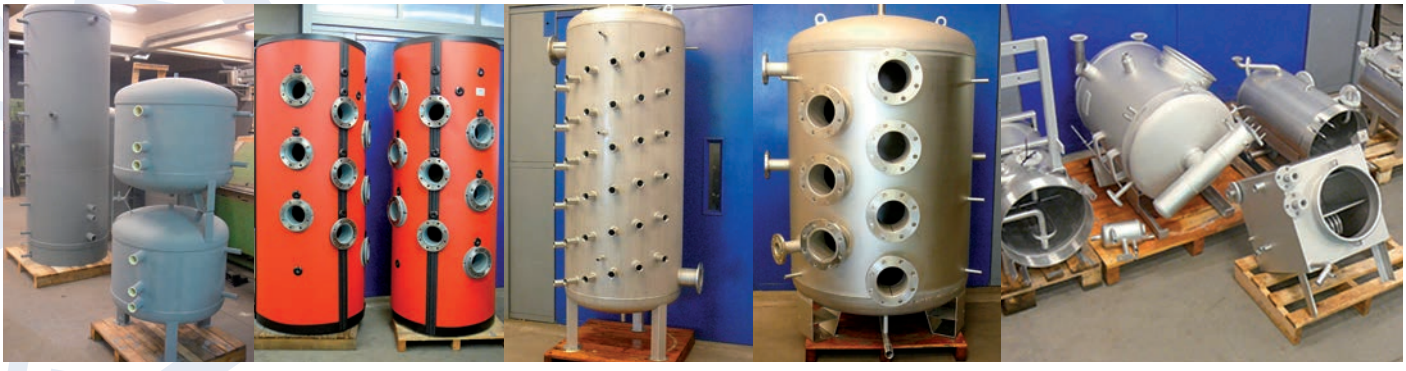


FE AKU ST – Accumulation tank with connecting threaded pipe G $^{6}/_{4}$

Volume (l)	A (mm)	B (mm)	C (mm)	E (mm)	øD1 (mm)	øD2 (mm)	D3	Weight (kg)	Insulation (mm)	THL-I (kWh/day)
500	1910	1565	270	40	600	700	G$^{1}/_{2}$"	82	Removable insulation made from soft PUR foam 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

Weight – Accumulation tank weight without insulation, THL-I - Thermal heat loss of insulated accumulation tank with water temperature 80 °C

Examples of Customized Tanks



SMART HEATING TECHNOLOGY

South Korea







HOW WE WORK WITH OUR CUSTOMERS

Smart Heating Technology s.r.o.

1. Evaluating current situation/state
2. Processing technical solutions
3. Calculating expenses and returnability

We analyze properly

4. Producing precisely
5. Delivering and installing

We manufacture made-to-measure

6. Monitoring installation 24/7
7. Servicing and maintaining periodically
8. Supplying fuel

We look after our clients

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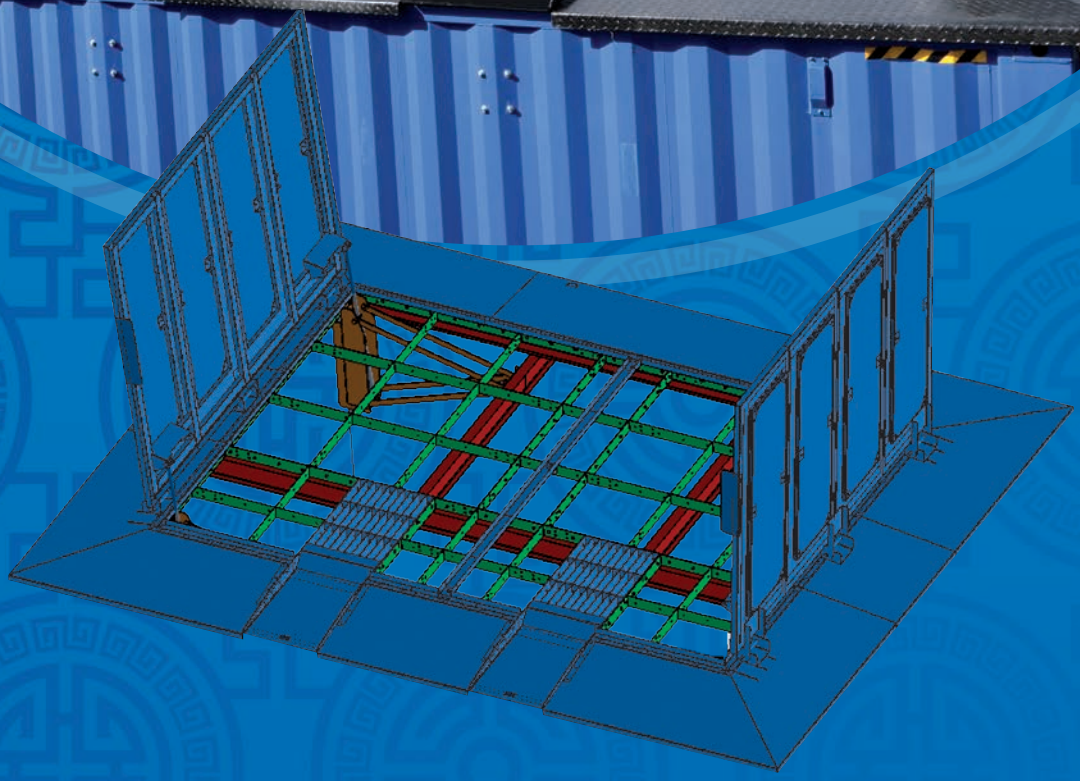
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South Korea





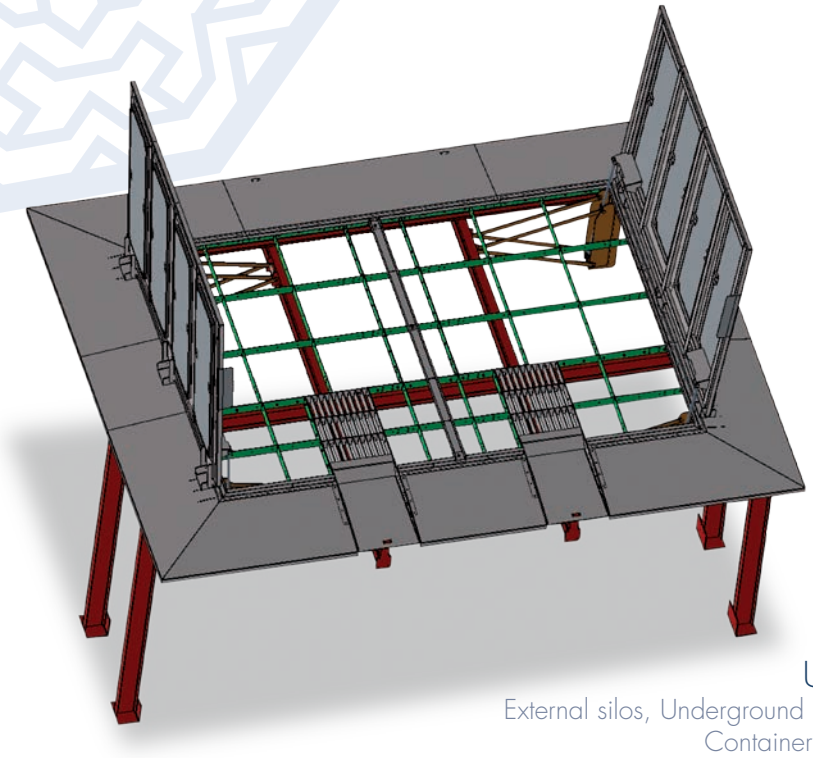
SMART HYDRAULIC HATCH

▪ Single-wing / double-wing design for automatic filling and storage of biomass ▪ Complete set of hydraulic pistons, hydraulic aggregate and mains ▪ Atmospheric precipitation resistant design with moisture exhaustion systém ▪ Design variant with supporting ramps and protective barriers ▪ Remote control ▪ Light and sound indication of movement and warning marking at full opening ▪ Monitoring and indication of material level in the silo together with design of its filling ▪ Protecting grid against falling into the silo ▪ Service opening for emergency entry into the silo

SMART HYDRAULIC HATCH

Purity to Nature
Savings to Clients
Comfort to Users

ISO 9001:2009

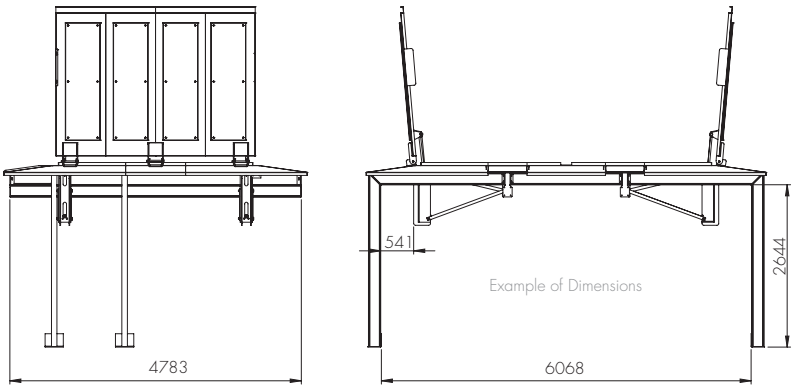


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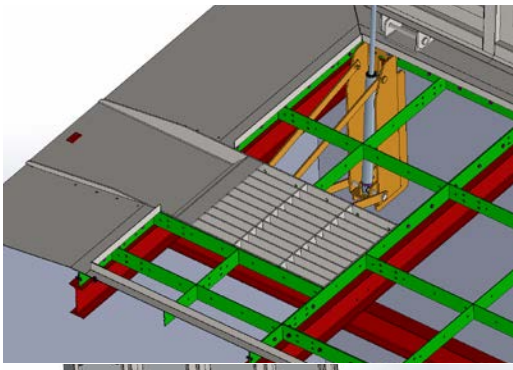
External silos, Underground silos,
Container silos

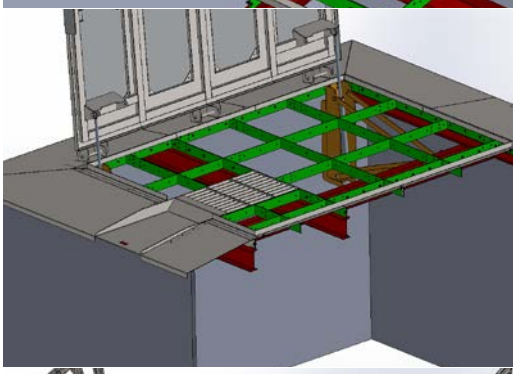
Dimensions:

Minimum – Maximum dimensions of the manhole: 1 x 1 m – 6 x 6 m



Specification and design:





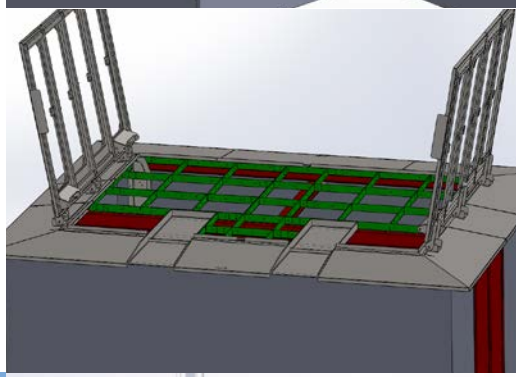


Photo Gallery ➔







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SMART REFERENCE BOOK 2019/2020





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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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SMART REFERENCE LIST | SMART HYDRAULIC HATCH
SWEDEN



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SWEDEN



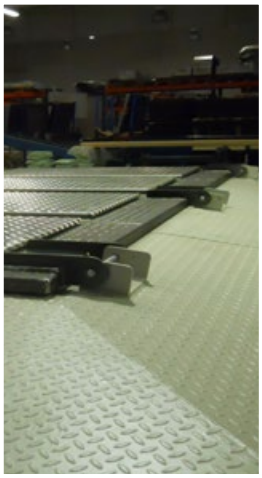
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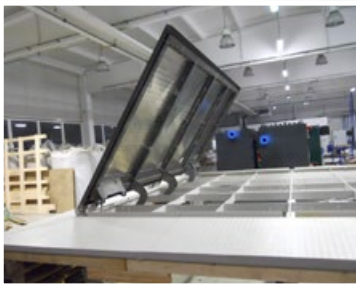
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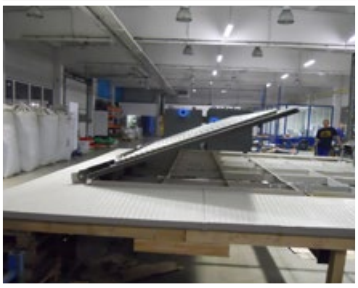


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SMART REFERENCE LIST | SMART HYDRAULIC HATCH
IRELAND









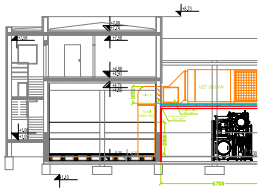
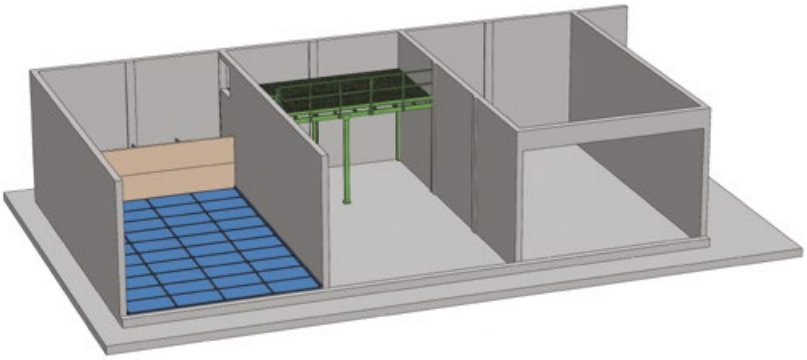
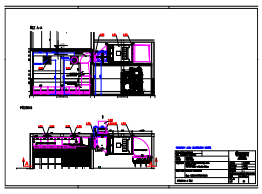
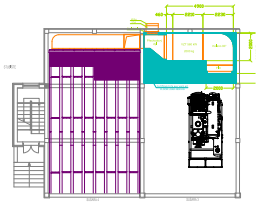
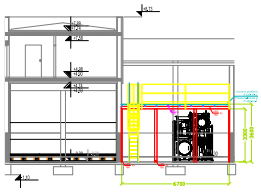
SMART HEATING TECHNOLOGY

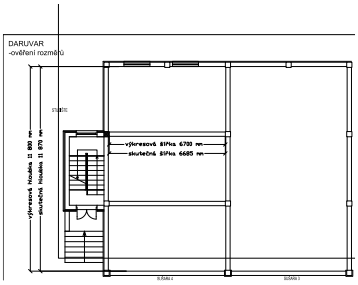
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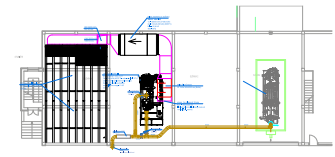
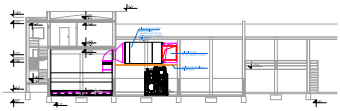
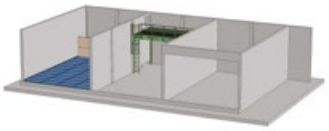
SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART WOOD CHIPS DRYER 560 KW

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 DYNAMIC WEIGHT CAPACITY, SPECIAL PERFORATED PLATES, CORNER PLATES, WALL PROTECTION BARRIERS, MOISTURE-EXHAUSTING WALL FANS, WITH SILENCERS FOR 35DB, FIRE-PROOF FLAPS, TEMPERATURE SENSORS, MOISTURE SENSORS, REMOTE ICLOUD MONITORING DARUVAR, CROATIA



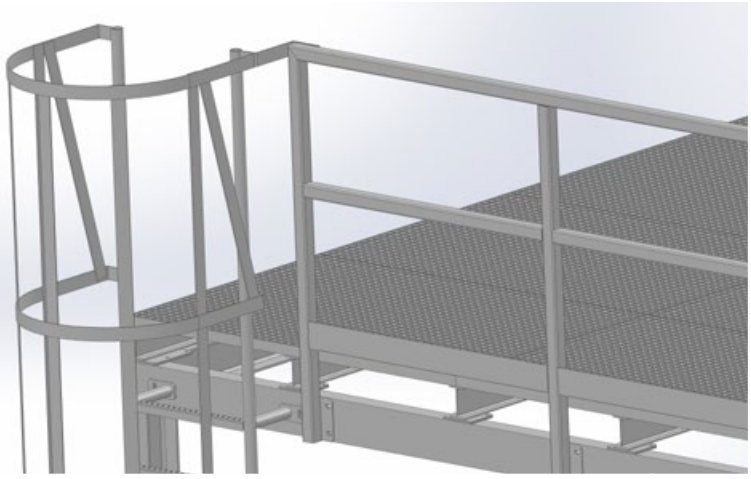
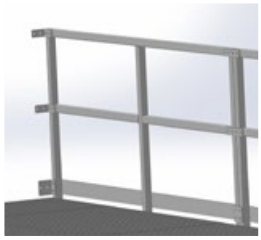
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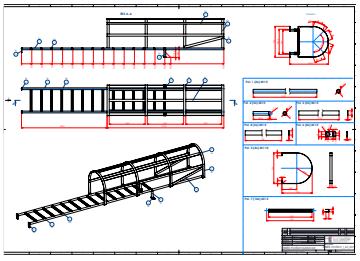
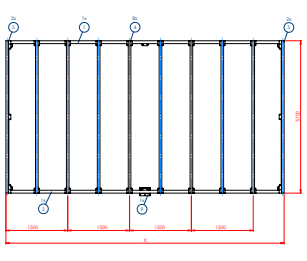
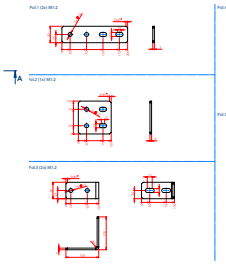
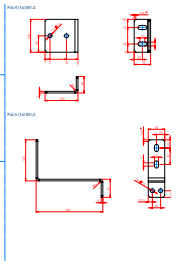
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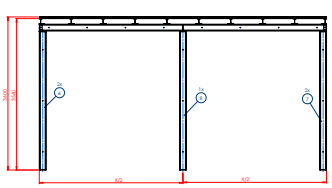
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SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART WOOD CHIPS DRYER 560 KW

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 DYNAMIC WEIGHT CAPACITY, SPECIAL PERFORATED PLATES, CORNER PLATES, WALL PROTECTION BARRIERS, MOISTURE-EXHAUSTING WALL FANS, WITH SILENCERS FOR 35DB, FIRE-PROOF FLAPS, TEMPERATURE SENSORS, MOISTURE SENSORS, REMOTE ICLOUD MONITORING DARUVAR, CROATIA



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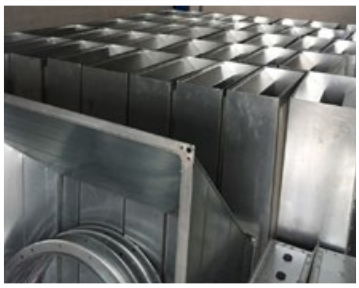
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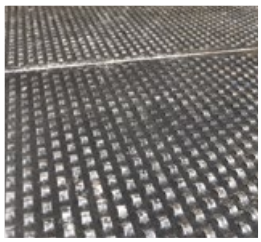
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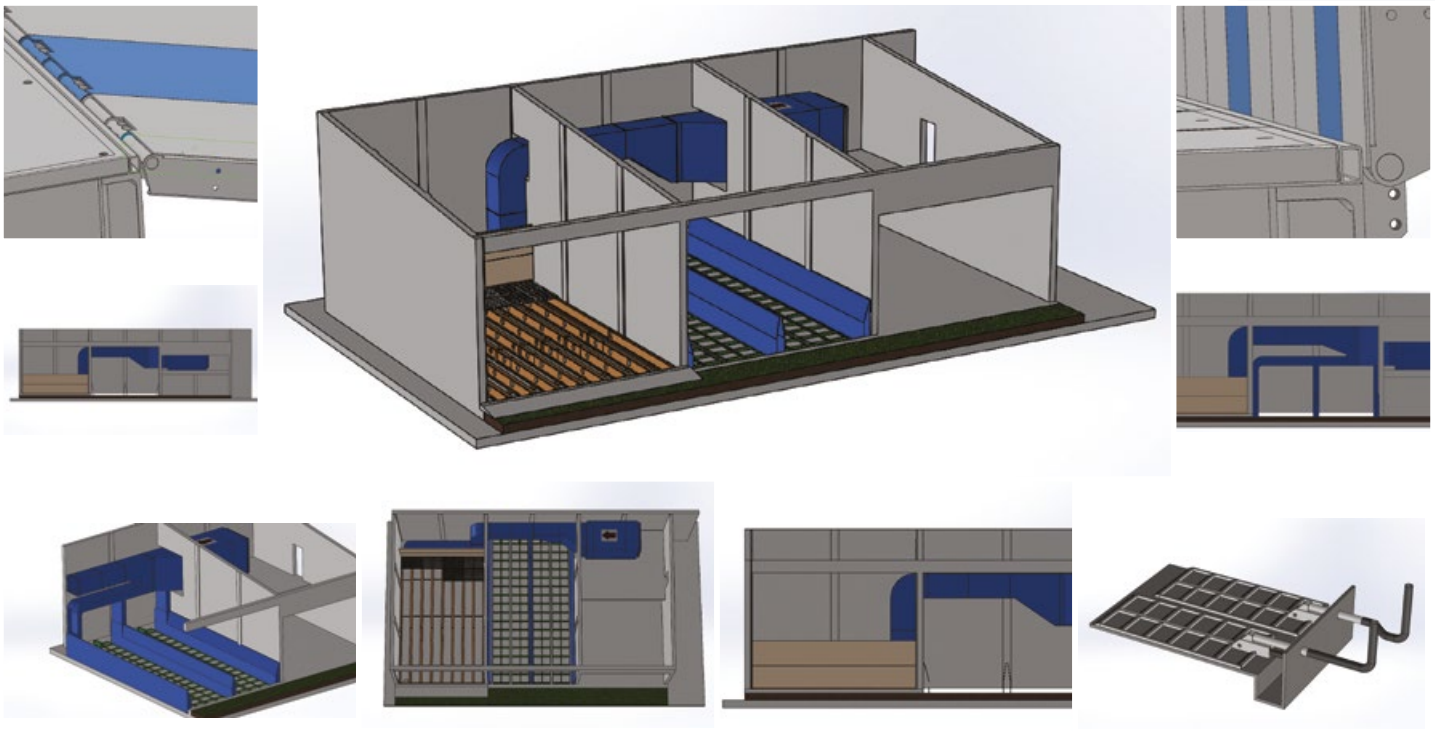



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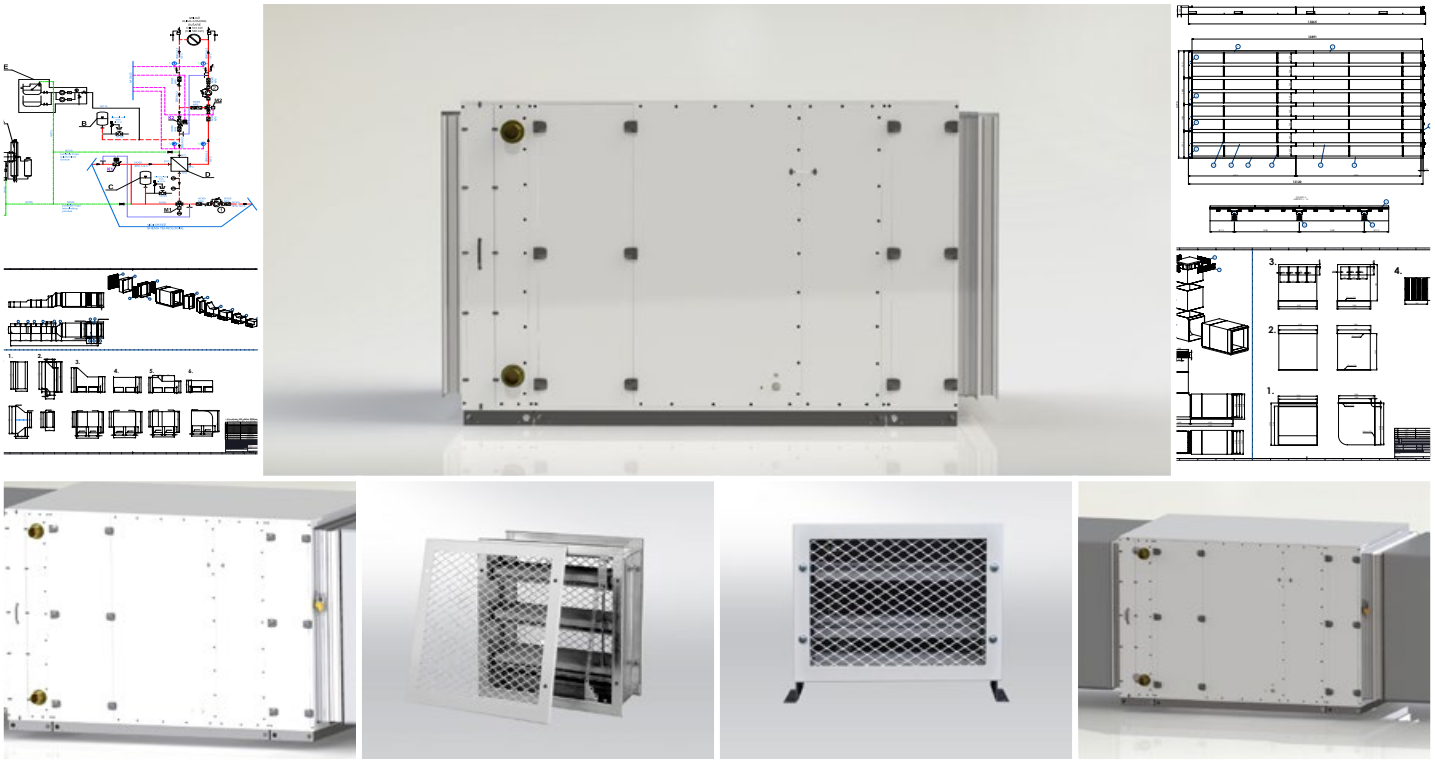


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SMART REFERENCE LIST | SMART BIO-HOUSE SOLUTION 500 KW

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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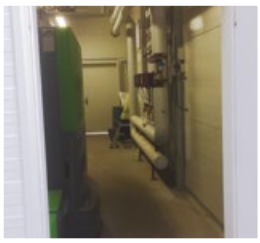
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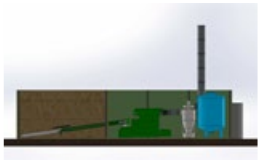


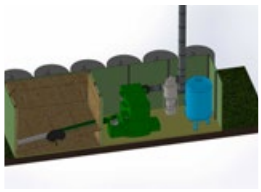
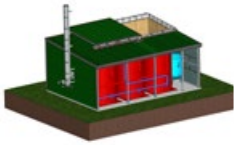


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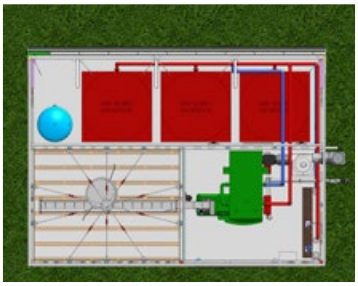
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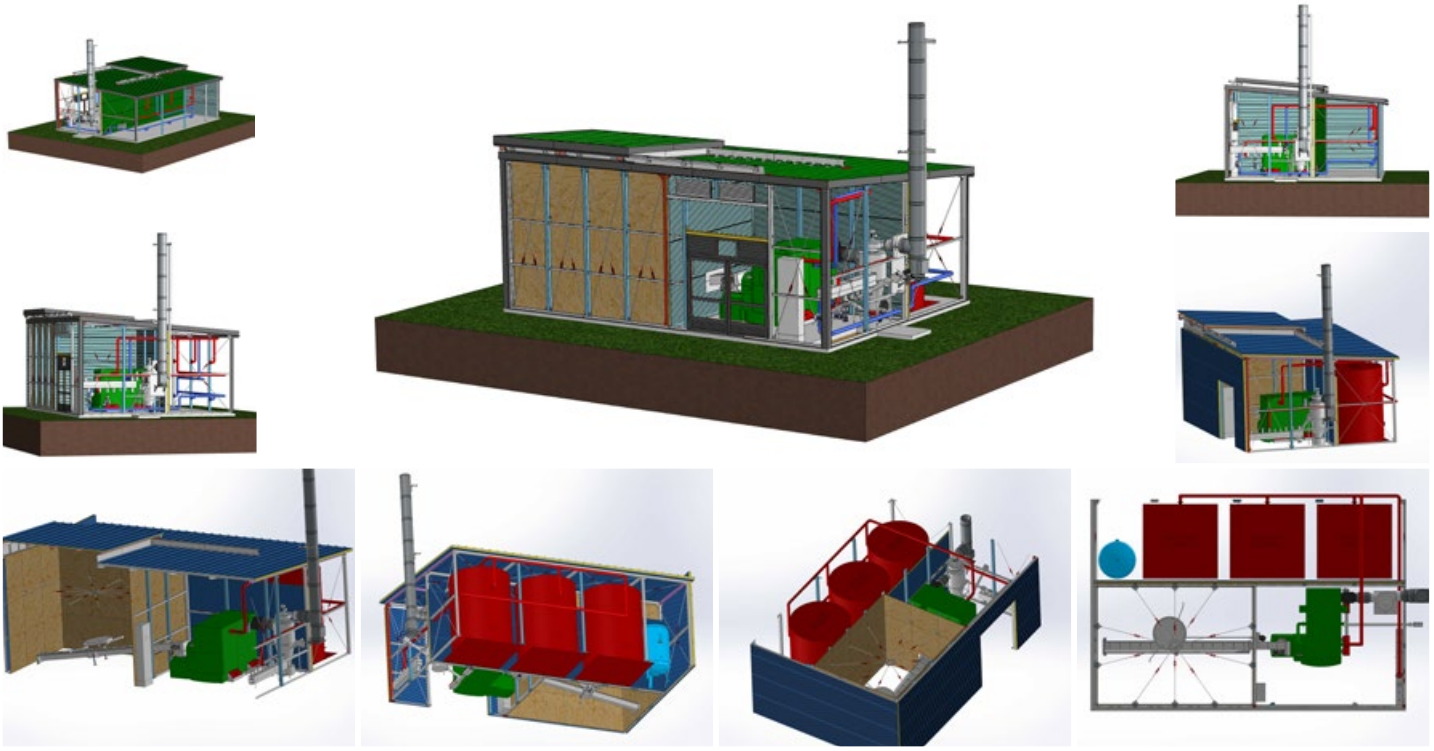

Boiler House Design with Silo








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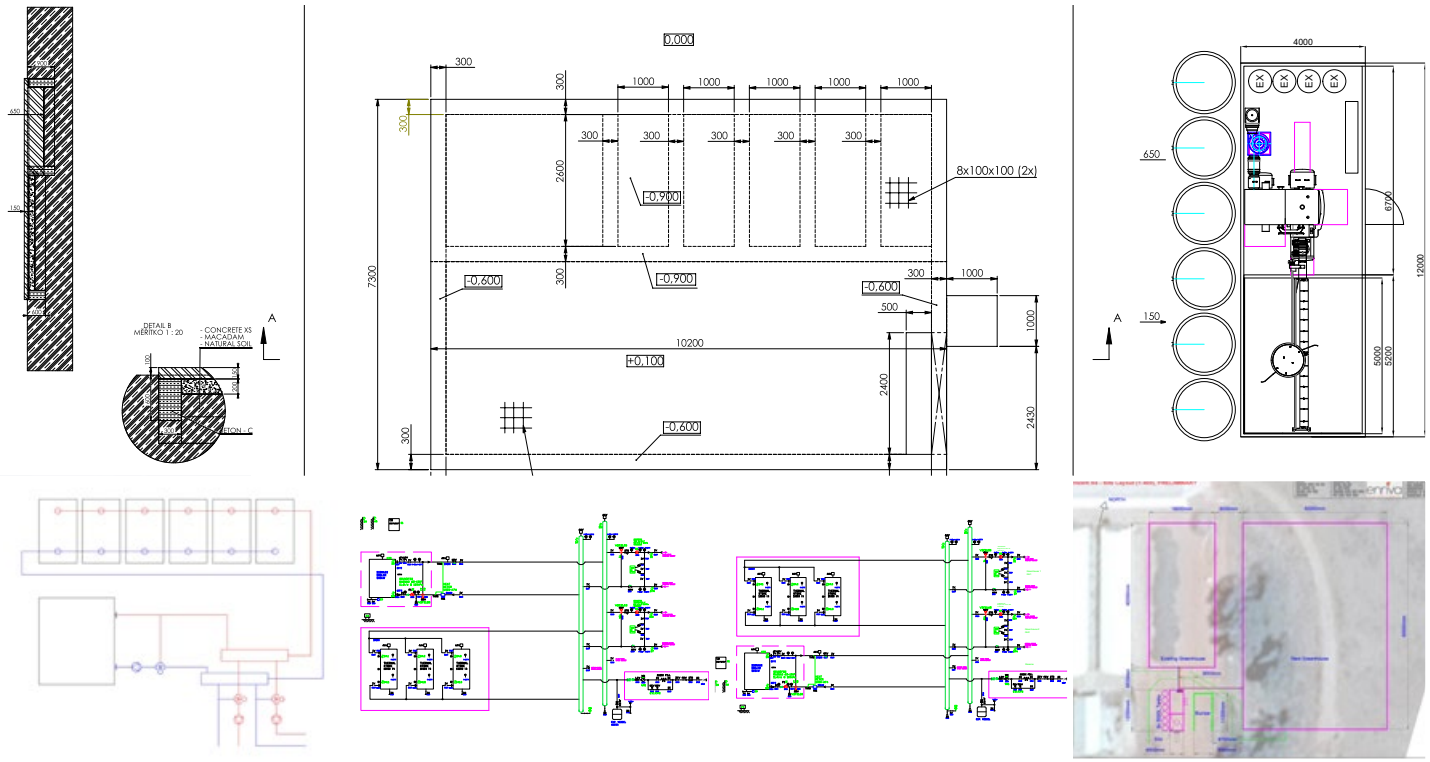


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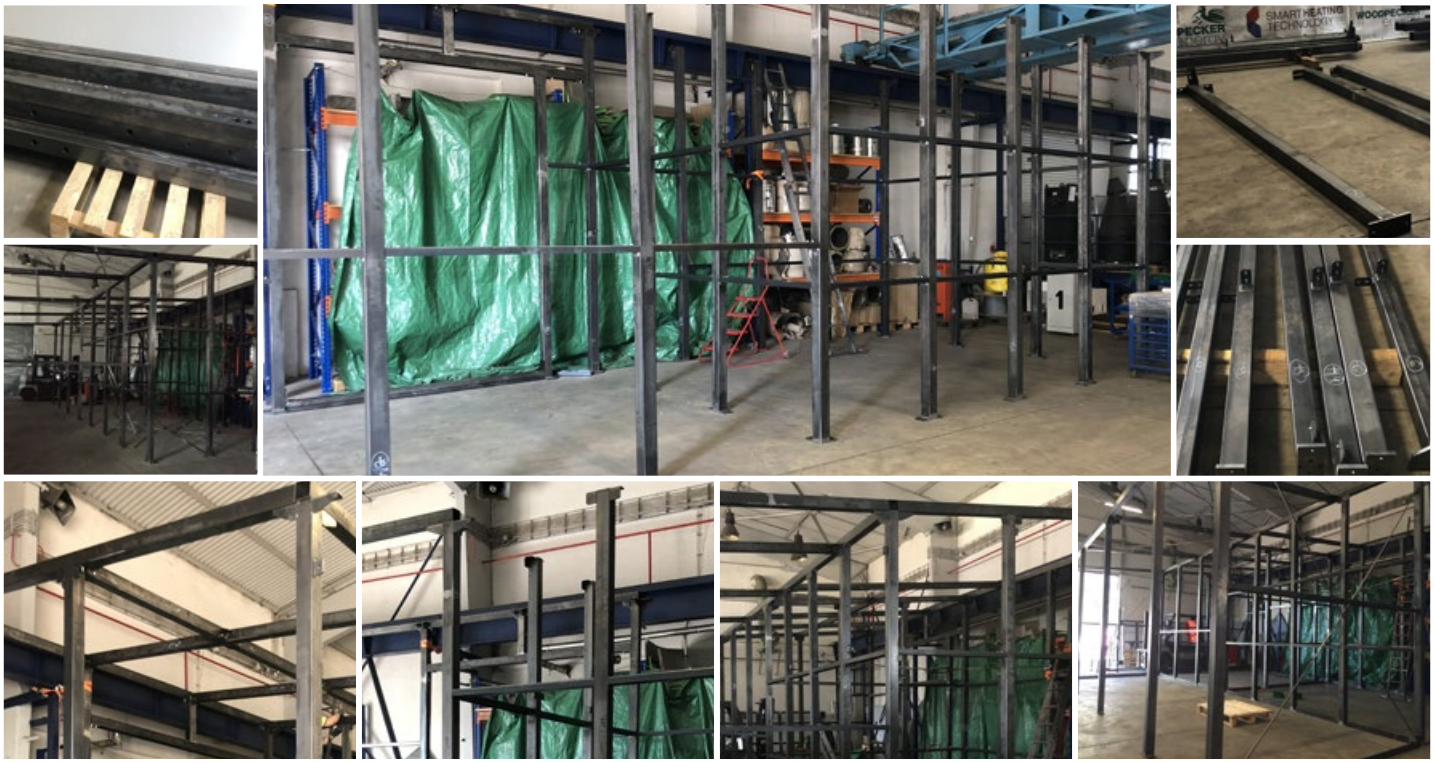


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SMART REFERENCE LIST | SMART BIO-HOUSE SOLUTION 500 KW WITH MULTI-FUEL SILO WITH MOVING ROOF + 3 X 10 000 L ACCUMULATION TANKS

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












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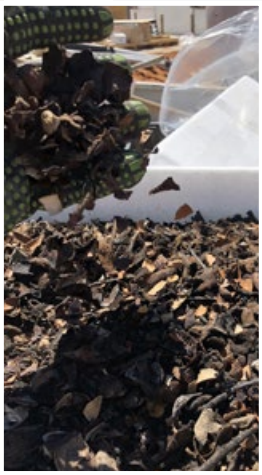
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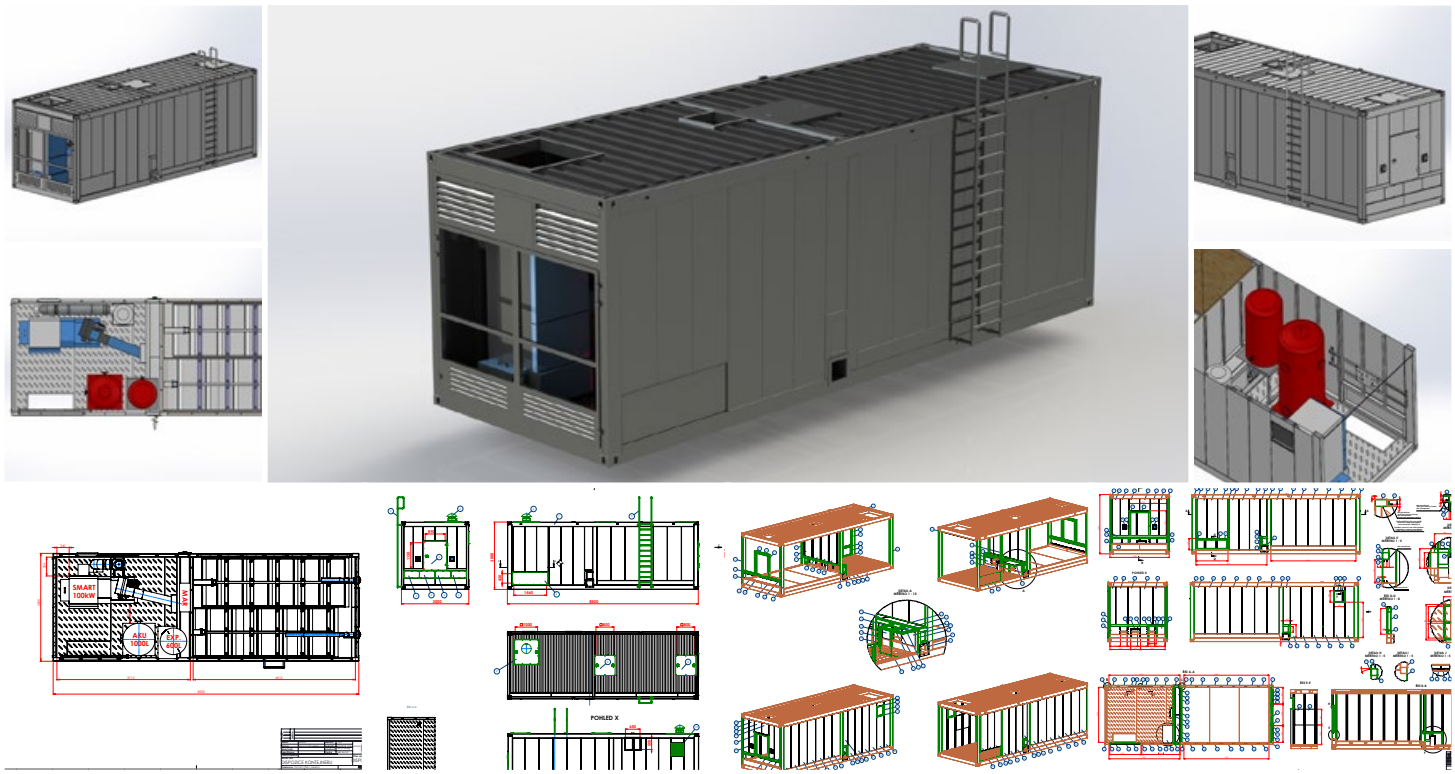


SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

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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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



SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART TOTAL CABIN 200 KW

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TOTAL BENZINSKA STANICA, LICHTENBUSCH, RAEREN, BELGIJA



SMART HEATING TECHNOLOGY

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



SMART HEATING TECHNOLOGY

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

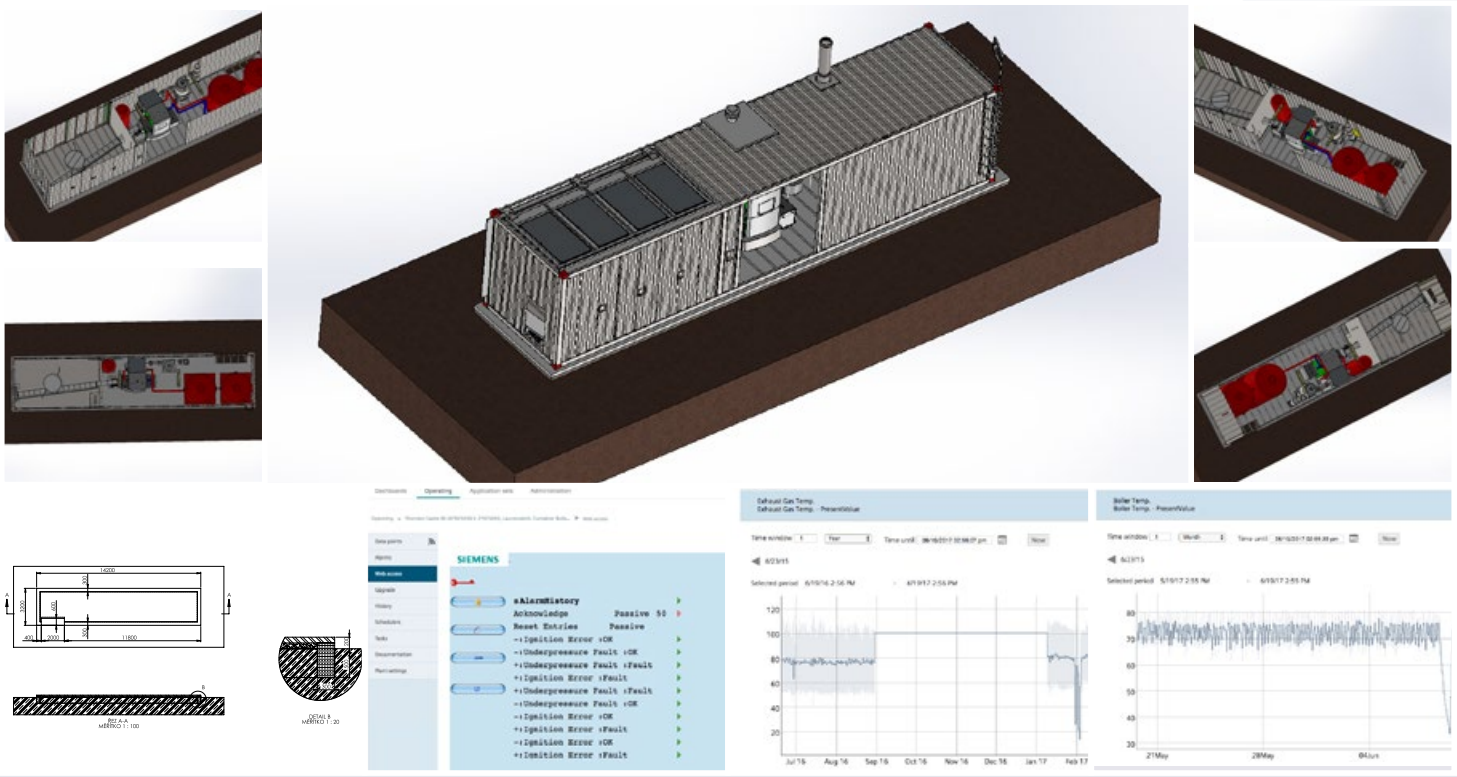
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BRISTOL, UK



SMART HEATING TECHNOLOGY

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



SMART HEATING TECHNOLOGY

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



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LUNDIE CASTLE, EDZELL, SCOTLAND










SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART CABIN 220 KW

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











SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART CABIN 220 KW

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



SMART HEATING TECHNOLOGY

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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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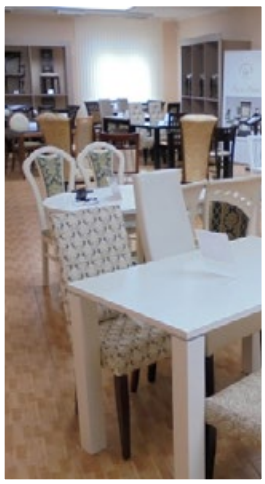



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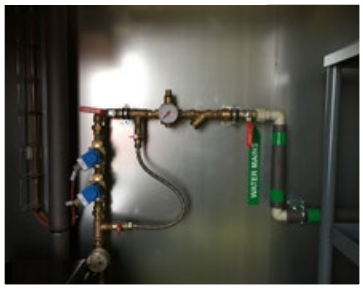
SMART REFERENCE LIST | SMART CABIN 250 KW

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

SMART REFERENCE LIST | SMART CABIN 250 KW

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



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SMART HEATING TECHNOLOGY

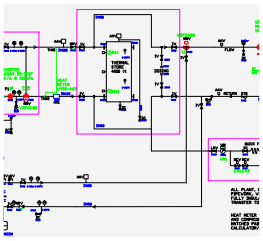
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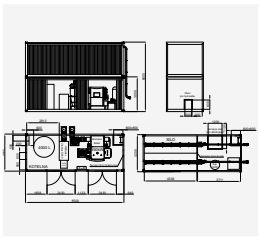
SMART REFERENCE LIST | SMART DOUBLE-DECKER CABIN

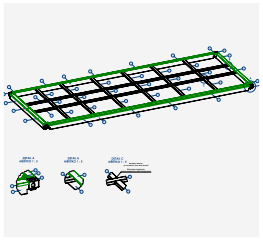
SMART MICRO PANELS CABIN SET – 2 X 8,5 M X 3,2 M X 3 M, 350 KW BIOMASS BOILER + 300 KW OIL BACK-UP BOILER + 4000 L ACCUMULATION TANK + 1000 L EXPANSION VESSEL + 1 EXPORT CIRCUIT + MAR UNIT + ICLOUD MONITORING, ONLY PELLETS SILO WITH CAPACITY 15 TONS + PNEUMATIC FILLING PIPES + LEVEL SENSORS, 1000 L DOUBLE-WALL OIL TANK, INTERNAL INTERCONNECTING LADDER, LIGHTS, VENTILATION, SAFETY LIGHTS, SAFETY SENSORS, CCTV

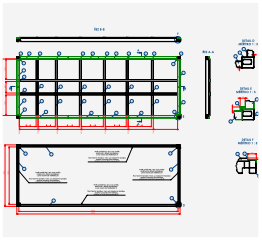
NURSING HOUSE, PONFERRADA, SPAIN

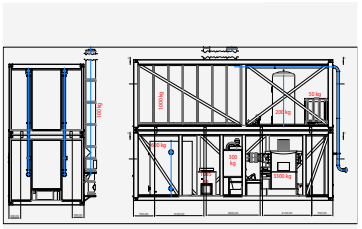


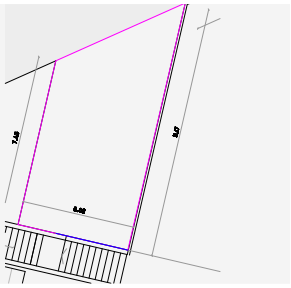


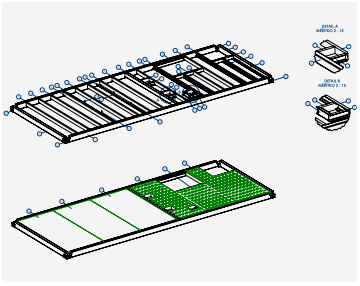


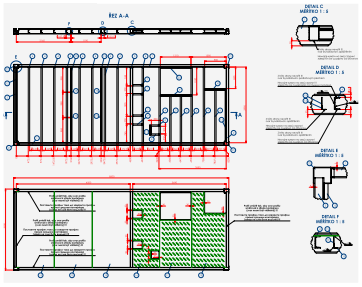












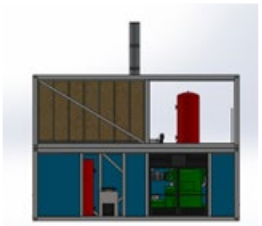
SMART HEATING TECHNOLOGY

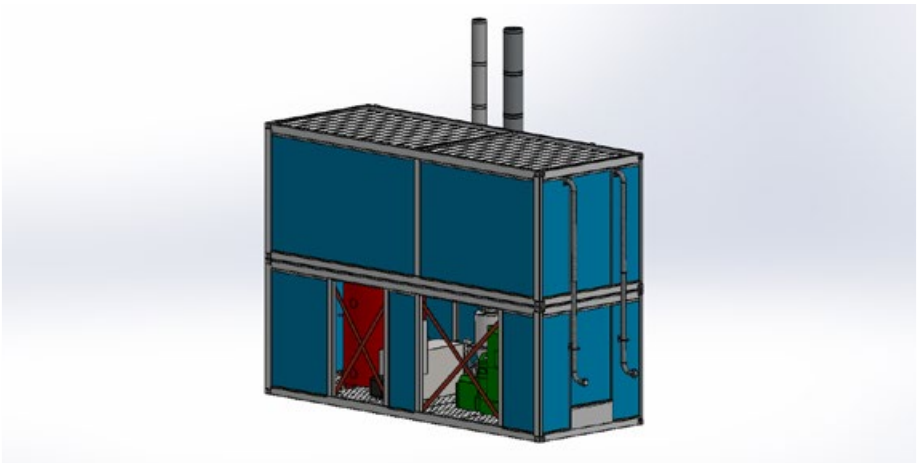
SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART DOUBLE-DECKER CABIN

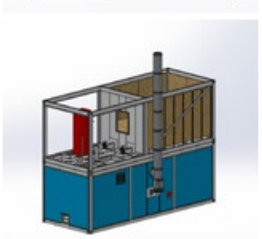
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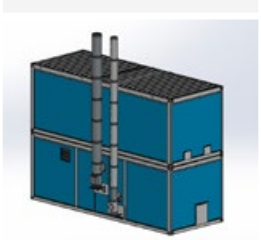
NURSING HOUSE, PONFERRADA, SPAIN

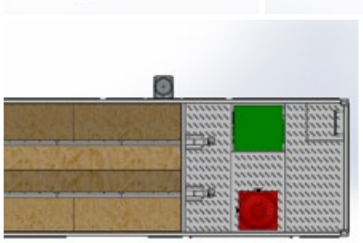


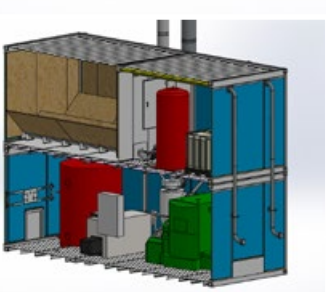


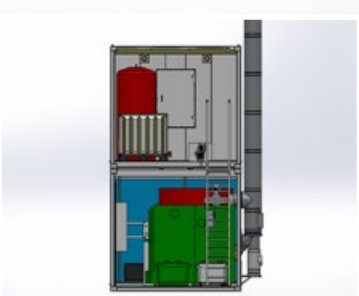


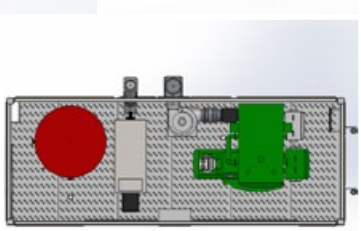












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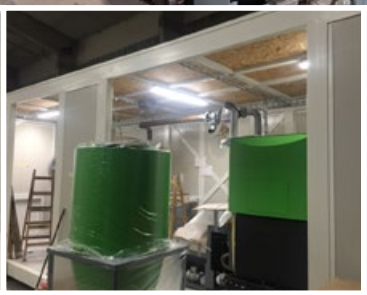
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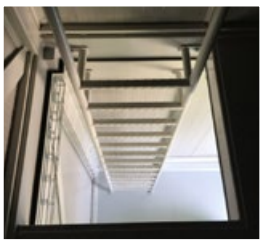
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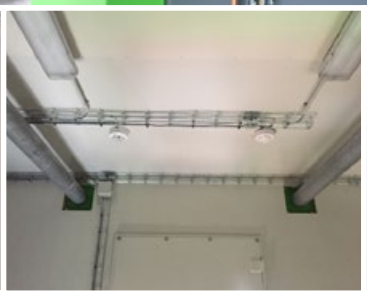
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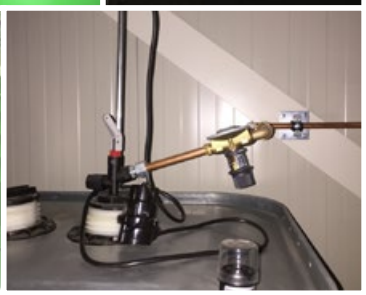
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SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART MICRO CABIN 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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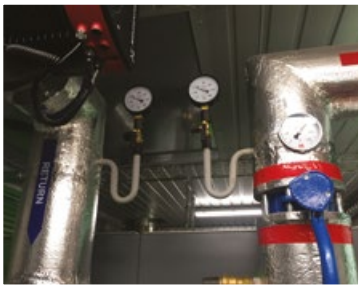
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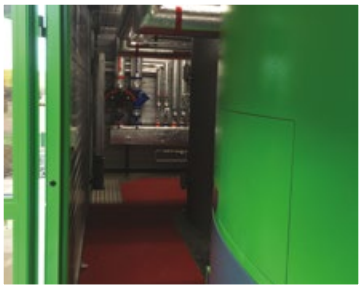
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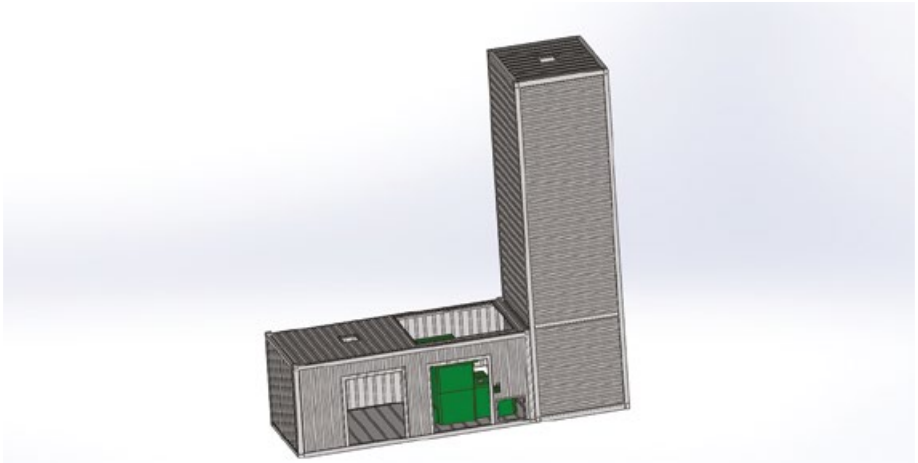



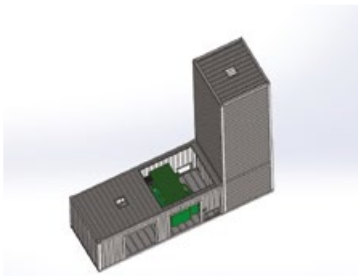
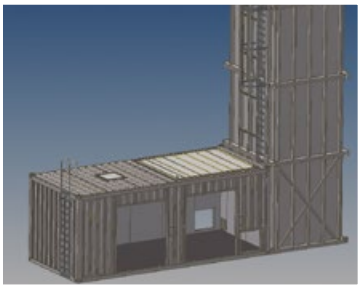


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SMART REFERENCE LIST | SMART MICRO CABIN 500 KW

WITH VERTICAL SILO 90 M³
WALHAMN, SWEDEN




SMART HEATING TECHNOLOGY

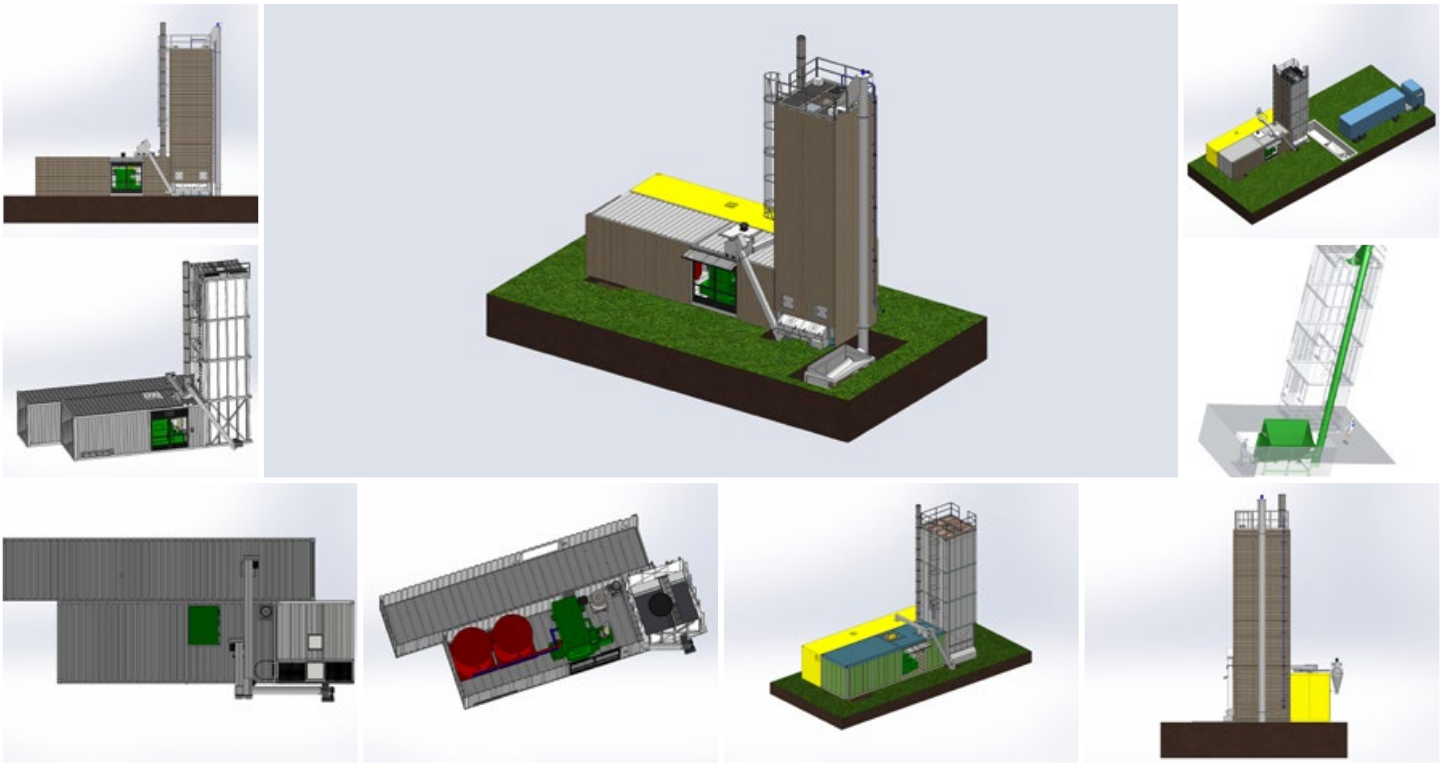
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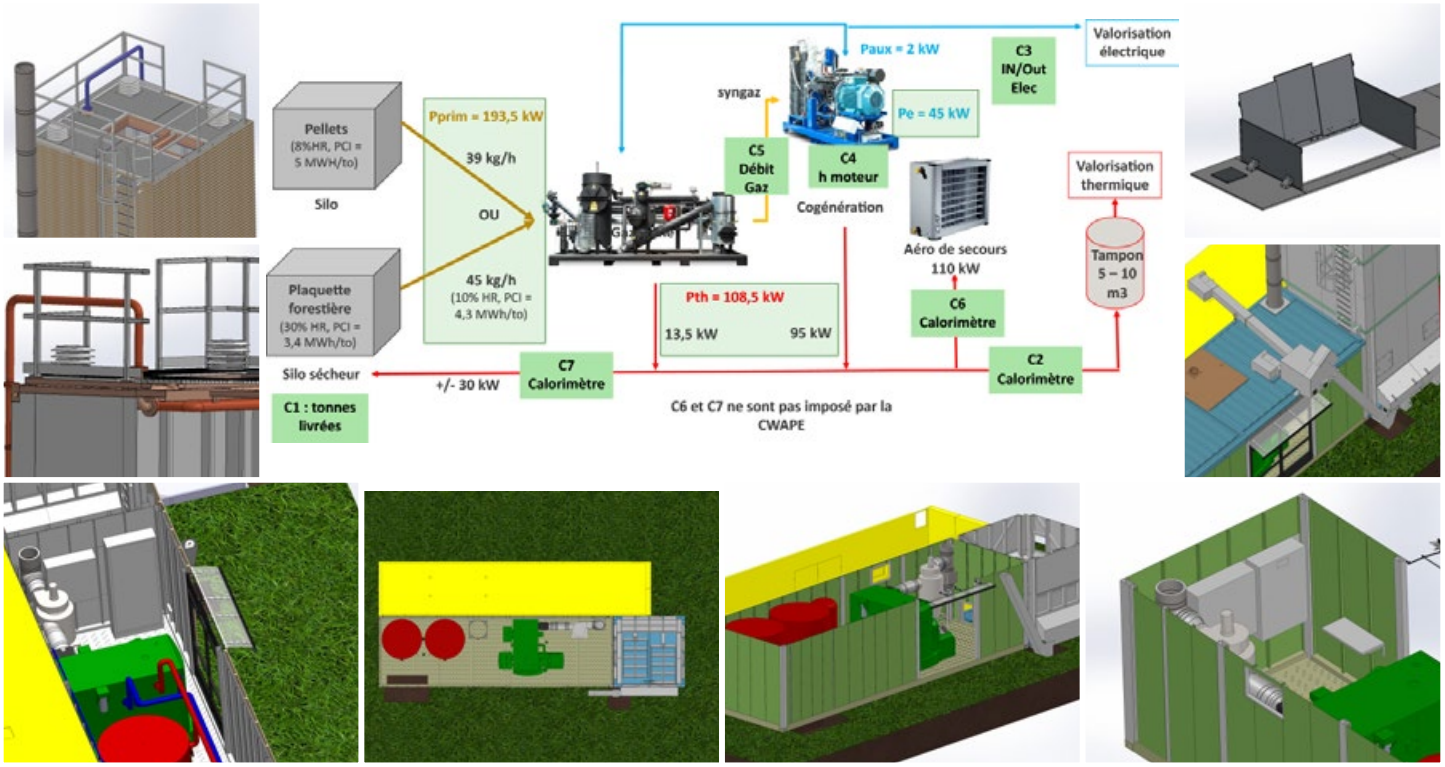
SMART MICRO CABIN 500 KW WITH VERTICAL SILO 100 M³
AND COGENERATION 100 KWE + 200 KW
WERSON CONTAINERIZED NURSING HOUSE, CRISNÉE, BELGIUM



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SMART REFERENCE LIST I SMART SUPER CABIN SET

SMART MICRO CABIN 500 KW WITH VERTICAL SILO 100 M³
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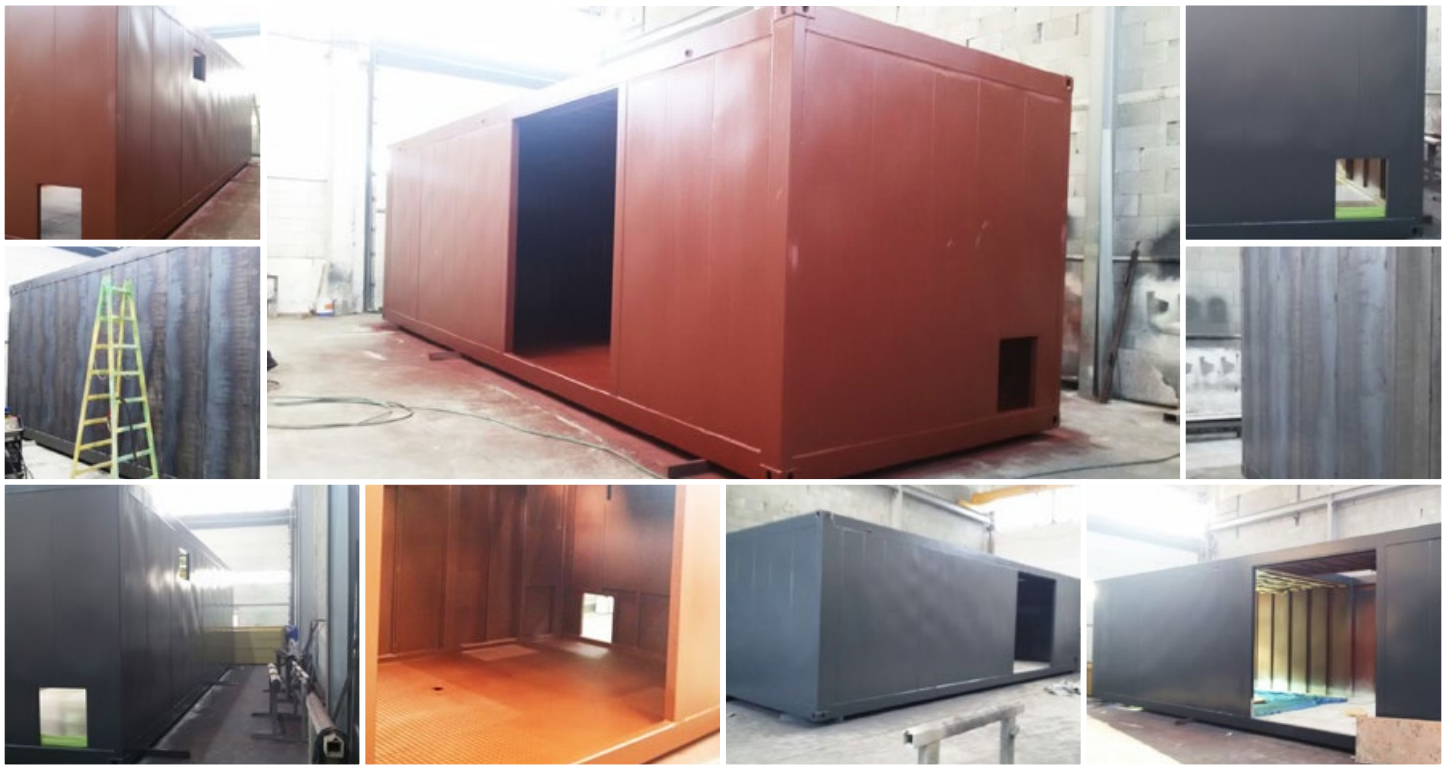
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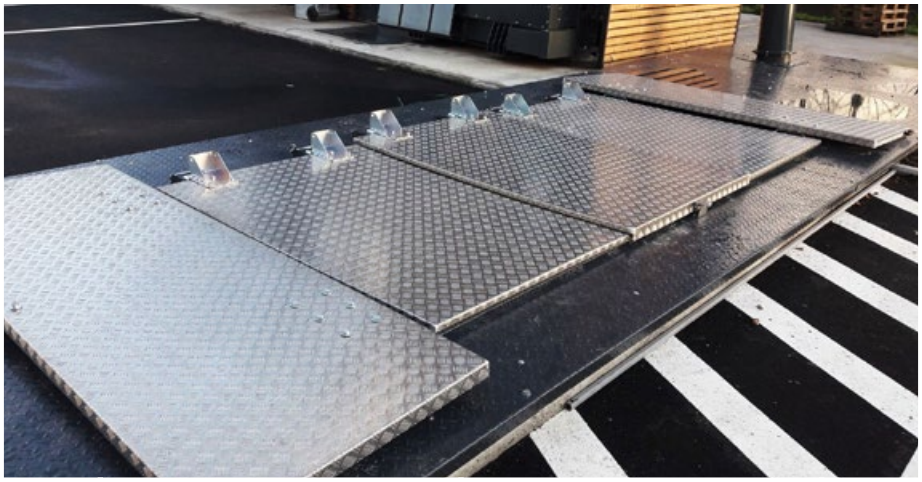
SMART HEATING TECHNOLOGY

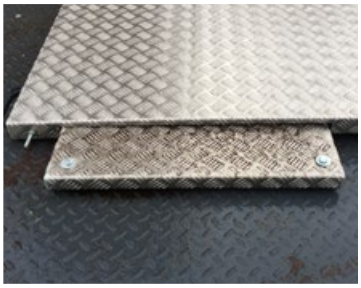
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SMART REFERENCE LIST | SMART SUPER CABIN SET

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 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









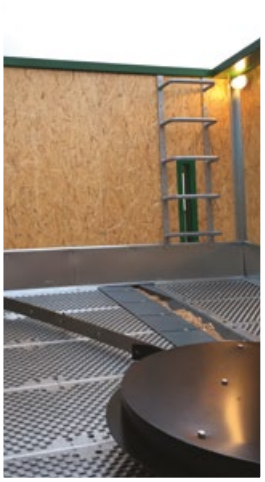


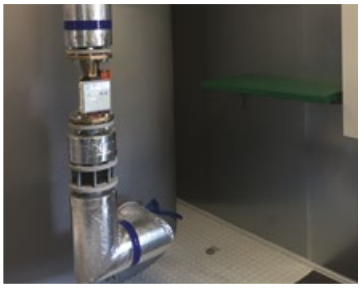
SMART HEATING TECHNOLOGY

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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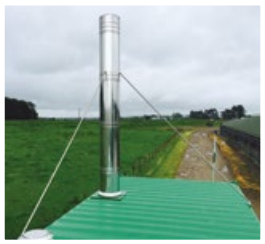
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SMART REFERENCE LIST | SMART CABIN 500 KW

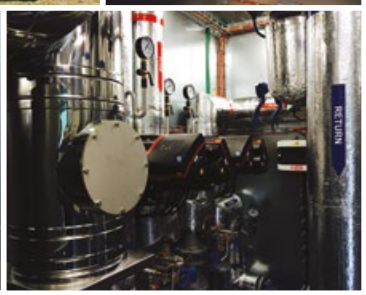
MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
2 HEATING CIRCUITS – FULLY MONITORED AND REGULATED
CHICKEN FARM, VL, SCOTLAND









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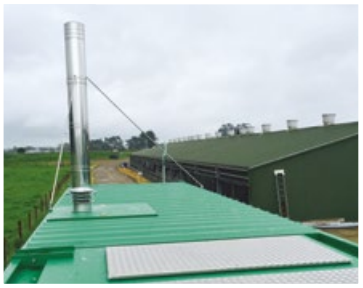
SMART REFERENCE LIST | SMART CABIN 500 KW

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







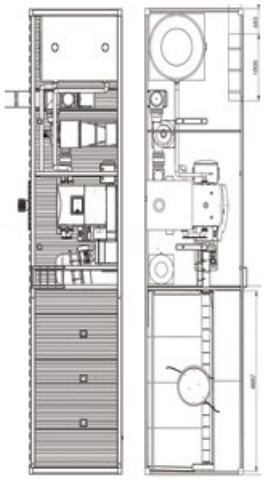


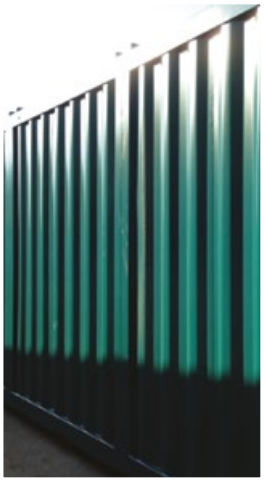
SMART HEATING TECHNOLOGY

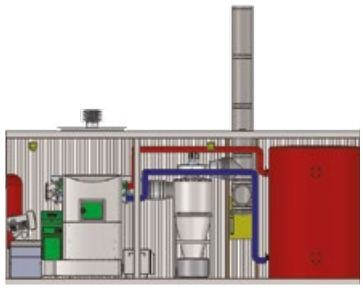
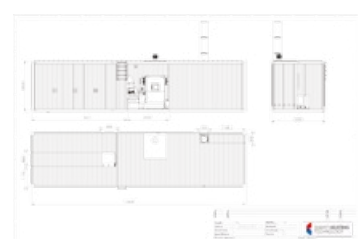
SMART HEATING TECHNOLOGY

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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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 HEATING TECHNOLOGY

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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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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SMART REFERENCE LIST | SMART CABIN 500 KW

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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SMART REFERENCE LIST | SMART CABIN 500 KW

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



SMART HEATING TECHNOLOGY

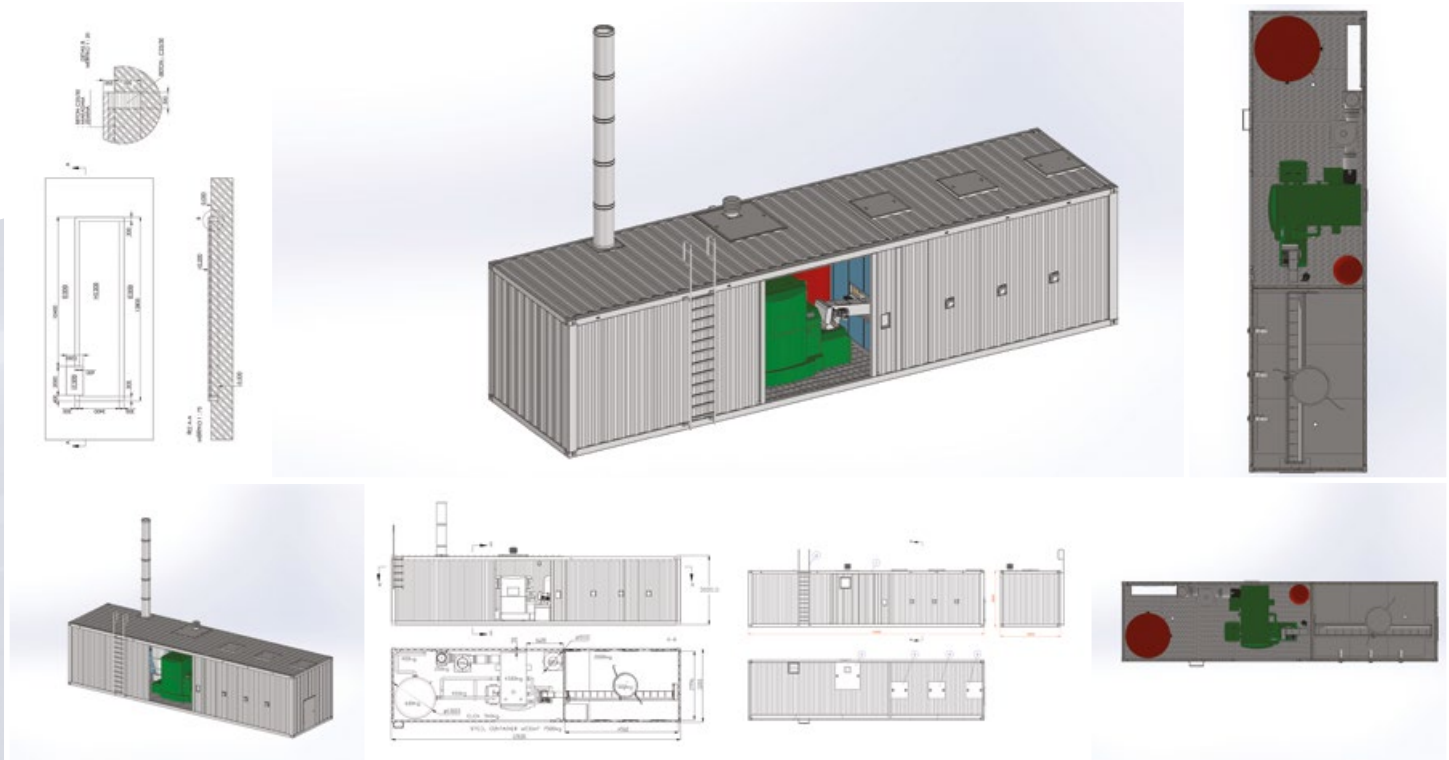
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WAREHOUSE TEMPERING, NEWPORT, WALES, UK



SMART HEATING TECHNOLOGY

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



SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART CABIN 500 KW

WOOD PELLETS SILO DESIGN WITH EMERGENCY ROOF FILLING OUTLETS
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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, WOOD PRODUCING FACTORY
SAINT GERMAIN LES BELLES, FRANCE



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, WOOD PRODUCING FACTORY SAINT GERMAIN LES BELLES, FRANCE



SMART HEATING TECHNOLOGY

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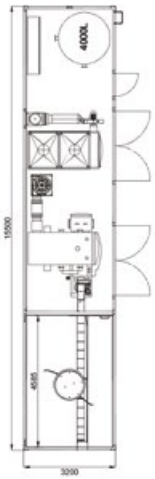
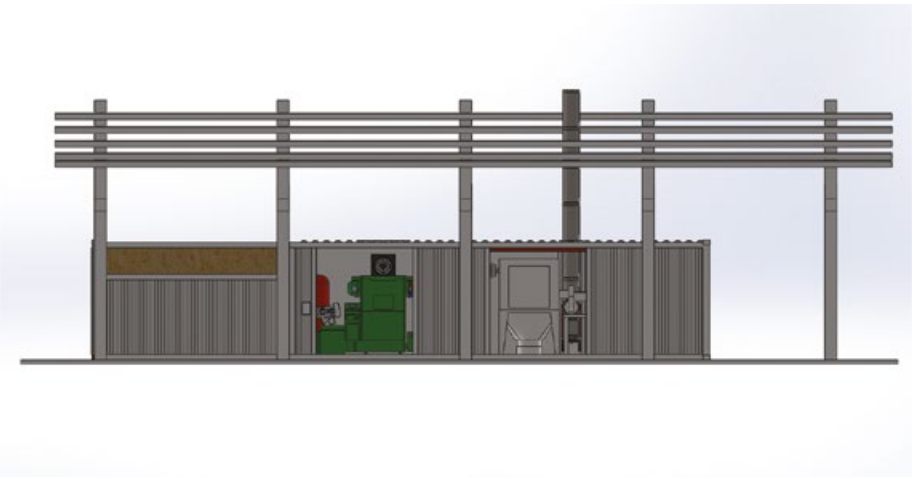


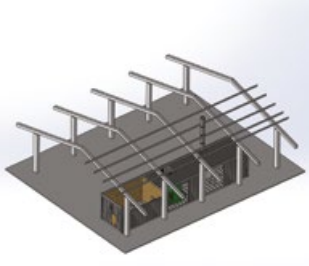
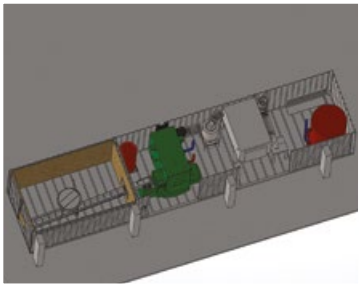
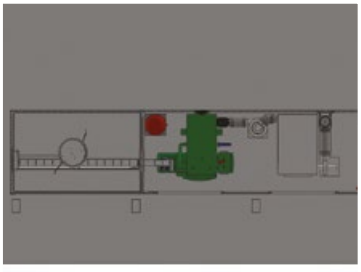
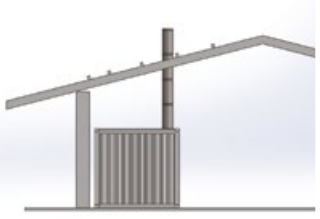


SMART HEATING TECHNOLOGY

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 FARM PANEL CABIN 500 KW

SPECIAL STEEL STRUCTURE WITH KINGSPAN WALLS&ROOF PANELS, COVERING PLATES, ENTRY DOORS
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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
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CHICKEN FARM, PORTOMARIN, SPAIN



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SMART REFERENCE LIST | SMART-ETHX PANEL CABIN 500 KW

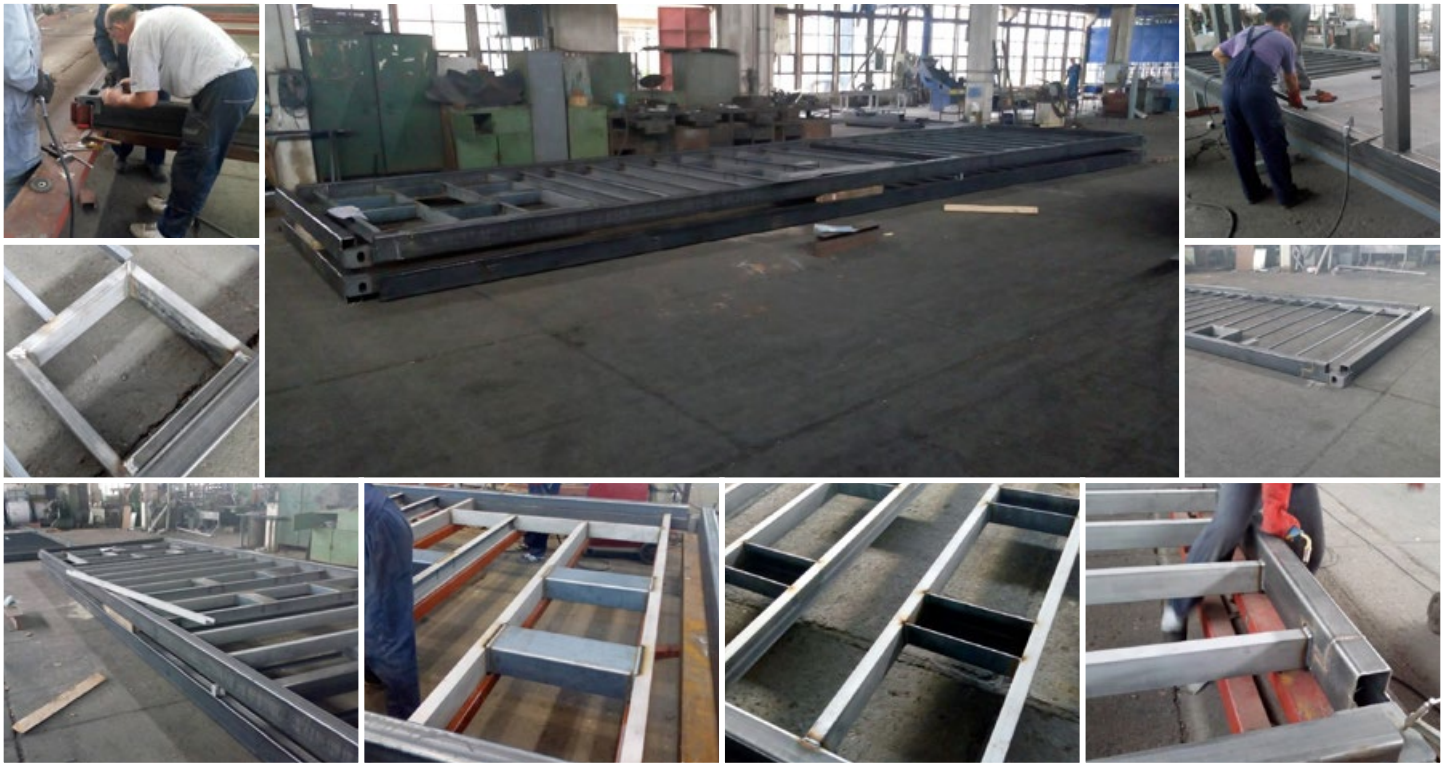
SPECIAL STEEL STRUCTURE WITH KINGSPAN WALL PANELS, COVERING PLATES, GLASS ENTRY DOORS, MULTI-FUEL SILO DESIGN WITH WOOD CHIPS BLOWING PIPES DN150 AND ROOF FILLING OUTLETS, 4000 L OF ACCUMULATION TANK STORAGE,
1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALISATION,
CARNBOOTH HOUSE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



SMART HEATING TECHNOLOGY

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, 1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALISATION, CARNBOOTH HOUSE HOTEL HEATING, GLASGOW, SCOTLAND



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SMART REFERENCE LIST | SMART-ETHX PANEL CABIN 500 KW

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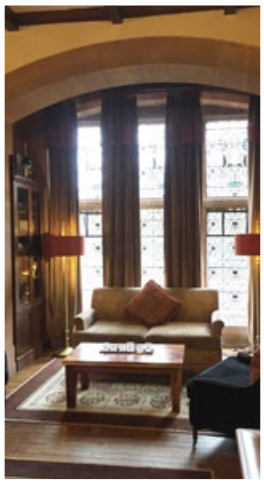


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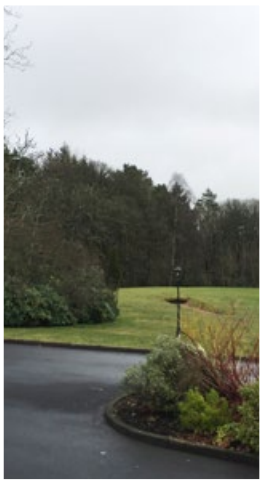
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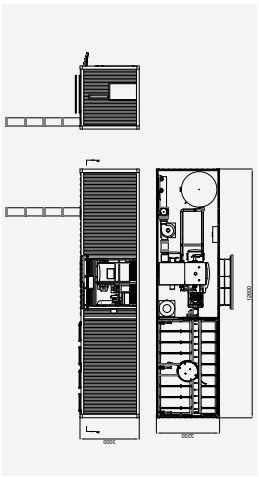


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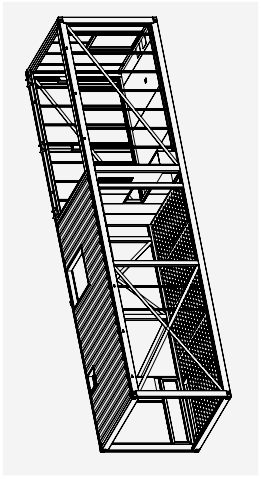
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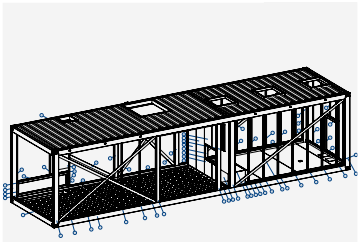
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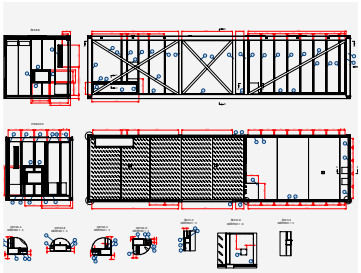
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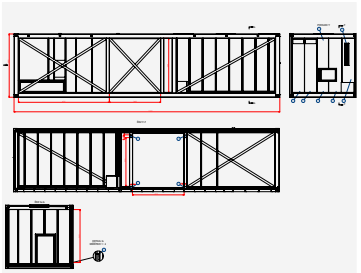


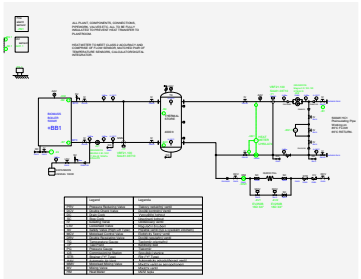










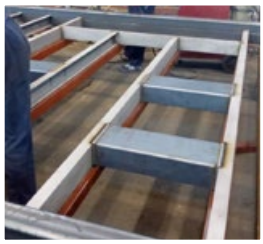


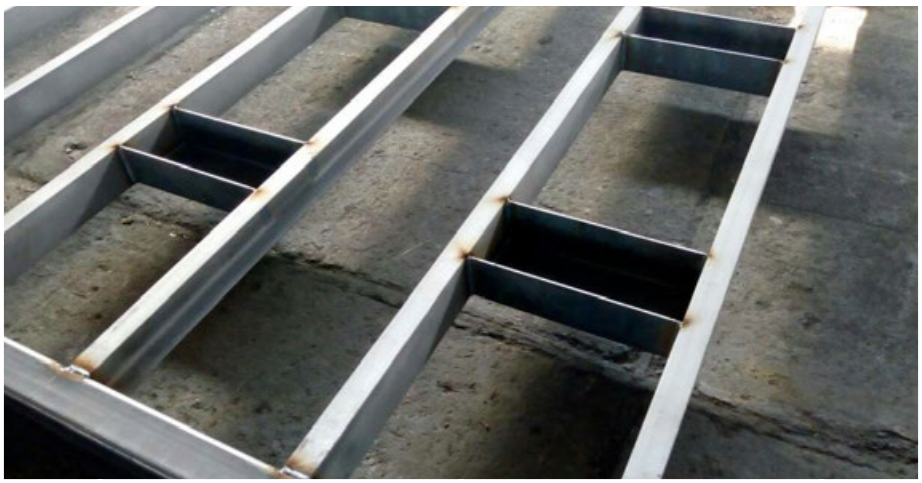
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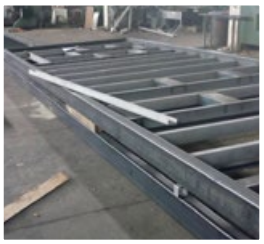
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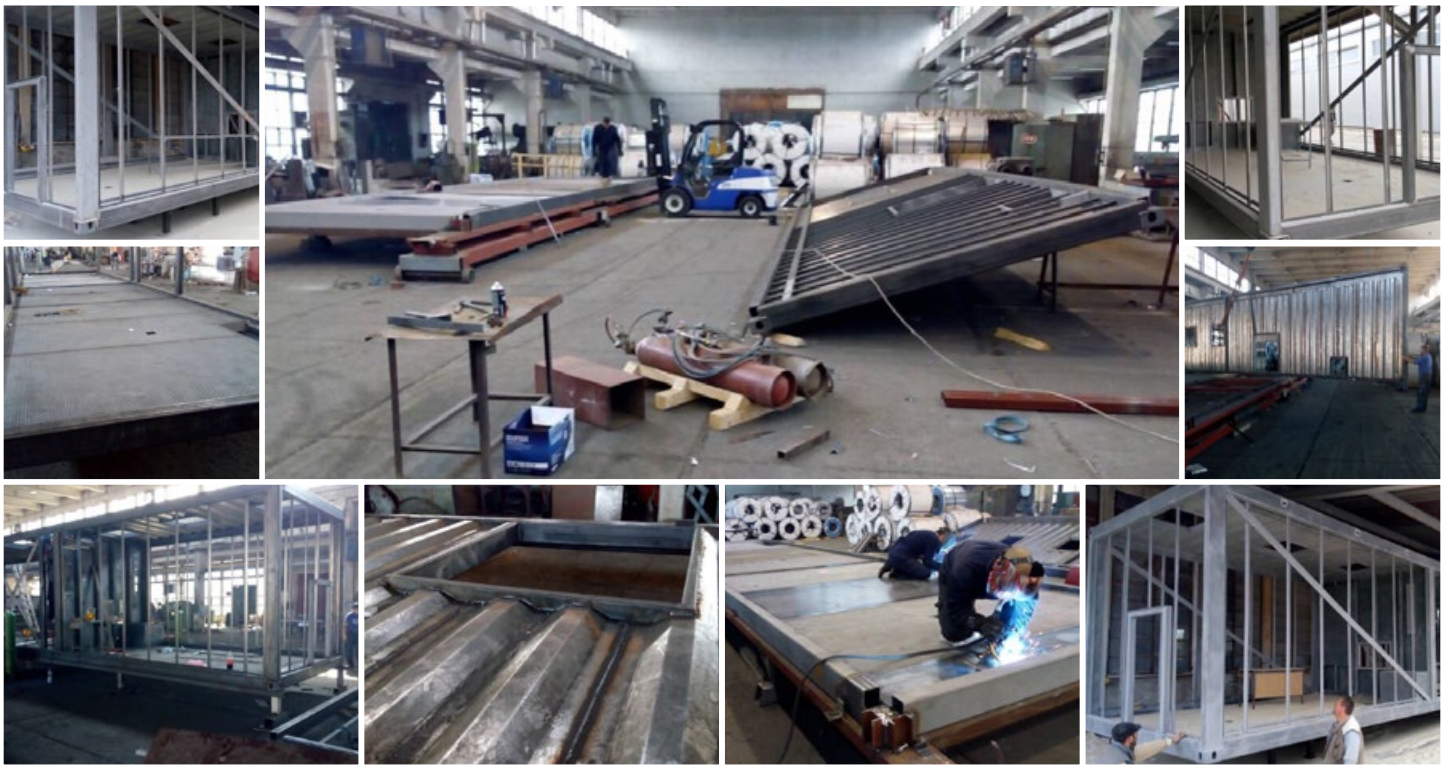


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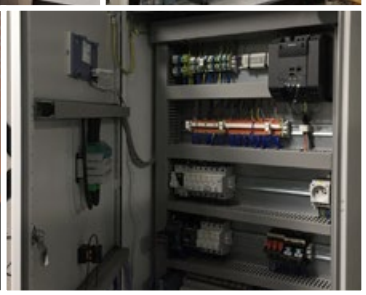
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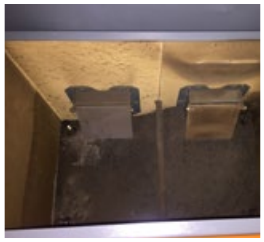
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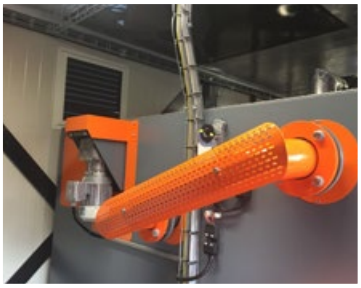
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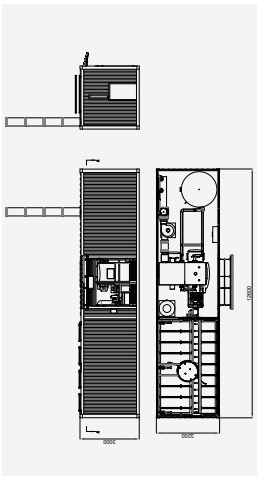


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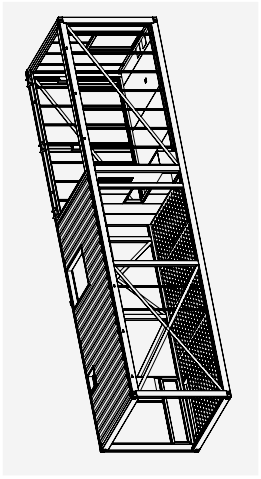
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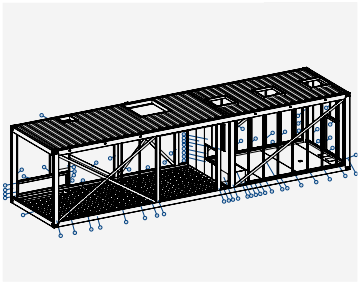
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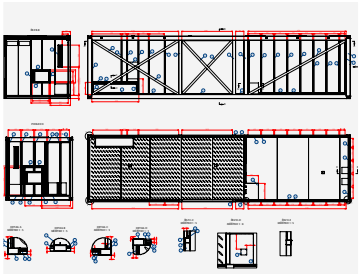
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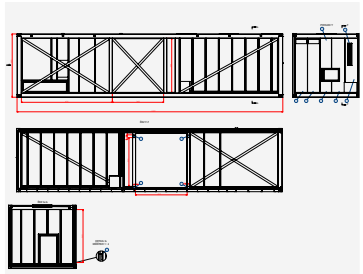


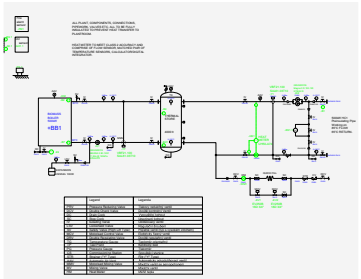












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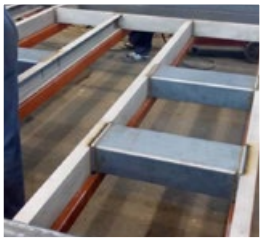
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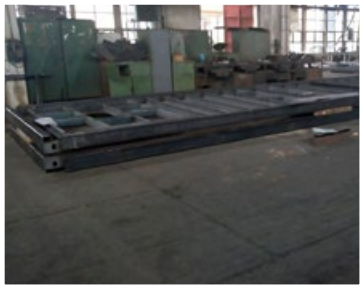




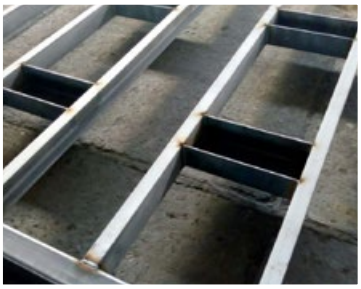














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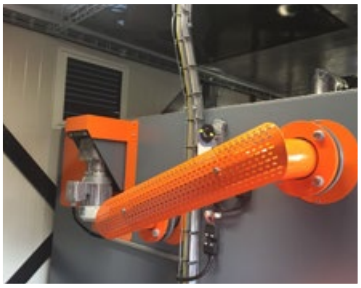
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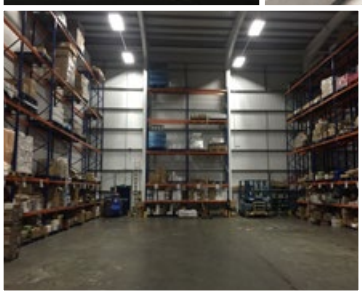
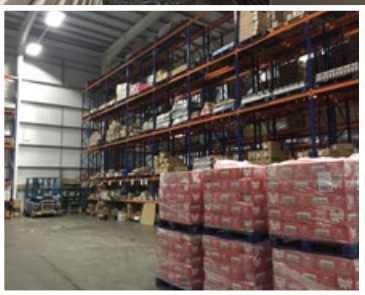
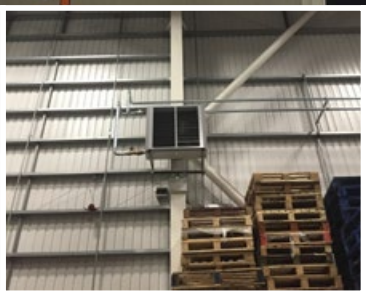
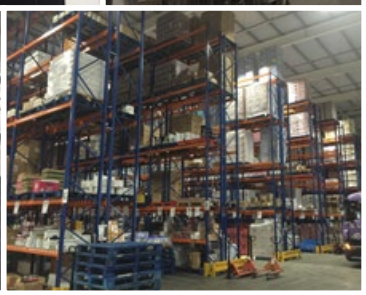
SMART REFERENCE LIST | SMART-ETHX PANEL CABIN 500 KW

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, FOOD STORAGE COMPANY HEATING, GLASGOW, SCOTLAND







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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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SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART SELF–DRYING CABIN 500 KW 2016/ SMART SELF-DRYING KINGSPAN PANEL CABIN 500 KW 2017

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



SMART REFERENCE LIST | SMART SELF-DRYING CABIN 500 KW 2016/ SMART SELF-DRYING KINGSPAN PANEL CABIN 500 KW 2017

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



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SMART HEATING TECHNOLOGY

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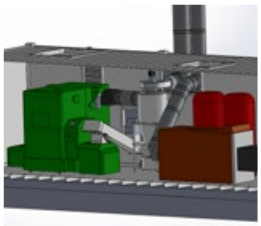
SMART REFERENCE LIST I SMART MAGNUM CABIN WITH BIOMASS-OIL COMBINATION 350 KW + 550 KW

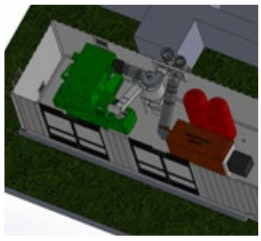
3,2 X 3 X 13,8 M SMART MAGNUM CABIN WITH 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1+1 HEATING CIRCUIT, 2 X 12 M
CHIMNEY + CHIMNEY STRUCTURE, MULTI-FUEL CONVEYOR CONNECTED TO AN EXISTING SILO WITH MOVING FLOOR
SCHOOL HEATING + APARTMENT BUILDING HEATING, LILLEHAMMER, NORWAY

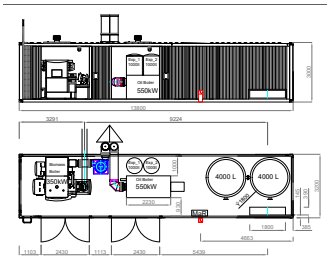




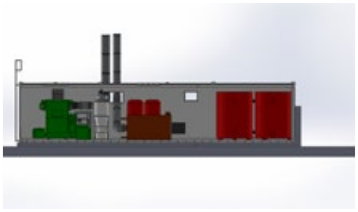


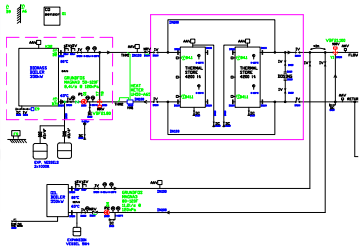






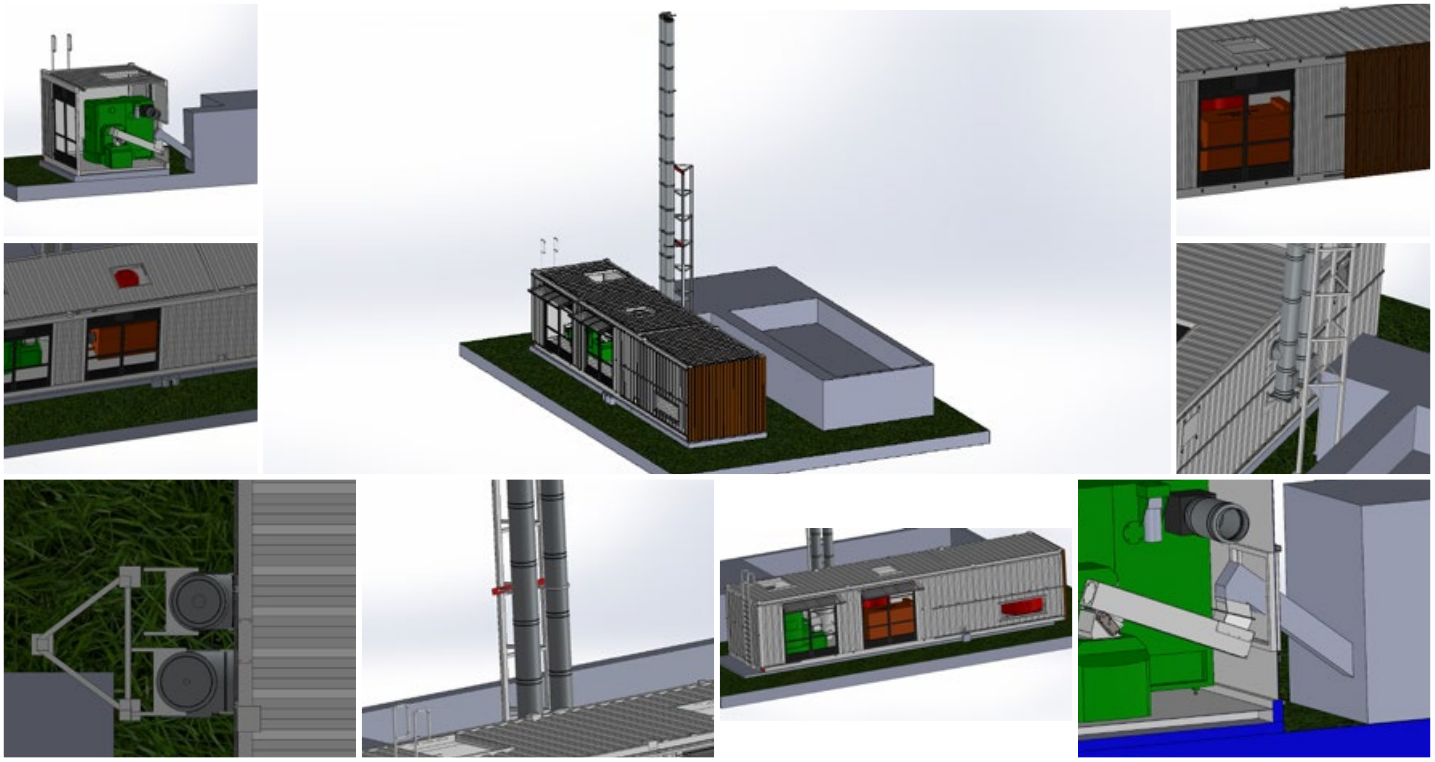






SMART REFERENCE LIST | SMART MAGNUM CABIN WITH BIOMASS–OIL COMBINATION 350 KW + 550 KW

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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SCHOOL HEATING + APARTMENT BUILDING HEATING, LILLEHAMMER, NORWAY

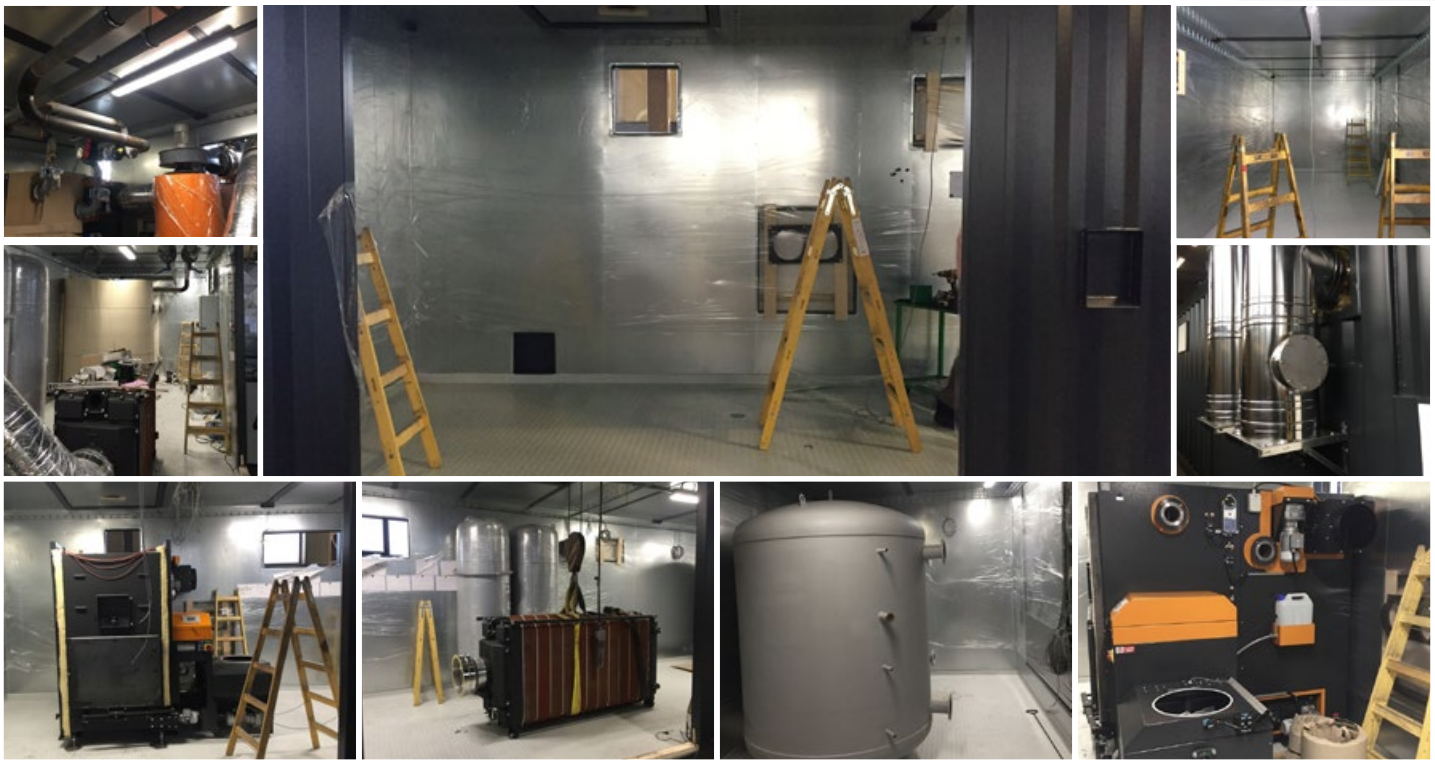


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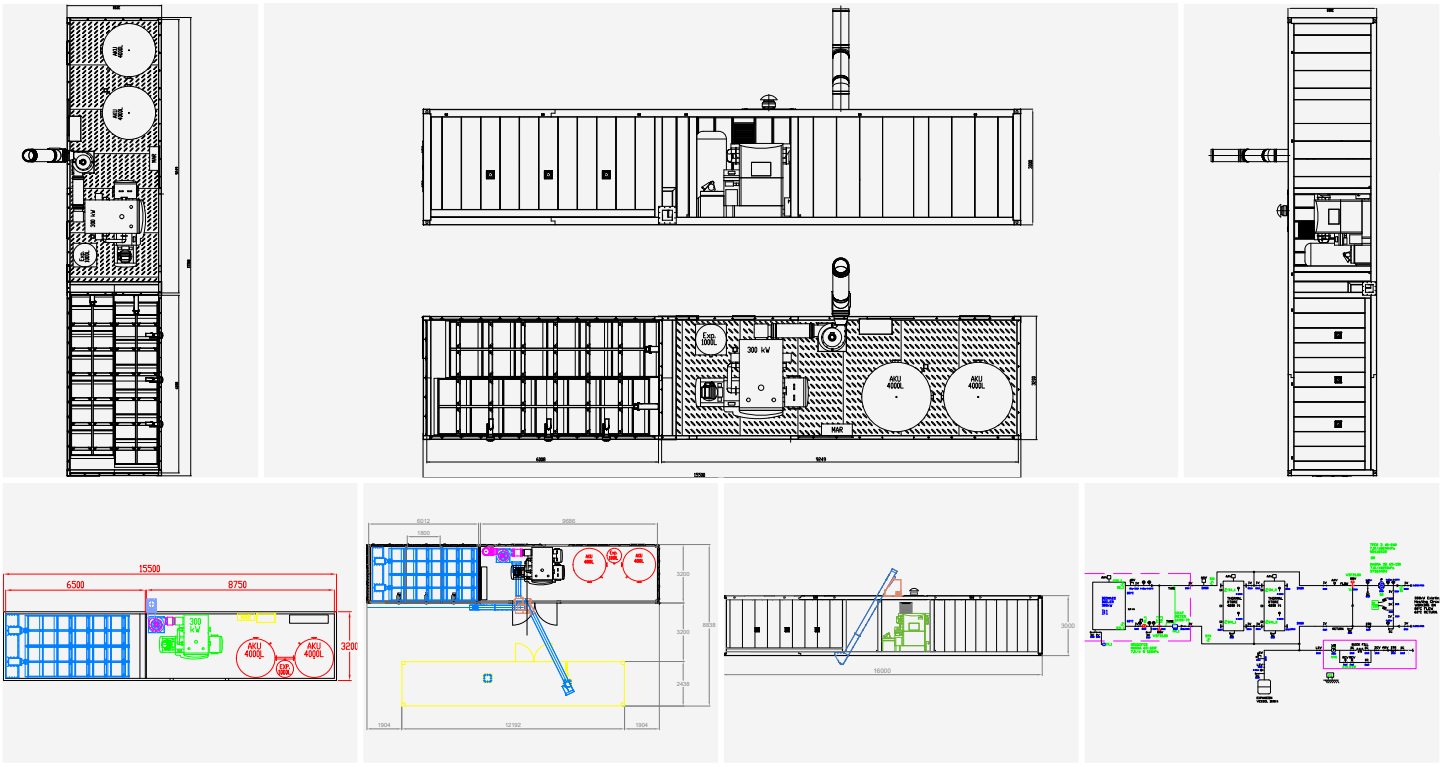
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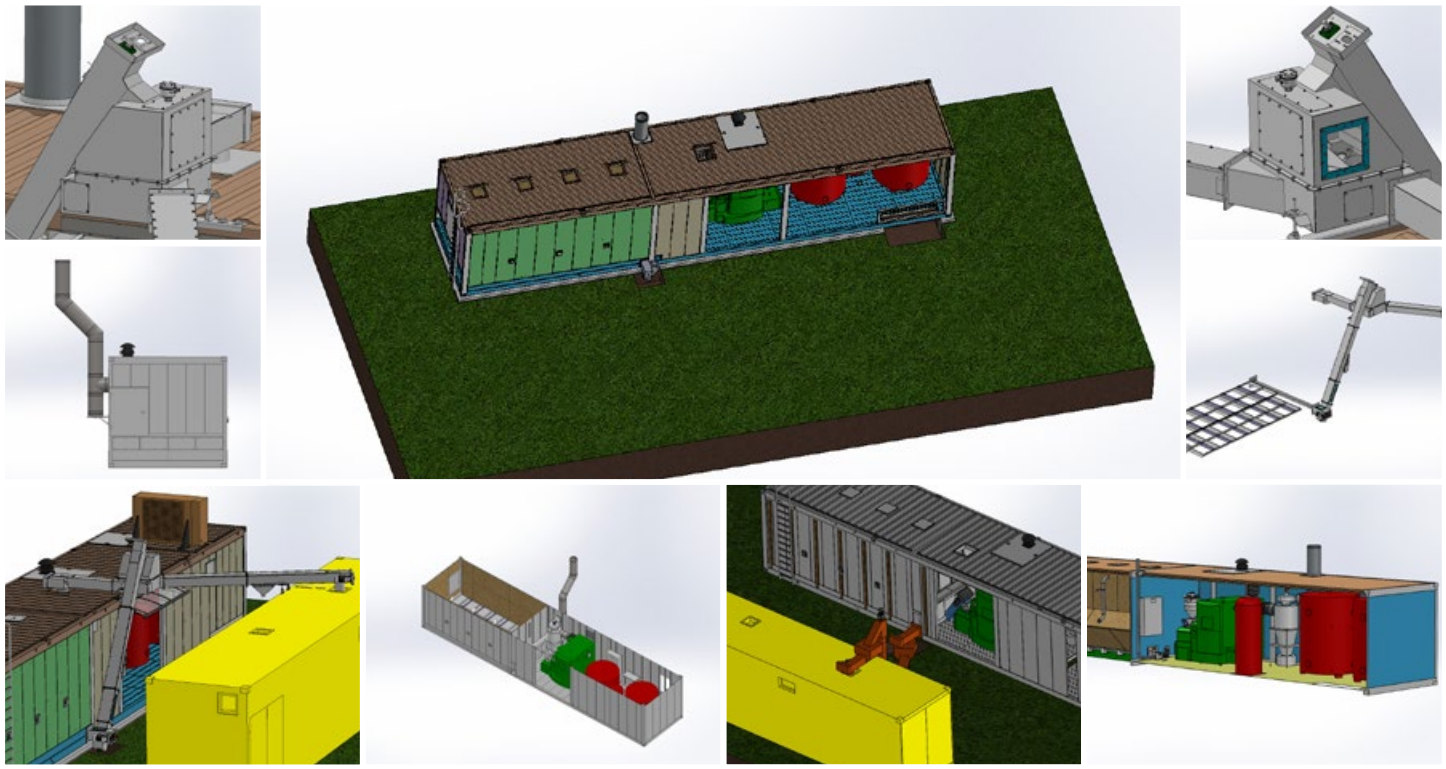
SMART SUPER MAGNUM CABIN 3,2 X 3 X 16 M, WITH 300 KW BIOMASS BOILER SMART, HORIZONTAL PELLETS SILO WITH MOVING FLOOR, 8000 L OF ACCUMULATION TANKS STORAGE, SET OF EXTERNAL CONVEYORS, CONNECTION WITH COGENERATION 100 KWE + 200 KW, ST. MARIE SCHOOL, NAMUR, BELGIUM



SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST I SMART SUPER MAGNUM CABIN

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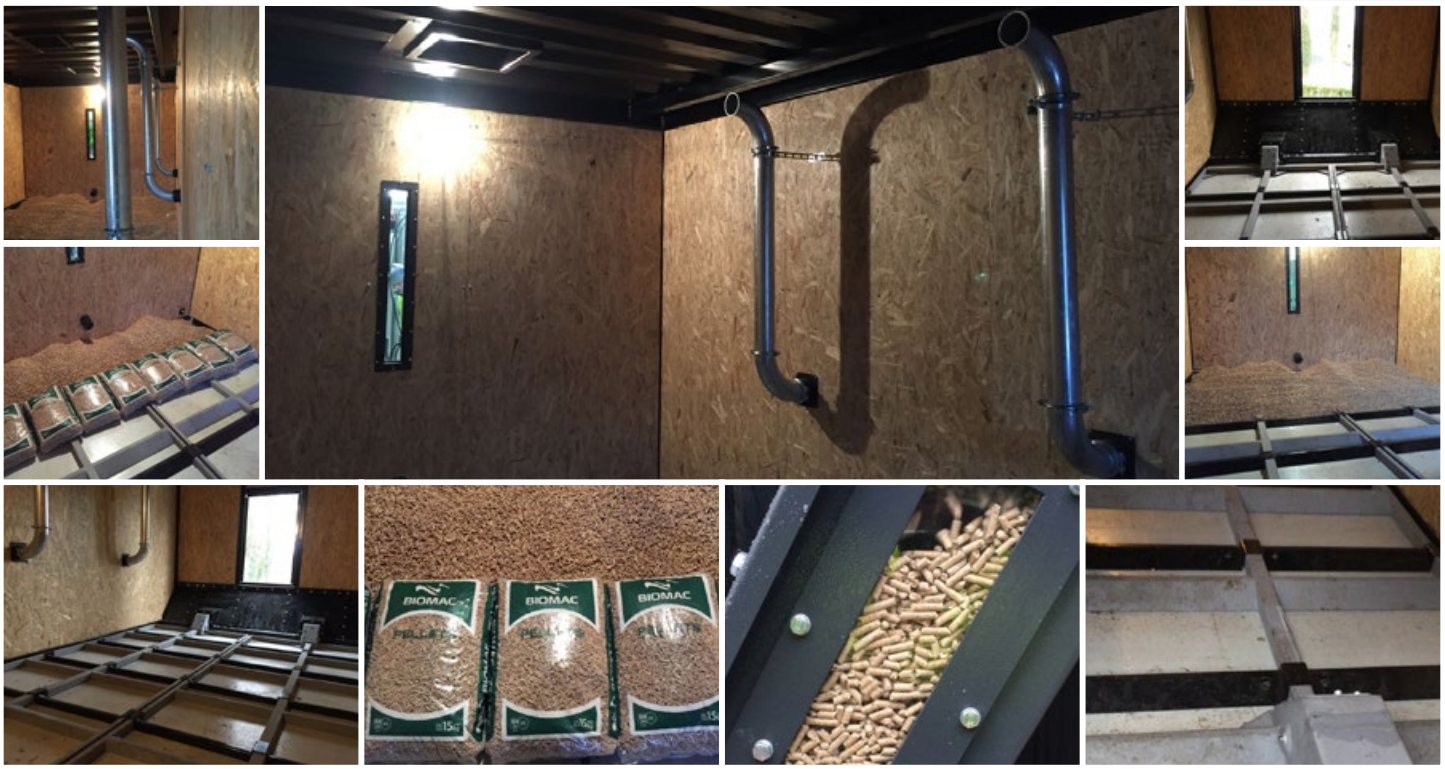
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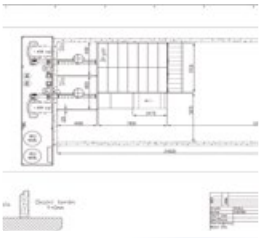
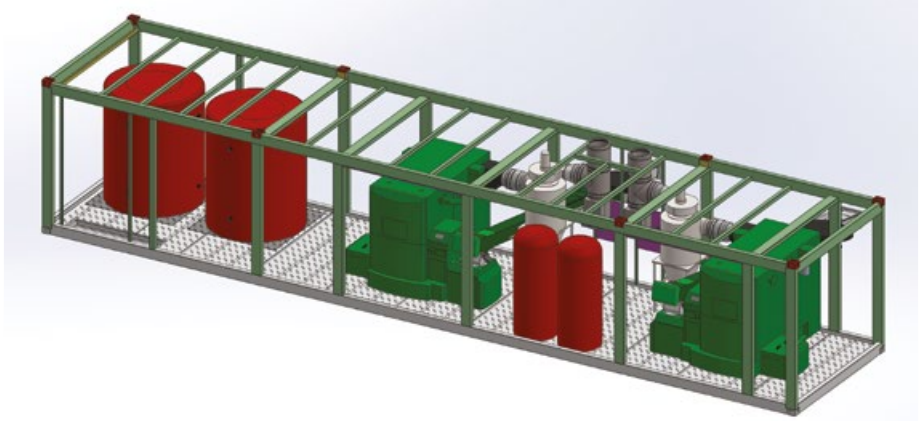
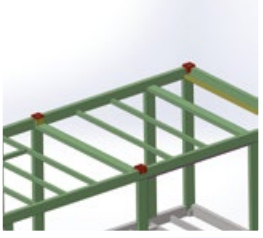
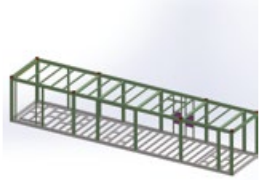


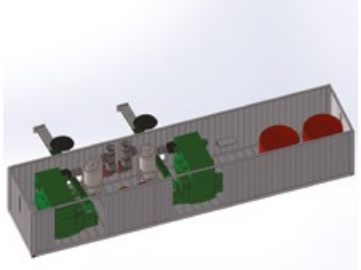


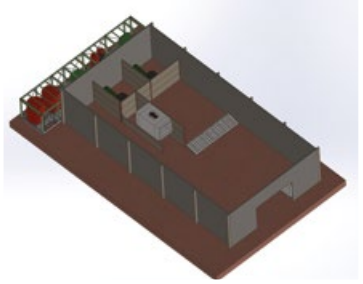
SMART HEATING TECHNOLOGY

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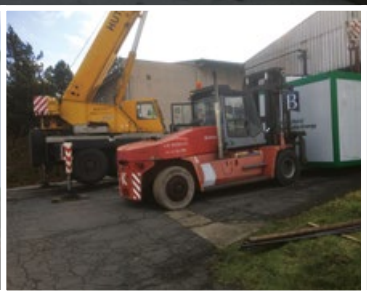
SMART REFERENCE LIST | SMART MAGNUM CABIN 2 X 500 KW WITH SMART WOODCHIP/GRAIN DRYER

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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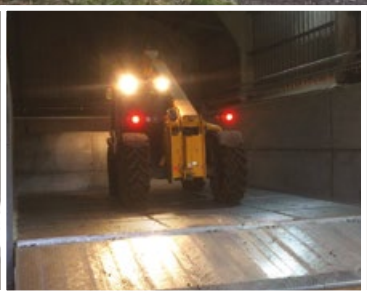
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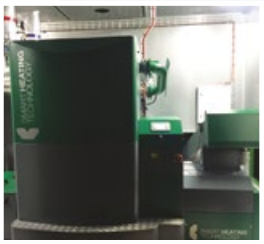
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SMART REFERENCE LIST | SMART MAGNUM CABIN 1 000 KW

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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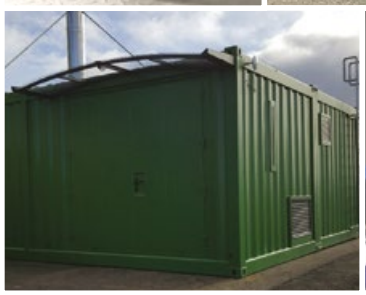
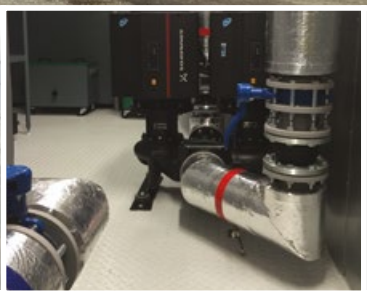
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SMART REFERENCE LIST | SMART MAGNUM CABIN 1 000 KW

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

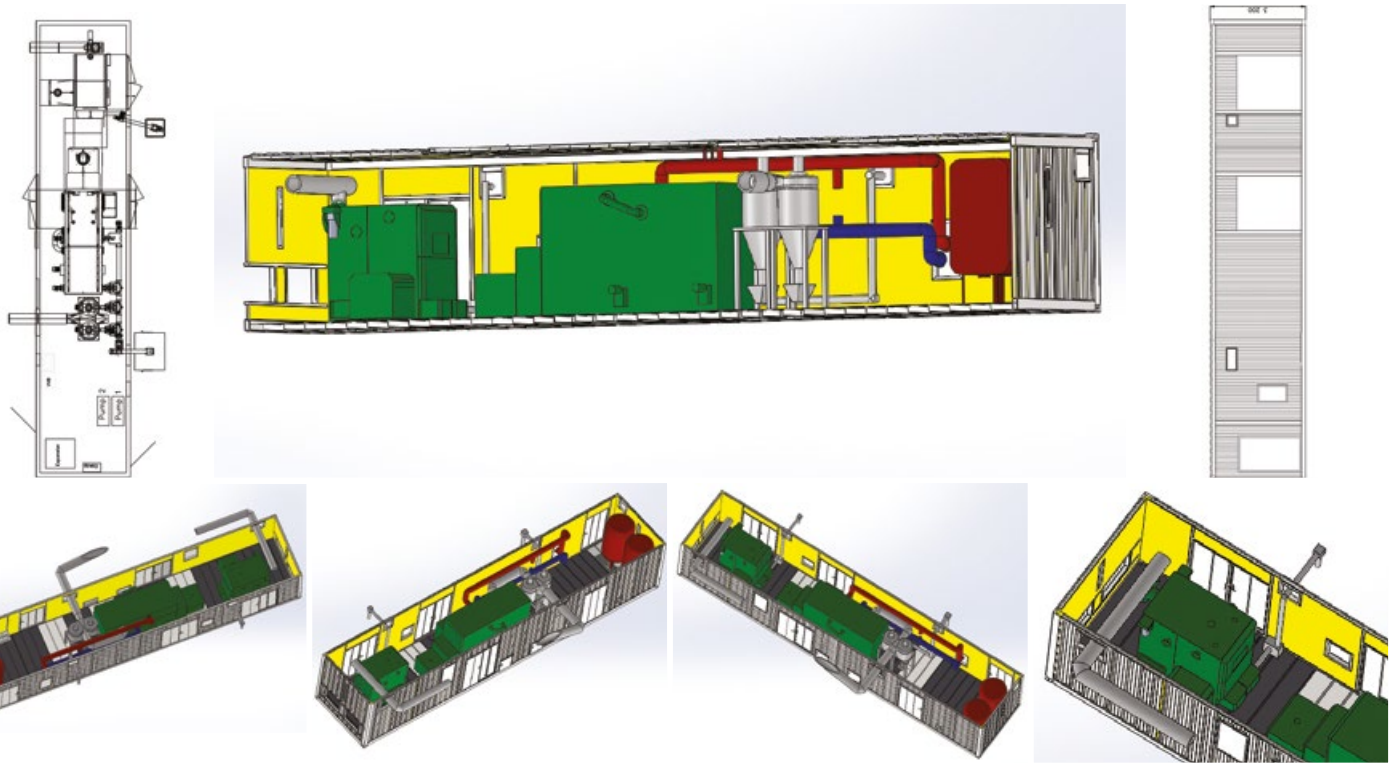




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SMART REFERENCE LIST | SMART MAGNUM CABIN 1 250 KW
WITH CONTAINERIZED MULTI–FUEL SILO WITH HYDRAULIC ROOF AND MOVING FLOOR
STORA SEGERSTAD COLLEGE, SWEDEN



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SMART HEATING TECHNOLOGY

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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SMART HEATING TECHNOLOGY

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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SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY
SMART REFERENCE LIST | SMART MAGNUM CABIN 2000 KW
WITH HORIZONTAL WOOD PELLETS SILO 100 M³



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South Korea







HOW WE WORK WITH OUR CUSTOMERS

Smart Heating Technology s.r.o.

1. Evaluating current situation/state
2. Processing technical solutions
3. Calculating expenses and returnability

We analyze properly

4. Producing precisely
5. Delivering and installing

We manufacture made-to-measure

6. Monitoring installation 24/7
7. Servicing and maintaining periodically
8. Supplying fuel

We look after our clients

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please contact our Sales Department:
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Partner: