SMART **HEATING** TECHNOLOGY

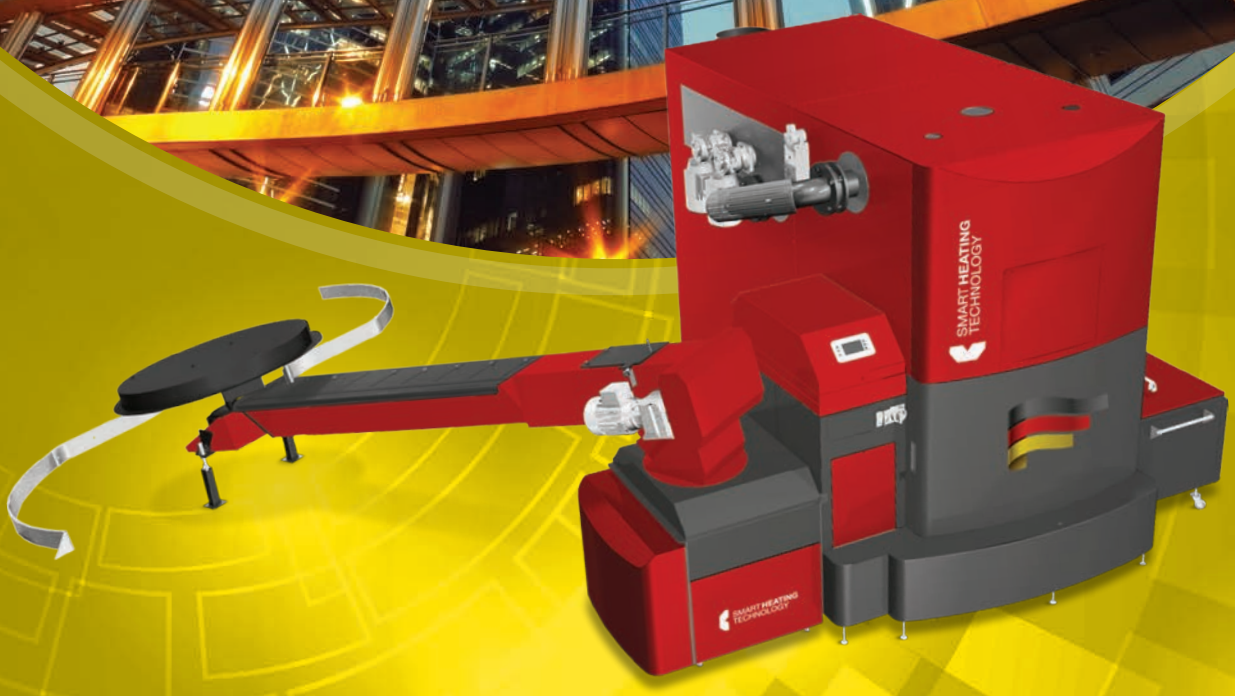
Germany

SMART HEATING TECHNOLOGY

MARKETING & REFERENCE BOOK 2019/2020

SMART **HEATING** TECHNOLOGY

Germany



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

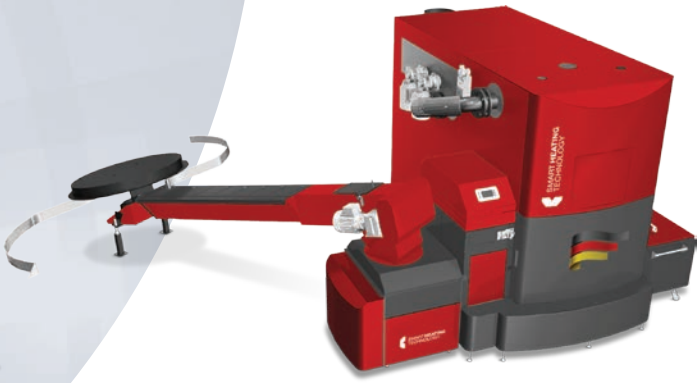
SMART 150–500–1500 kW

5 YEAR WARRANTY*

for a complete Technology Unit

*Complete 5 year warranty conditions on request

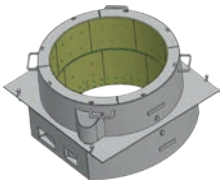
New Boiler Design ➔



* Subject to a Fuel Composition, and Testing!

New Design Features ➔

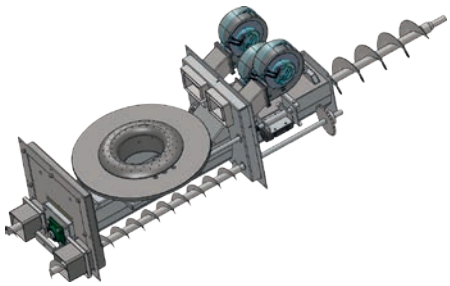
Ceramic Burner



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

Vibrating Burner plate



In association with:

SIEMENS

CE

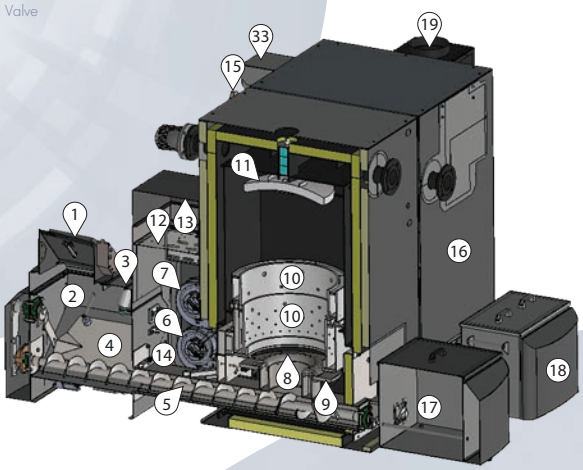
TÜV SÜD

ČSN-EN 303.5/2013

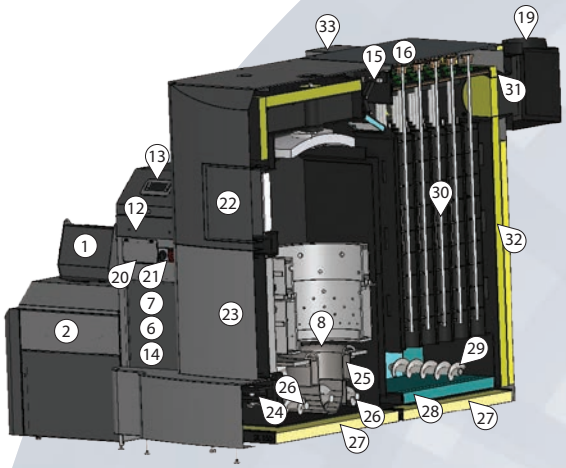
ISO 9001:2009

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

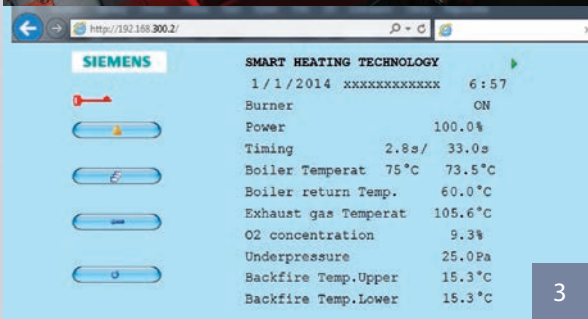


20. Fuses
21. Main Switch
22. Small Service Doors
23. Big Service Doors
24. Grating/Vibrating Mechanism
25. Primary Air Channel
26. Ash Screws
27. Bottom Insulation
28. Bottom Hi-Temp Exchanger Insulation
29. Exchanger De-ashing – Option
30. Turbulators
31. Lambda Sensor
32. Dual Boiler Insulation
33. 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 m³ – 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

Germany

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

DIMENSIONS AND WEIGHTS OF TECHNOLOGIES 150–250 kW

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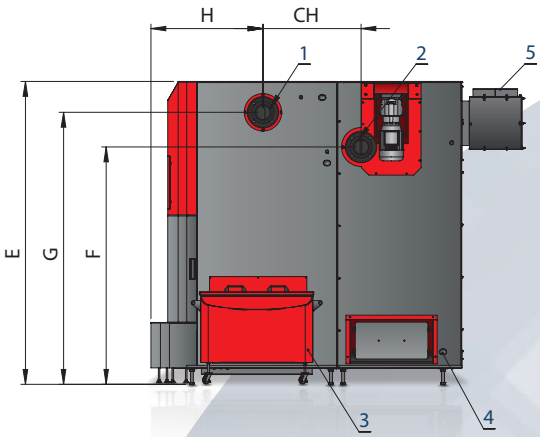
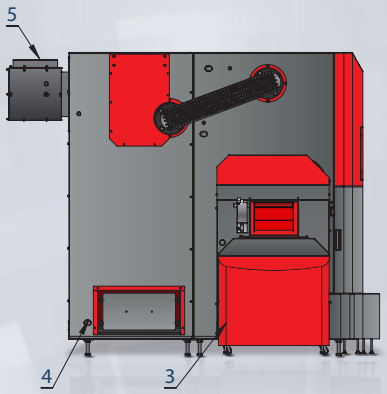
ČSN-EN 303.5/2013

ISO 9001:2009

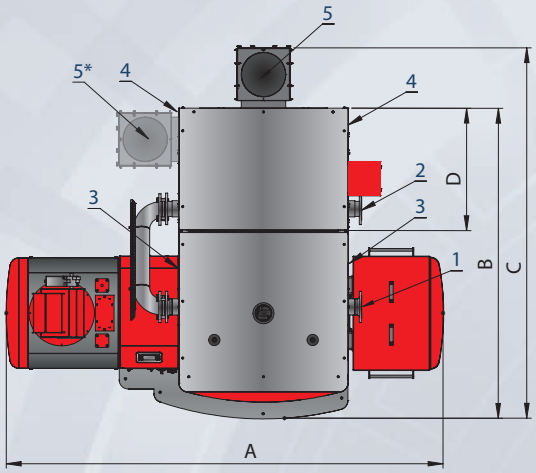
▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users





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



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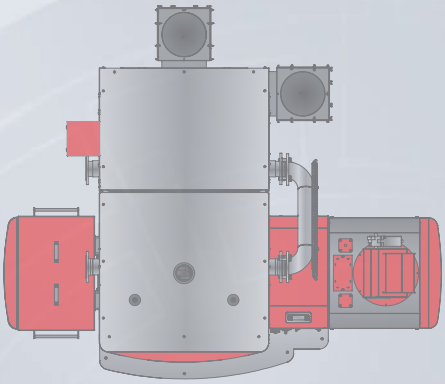

Right sided

	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

SMART HEATING TECHNOLOGY Germany

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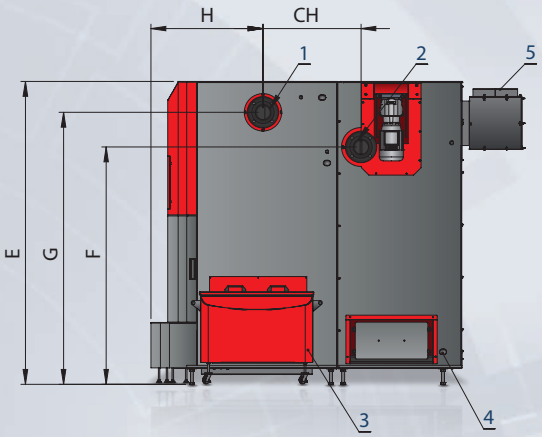
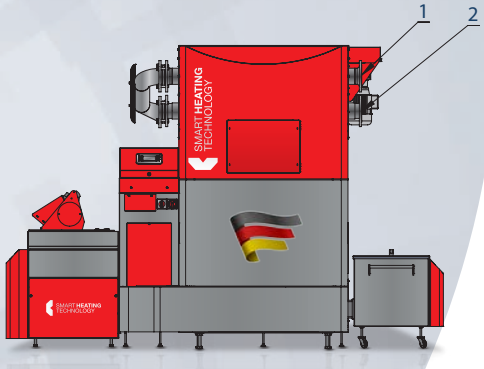
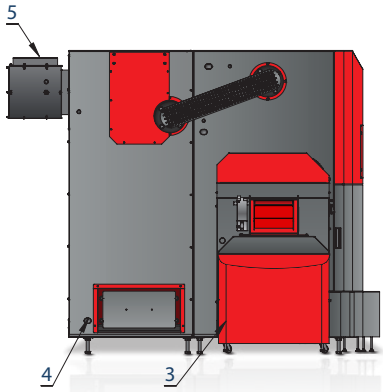
DIMENSIONS AND WEIGHTS OF TECHNOLOGIES 300–500 kW

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

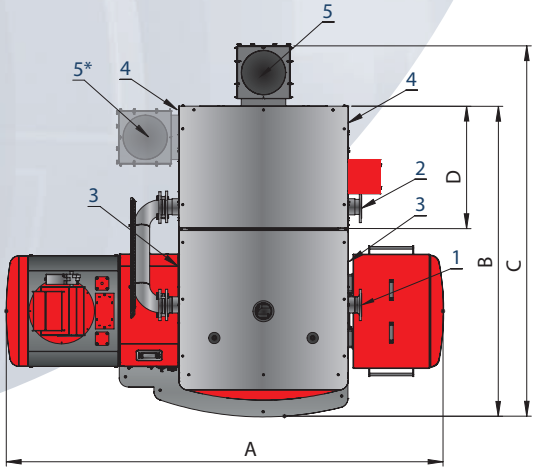






1. Water outlet DN100/PN6
2. Water inlet DN100/PN6
3. In/out water valve 3/4" of burning chamber
4. In/out water valve 3/4" of heat exchanger
5. Chimney outlet avg. 300 mm

* Option for limited spaces



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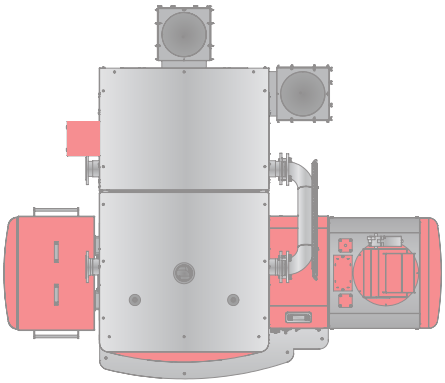

Right sided

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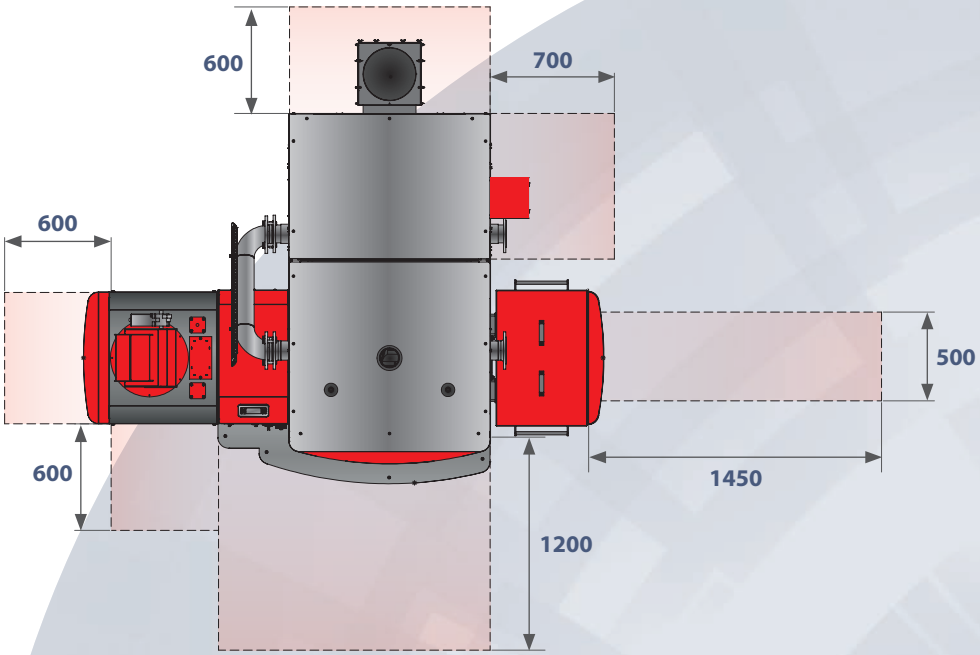
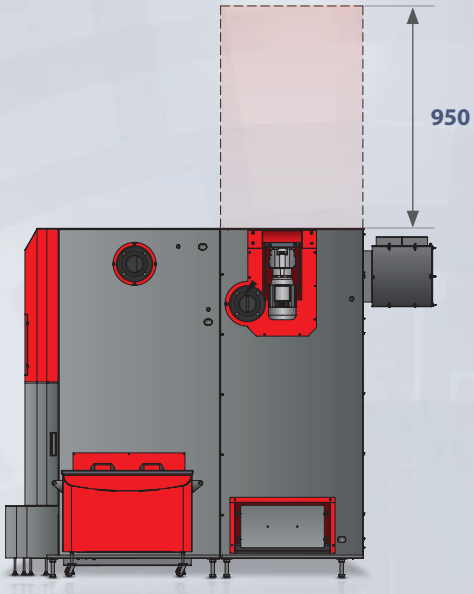
▪ Purity to Nature ▪ Savings to Clients ▪ Comfort to Users

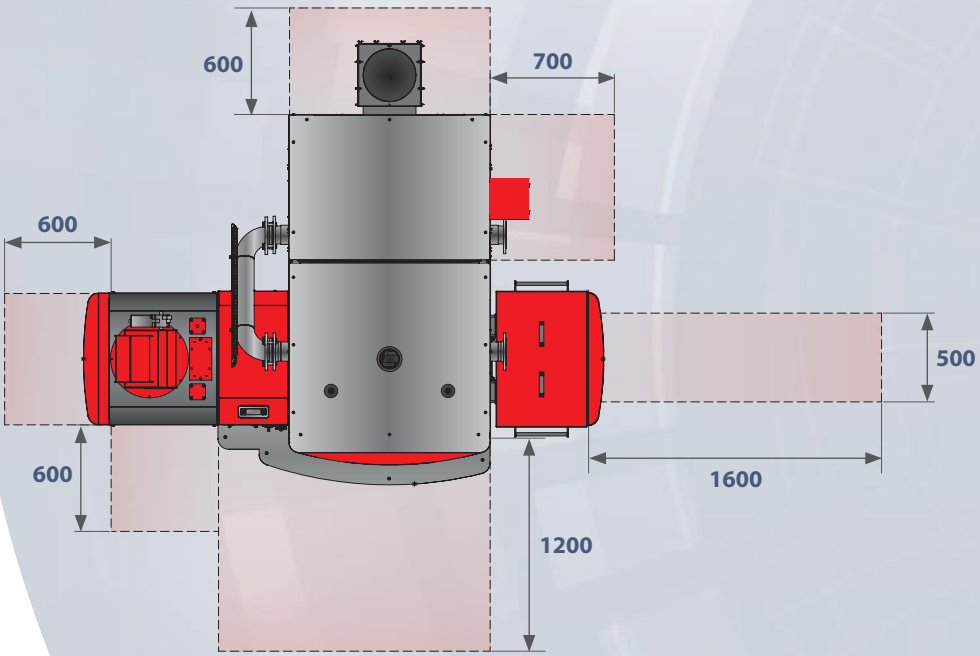
SERVICE ZONES OF TECHNOLOGIES 150–500 kW

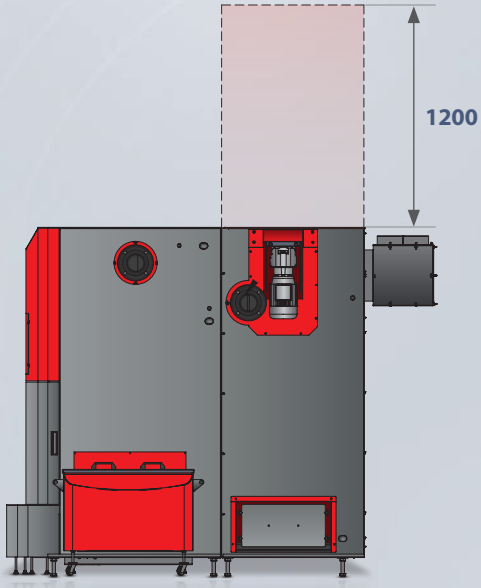
SMART 150–250 kW





SMART 300–500 kW





FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!

AUTOMATIC BIOMASS BOILERS

SMART 150–500 kW

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TECHNICAL SPECIFICATIONS 150–500 kW

▪ 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 Germany

ČSN-EN 303.5/2013

ISO 9001:2009

CERTIFIED OPERATING VALUES 150–200 kW

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

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 Germany

ČSN-EN 303.5/2013

ISO 9001:2009

CERTIFIED OPERATING VALUES 250–350 kW

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

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 Germany

ČSN-EN 303.5/2013

ISO 9001:2009

CERTIFIED OPERATING VALUES 400–500 kW

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

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

FULLY AUTOMATIC, ECOLOGIC BOILERS WITH EXCELLENT FEATURES!

SMART **HEATING** TECHNOLOGY
Germany

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
4. Producing precisely
5. Delivering and installing
6. Monitoring installation 24/7
7. Servicing and maintaining periodically
8. Supplying fuel

We analyze properly

We manufacture made-to-measure

We look after our clients

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
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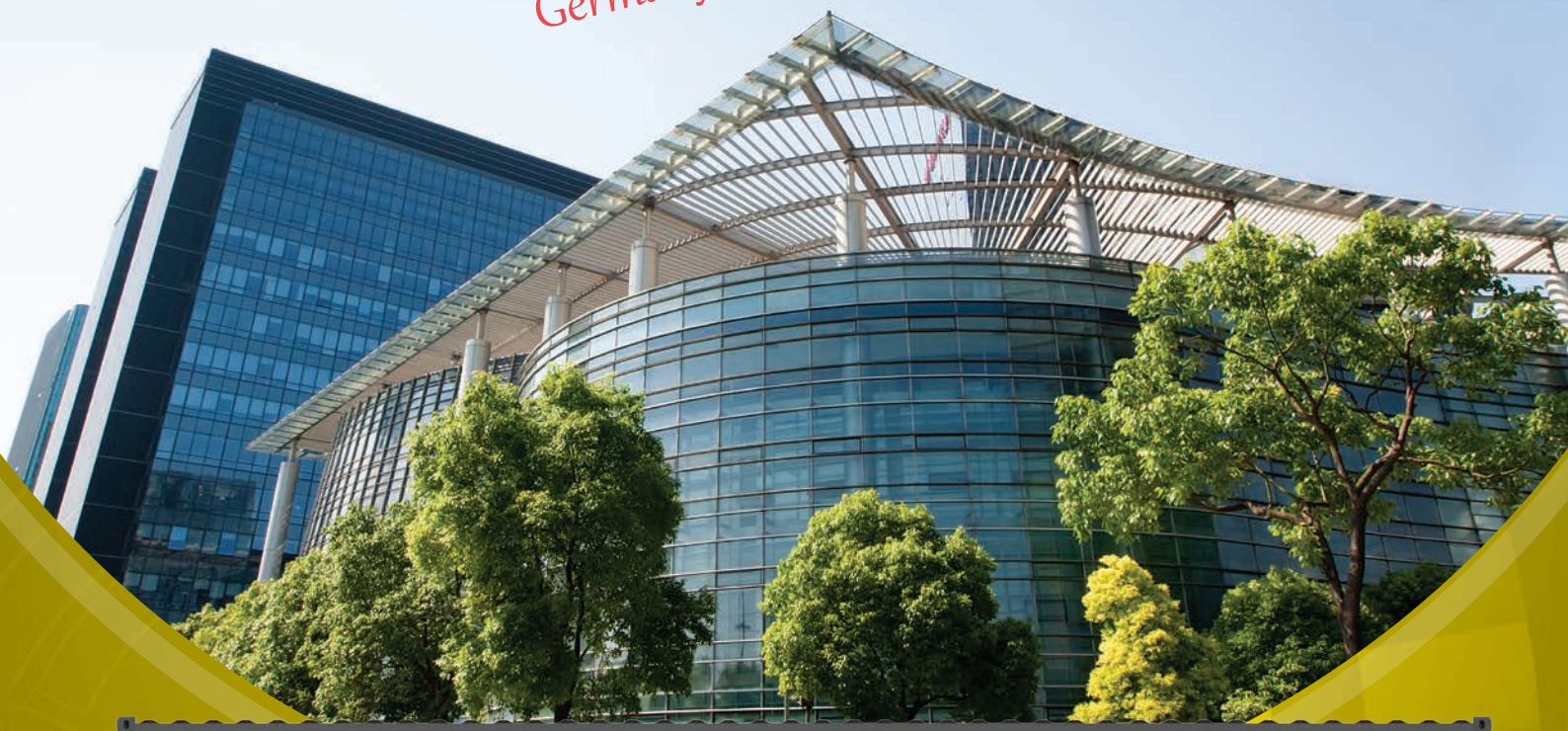
Partner:

SMART **HEATING** TECHNOLOGY
Germany



MOBILE BIOMASS BOILER HOUSE

SMART CABIN 150–500–1500 kW

▪ Biomass boiler technology Smart 150–500 kW ▪ Oil/gas back-up boiler as optional extras ▪ Complete wood chips & wood pellets silo ▪ Complete flue system inside the container ▪ Complete hydraulic installation inside the container ▪ Measuring and regulation system ▪ 96 % burning efficiency ▪ Flexible Technical solutions ▪ Flexible external 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 options:

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

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*

*If an oil or LPG back-up boiler is required, the Smart cabin can be extended by 1.2m, with an increase in weight of 1.5 tons.

In association with:

SIEMENS

GRUNDFOS

Hydraulics & Chimney & Silo

AUTOMATIC BIOMASS BOILERS SMART 150–500–1500 kW

SMART HEATING TECHNOLOGY
Germany

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

SMART **HEATING**
TECHNOLOGY
Germany

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*

for a complete Technology Unit

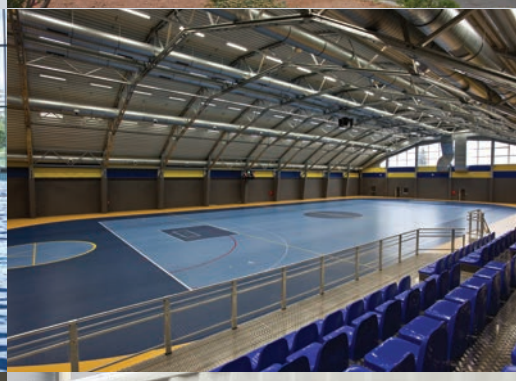
*Complete 5 year warranty conditions on request

ČSN-EN 303.5/2013
ISO 9001:2009

Efficiency 96 %
Mobile phone control
Internet control

Smart Industrial Heating:

- Apartment Buildings
- Shopping Centres
- Manufacturing Premises, Industrial Units and Warehousing
- Hotels,Leisure Centres, Spas/Health Clubs and Swimming Pools
- Sport Arenas
- Public Sector Buildings
- Schools, Hospitals



SMART **HEATING**
TECHNOLOGY
Germany

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*

for a complete Technology Unit

*Complete 5 year warranty conditions on request

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

SMART **HEATING** TECHNOLOGY
Germany

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
4. Producing precisely
5. Delivering and installing
6. Monitoring installation 24/7
7. Servicing and maintaining periodically
8. Supplying fuel

We analyze properly

We manufacture made-to-measure

We look after our clients

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

Partner:

SMART **HEATING** TECHNOLOGY
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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

5 YEAR WARRANTY*

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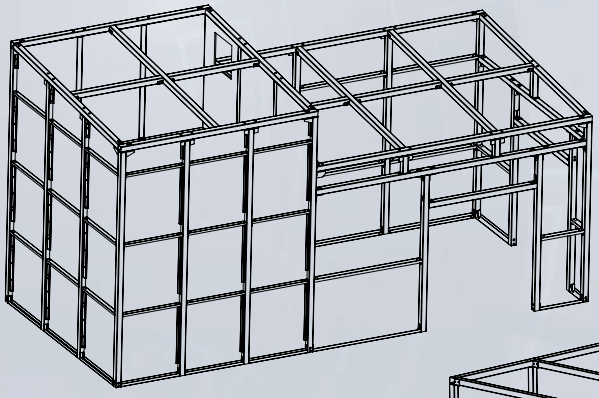
Boiler House Design

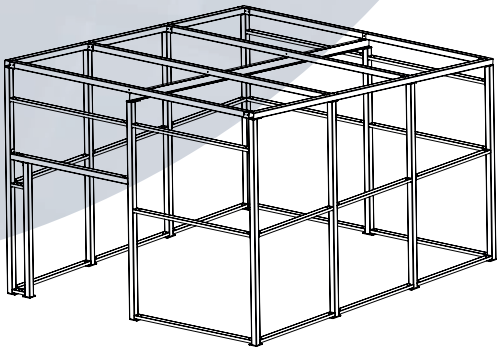
Boiler House Design with Silo

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 ➔

AUTOMATIC BIOMASS BOILERS SMART 150–500–1500 kW

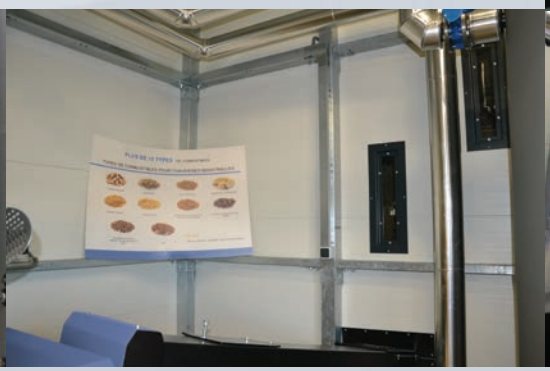
SMART HEATING TECHNOLOGY
Germany

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 REFERENCE BOOK 2019/2020

SMART HEATING TECHNOLOGY

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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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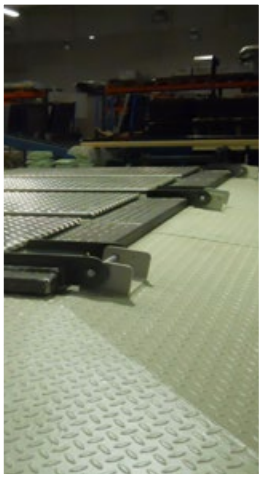
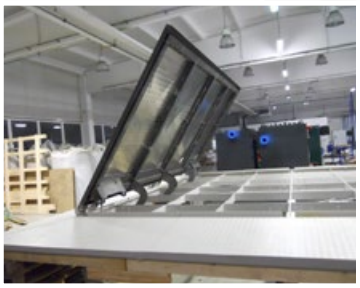
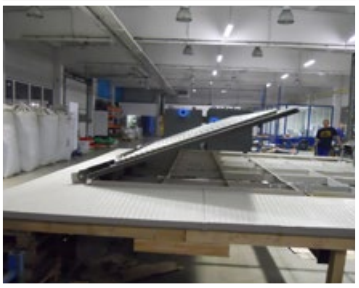
SWEDEN

IRELAND







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SMART REFERENCE LIST | SMART HYDRAULIC HATCH
IRELAND

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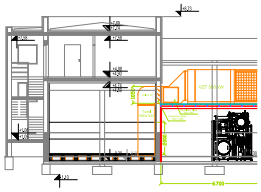

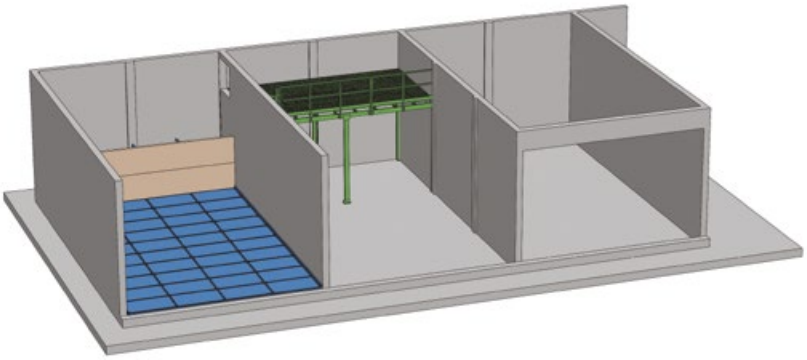

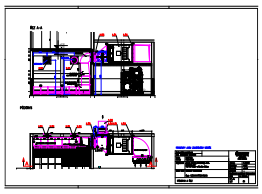

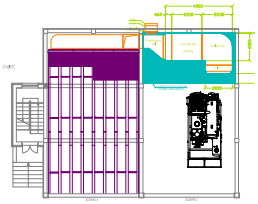

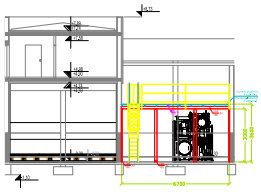

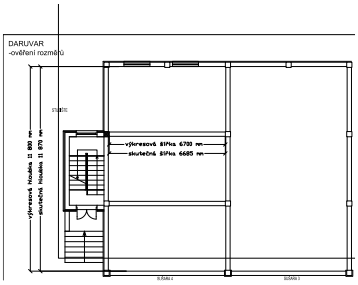

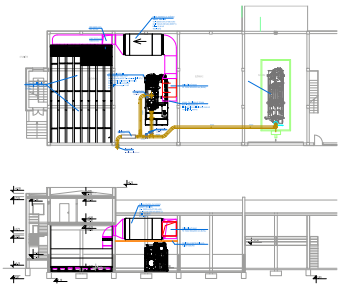

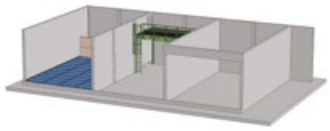

SMART **HEATING** TECHNOLOGY

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SMART REFERENCE LIST | SMART WOOD CHIPS DRYER 560 KW

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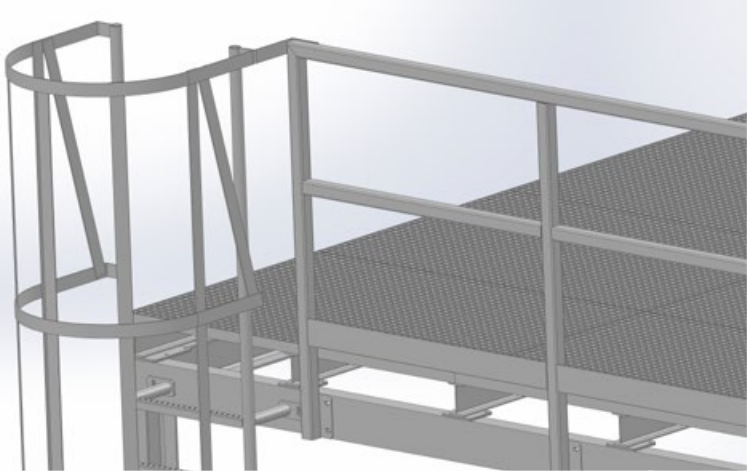

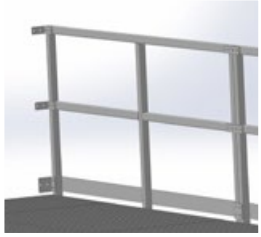

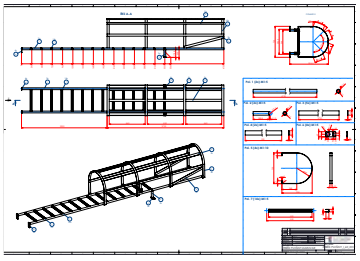

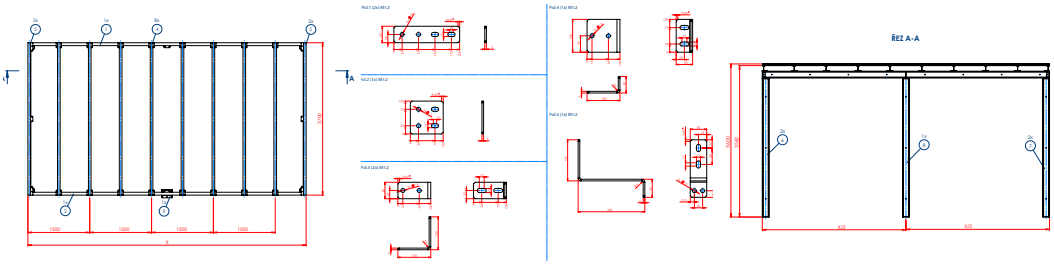

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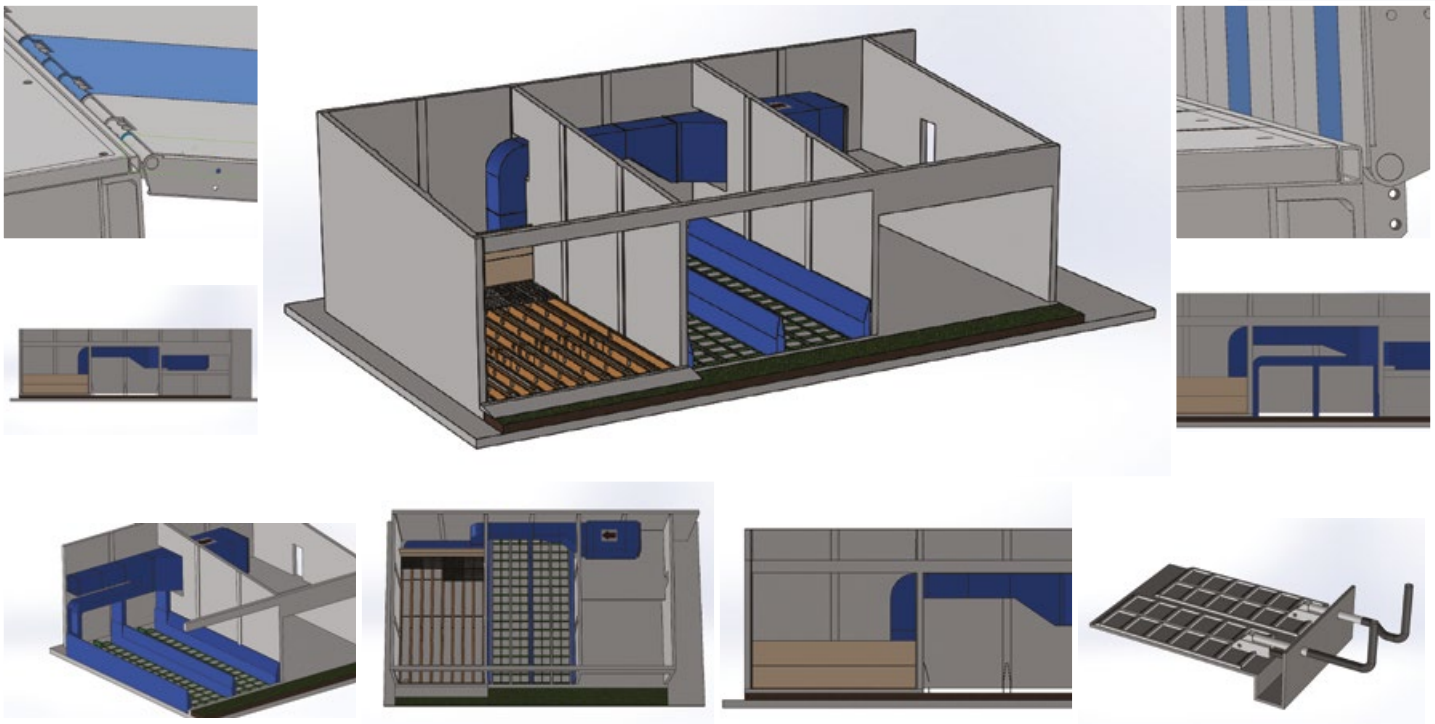

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VIROVITICA, CROATIA

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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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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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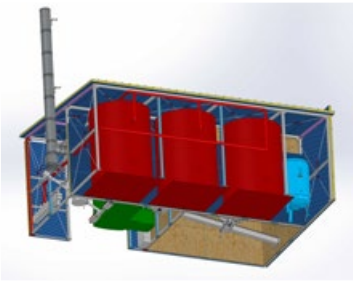
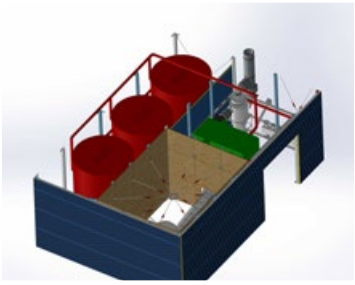
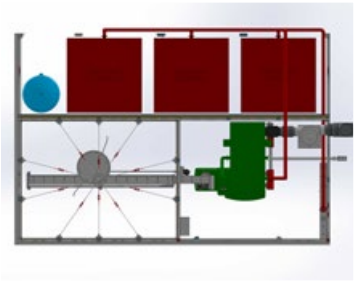

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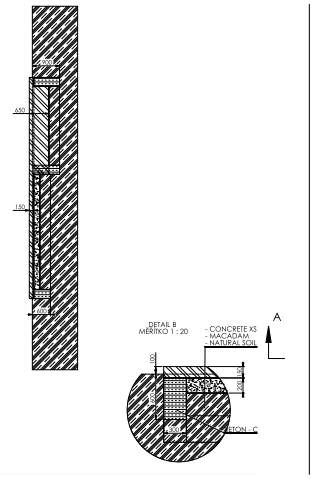
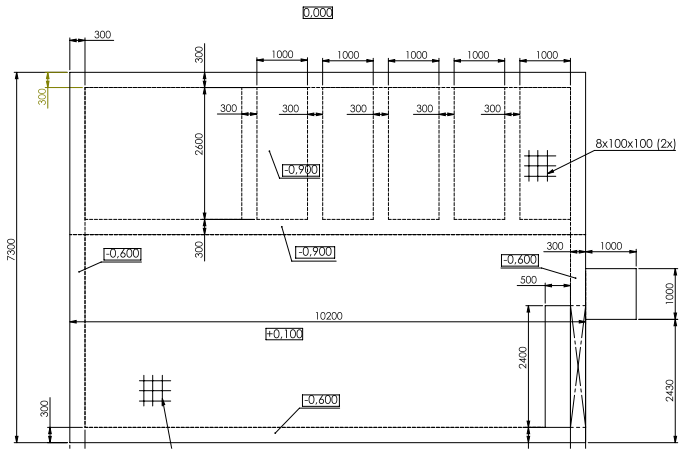

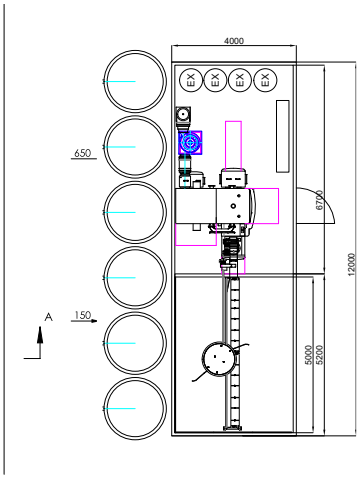

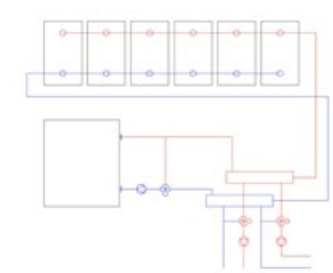
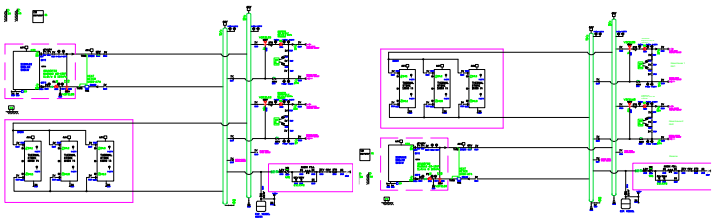
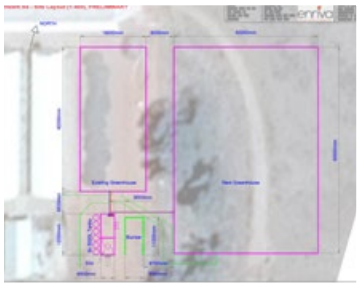

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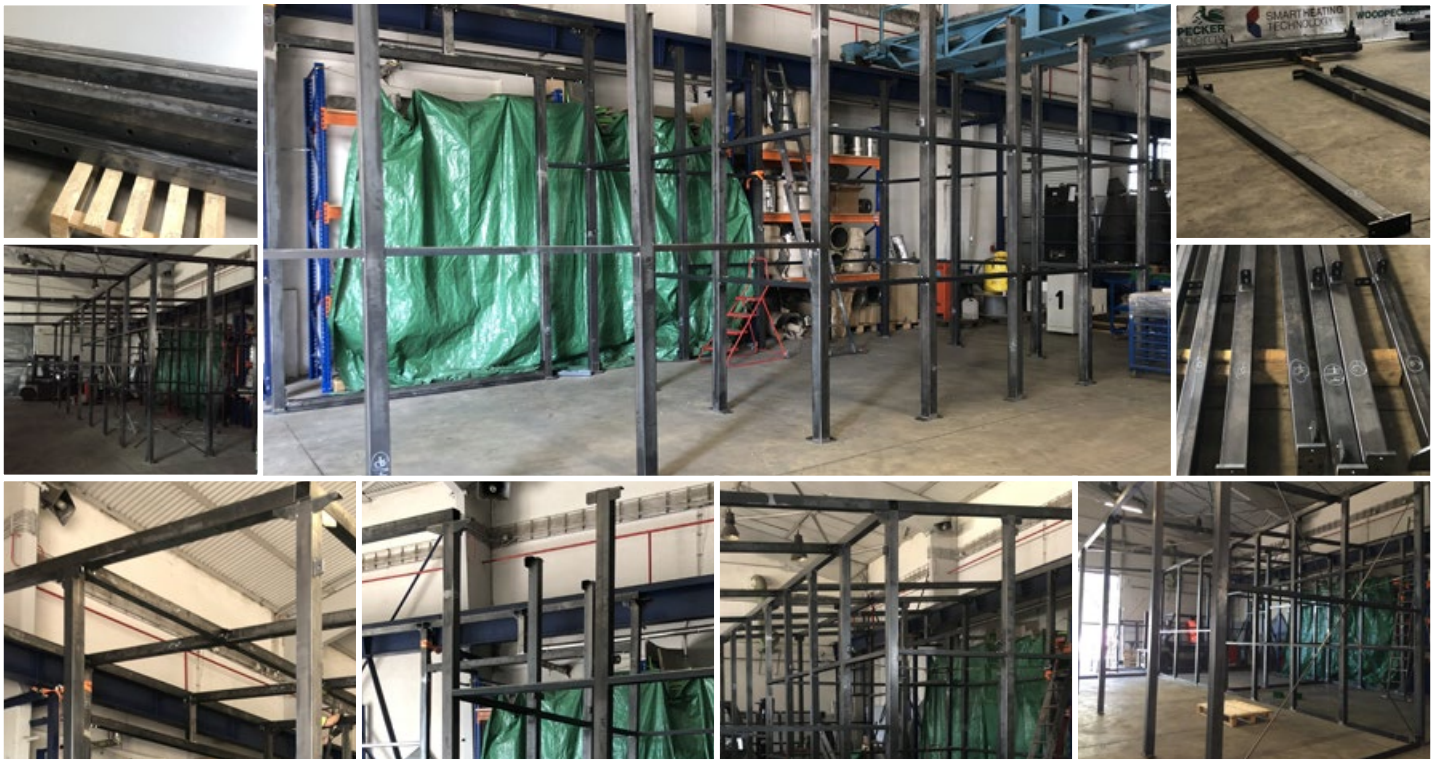

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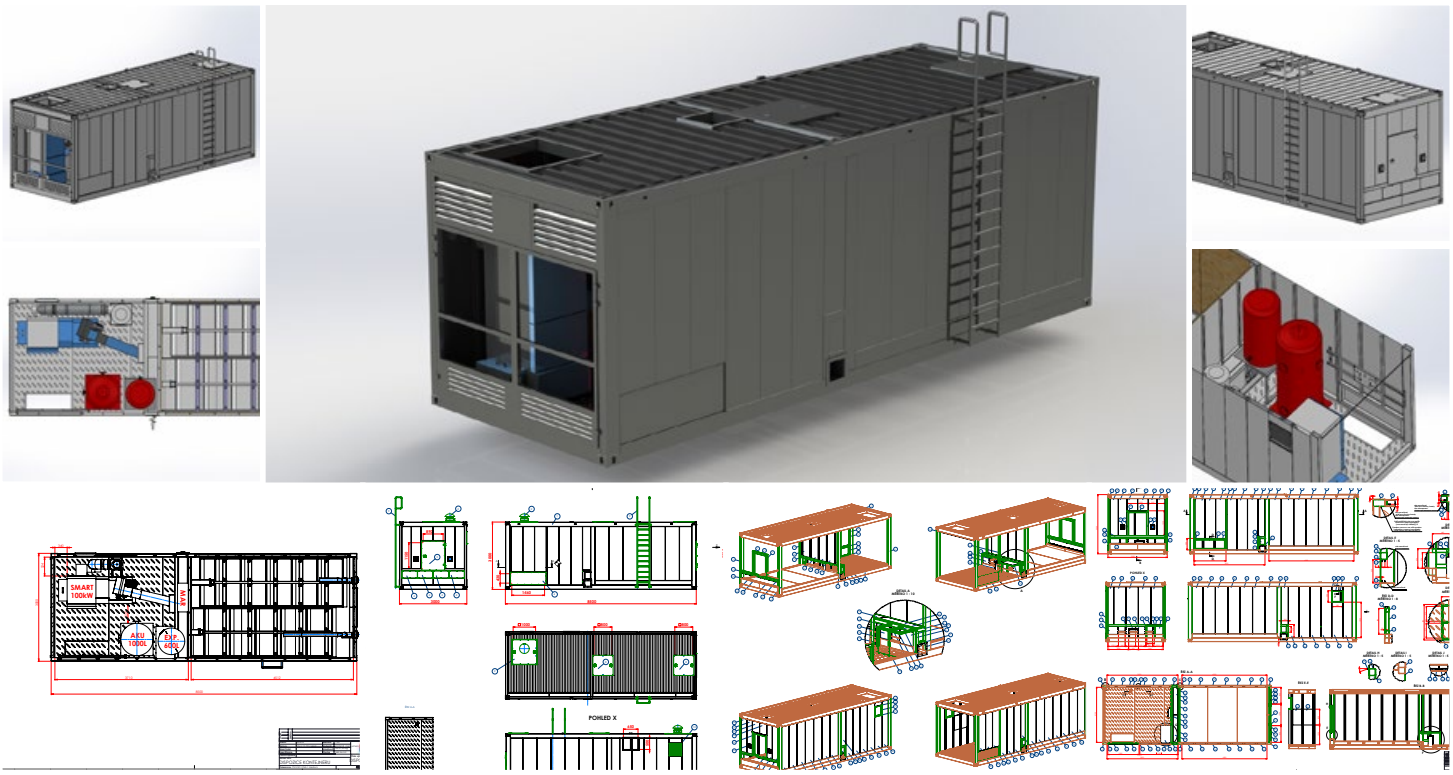
SMART HEATING TECHNOLOGY

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



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

SMART HEATING TECHNOLOGY

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SMART **HEATING** TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART MICRO CABIN 100 KW

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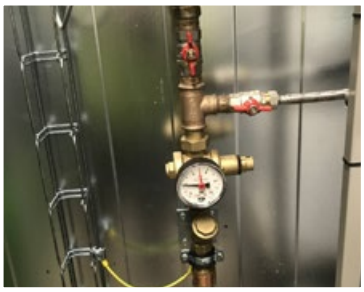
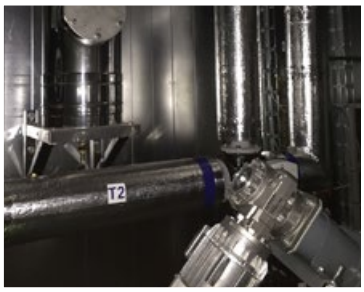

SMART **HEATING** TECHNOLOGY

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SMART REFERENCE LIST | SMART MICRO CABIN 100 KW

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SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART MICRO CABIN 100 KW

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SMART HEATING TECHNOLOGY

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 HEATING TECHNOLOGY

SMART REFERENCE LIST I SMART TOTAL CABIN 200 KW

SILOS ZA PELET, SA PNEUMATSKIM CEVIMA ZA SNABDEVANJE I VISOKOFREKVENTNIM SONAROM
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TOTAL BENZINSKA STANICA, LICHTENBUSCH, RAEREN, BELGIJA

SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST I 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 HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART CABIN 200 KW

MULTI–FUEL SILO DESIGN WITH WOOD CHIPS/PELLETS FILLING OUTLETS
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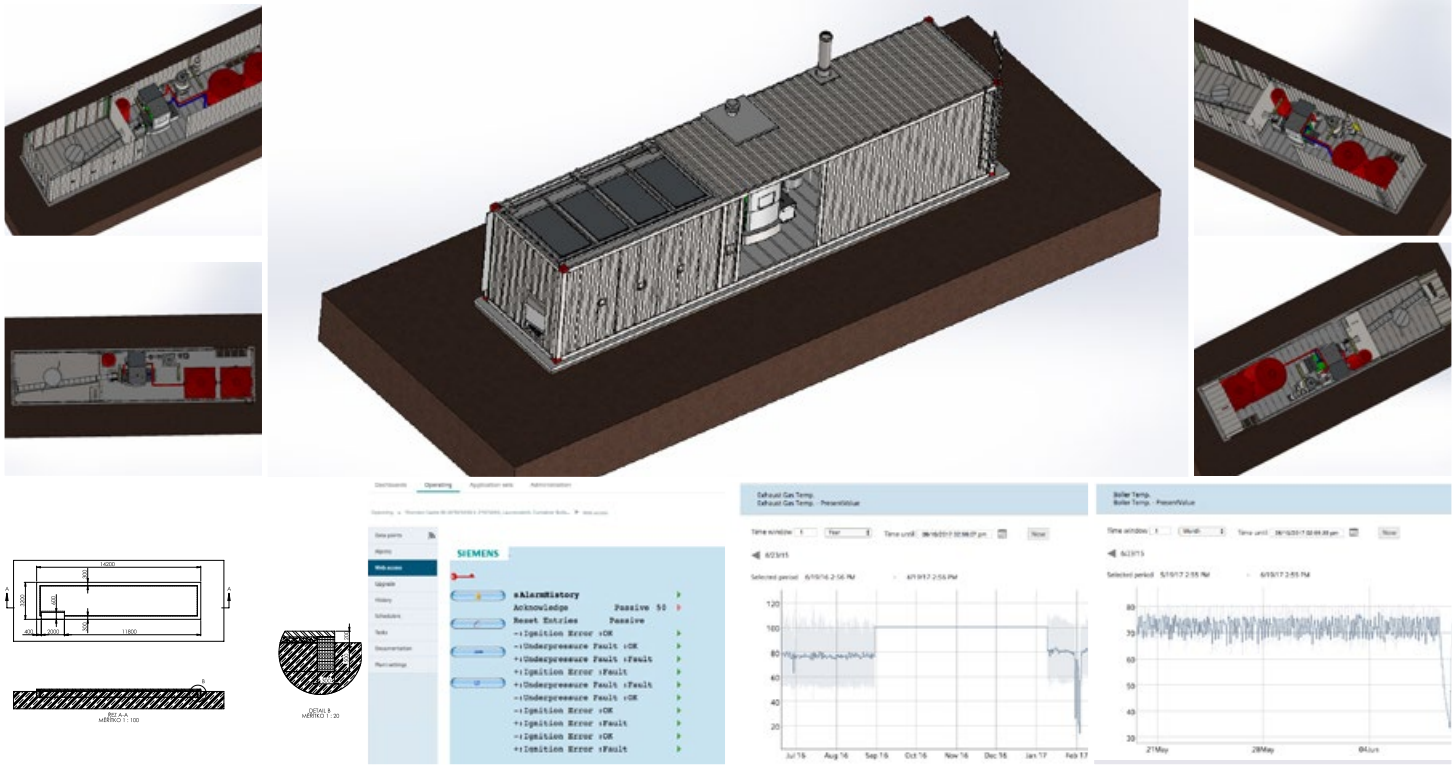
SMART REFERENCE LIST | SMART MAGNUM CABIN 200 KW

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



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SMART REFERENCE LIST | SMART CABIN 200 KW

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

SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | SMART CABIN 200 KW

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

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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

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | SMART CABIN 220 KW

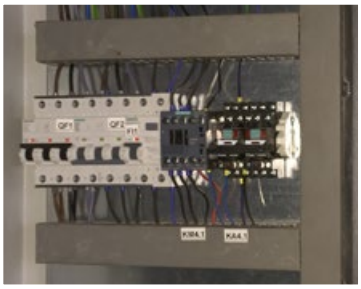
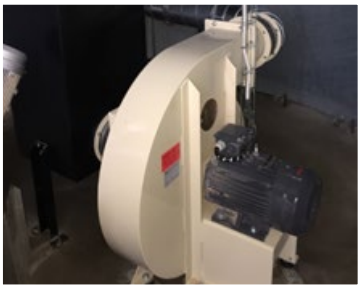
MULTI-FUEL SILO DESIGN WITH HYDRAULIC ROOF
1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION
CS TRACTOR PLANT, KIRRIEMUIR, SCOTLAND

SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | 2 X SMART MICRO CABIN 250 KW

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

SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

SMART REFERENCE LIST | 2 X SMART MICRO CABIN 250 KW

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

SMART HEATING TECHNOLOGY

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SMART REFERENCE LIST | 2 X SMART MICRO CABIN 250 KW

FURNITURE WASTE SILO SOLUTION WITH MANUAL ROOF, 1 HEATING CIRCUIT
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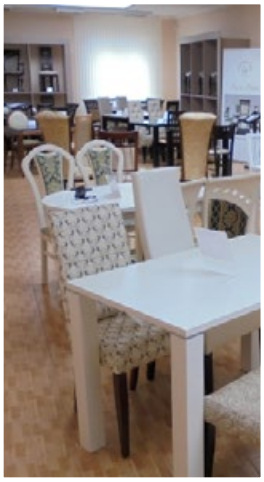

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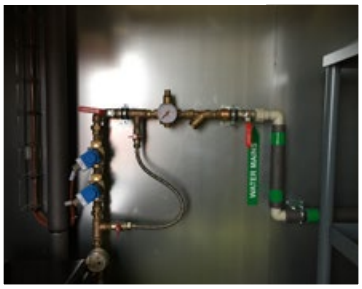
FURNITURE WASTE SILO SOLUTION WITH MANUAL ROOF, 1 HEATING CIRCUIT WITH COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION
GOLDOPTIMA FURNITURE FACTORY, GRODNO, BELARUS

SMART HEATING TECHNOLOGY

SMART 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

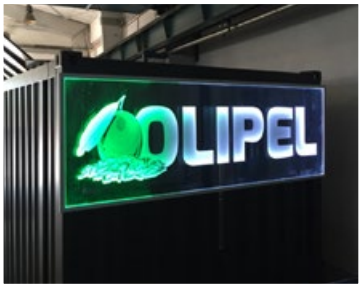


SMART **HEATING** TECHNOLOGY

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



SMART **HEATING** TECHNOLOGY

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

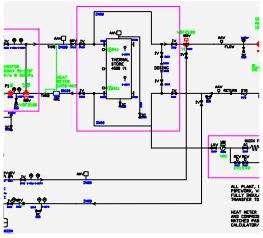
SMART HEATING TECHNOLOGY

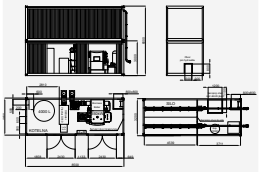
SMART HEATING TECHNOLOGY

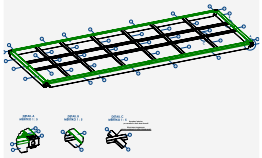
SMART REFERENCE LIST | SMART DOUBLE–DECKER CABIN

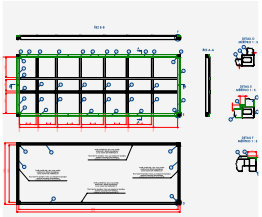
SMART MICRO PANELS CABIN SET – 2 X 8,5 M X 3,2 M X 3 M, 350 KW BIOMASS BOILER + 300 KW OIL BACK-UP BOILER + 4000 L ACCUMULATION TANK + 1000 L EXPANSION VESSEL + 1 EXPORT CIRCUIT + MAR UNIT + ICLOUD MONITORING, ONLY PELLETS SILO WITH CAPACITY 15 TONS + PNEUMATIC FILLING PIPES + LEVEL SENSORS, 1000 L DOUBLE-WALL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

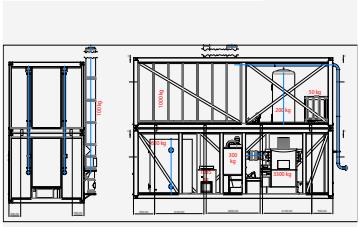
NURSING HOUSE, PONFERRADA, SPAIN

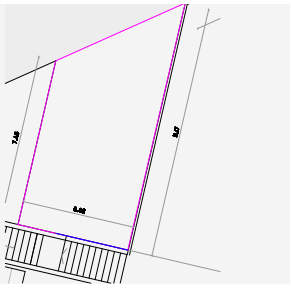


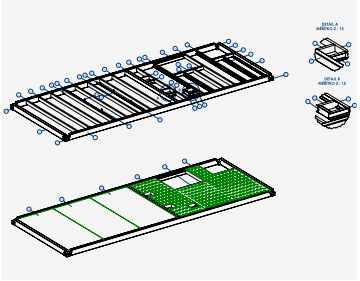


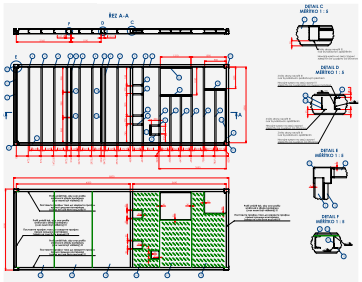












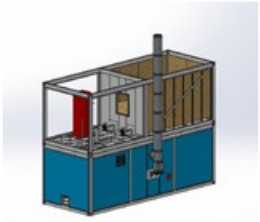
SMART HEATING TECHNOLOGY

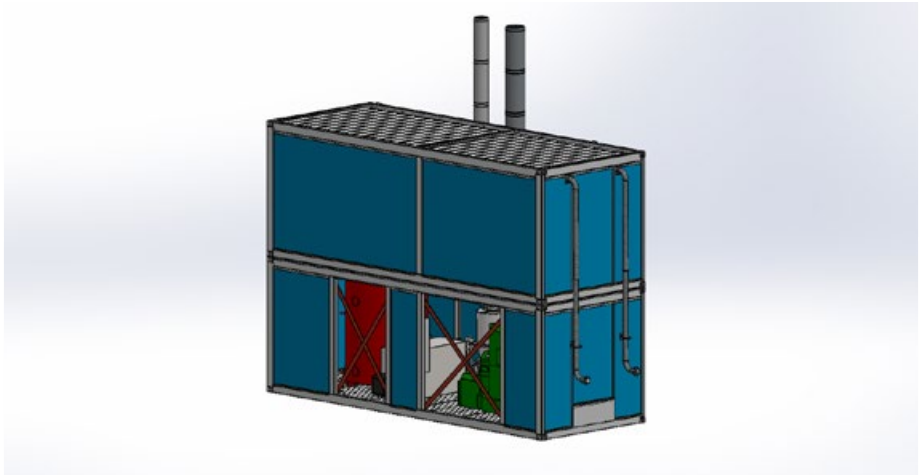
SMART HEATING TECHNOLOGY

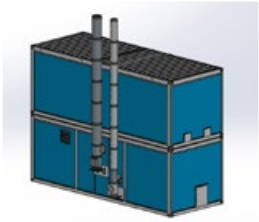
SMART REFERENCE LIST | SMART DOUBLE–DECKER CABIN

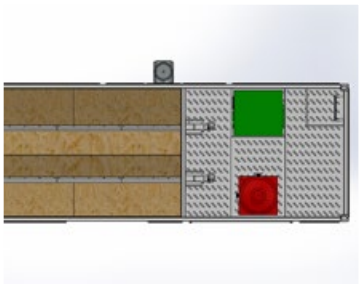
SMART MICRO PANELS CABIN SET – 2 X 8,5 M X 3,2 M X 3 M, 350 KW BIOMASS BOILER + 300 KW OIL BACK-UP BOILER + 4000 L ACCUMULATION TANK + 1000 L EXPANSION VESSEL + 1 EXPORT CIRCUIT + MAR UNIT + ICLOUD MONITORING, ONLY PELLETS SILO WITH CAPACITY 15 TONS + PNEUMATIC FILLING PIPES + LEVEL SENSORS, 1000 L DOUBLE-WALL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

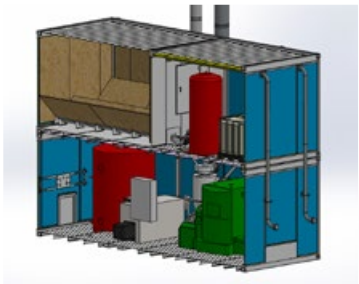
NURSING HOUSE, PONFERRADA, SPAIN

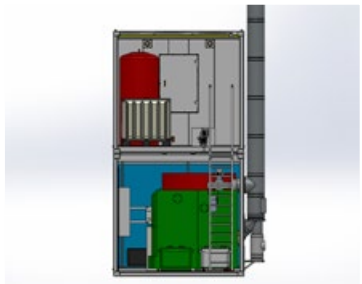


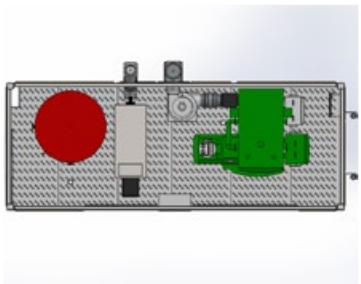












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NURSING HOUSE, PONFERRADA, SPAIN

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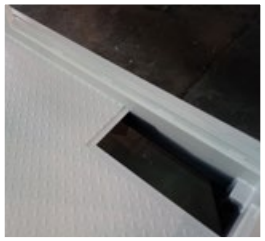
NURSING HOUSE, PONFERRADA, SPAIN



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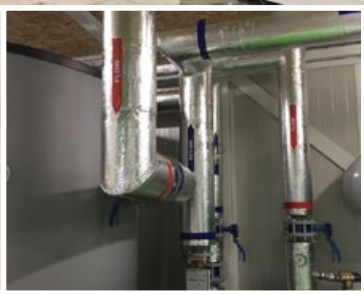

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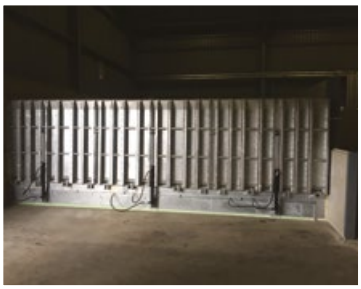
SMART REFERENCE LIST | SMART MICRO CABIN 500 KW WITH SMART WOODCHIP/GRAIN DRYER

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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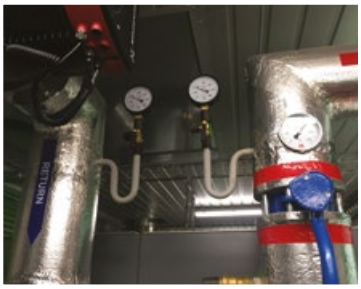

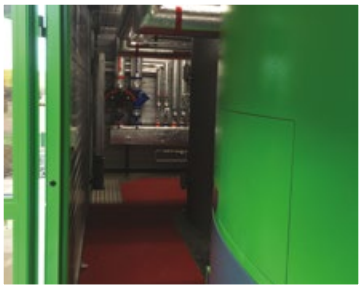

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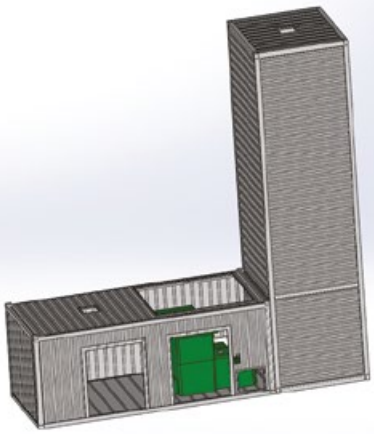
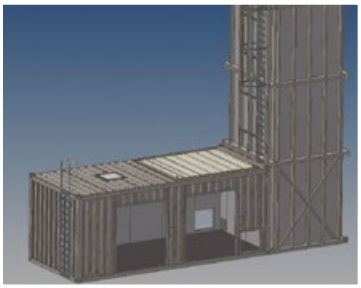
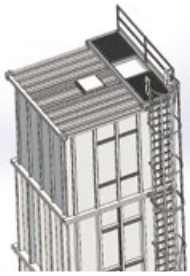
SMART REFERENCE LIST I SMART MICRO CABIN 500 KW

WITH VERTICAL SILO 90 M³
WALHAMN, SWEDEN



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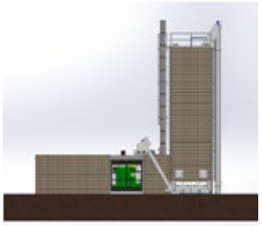
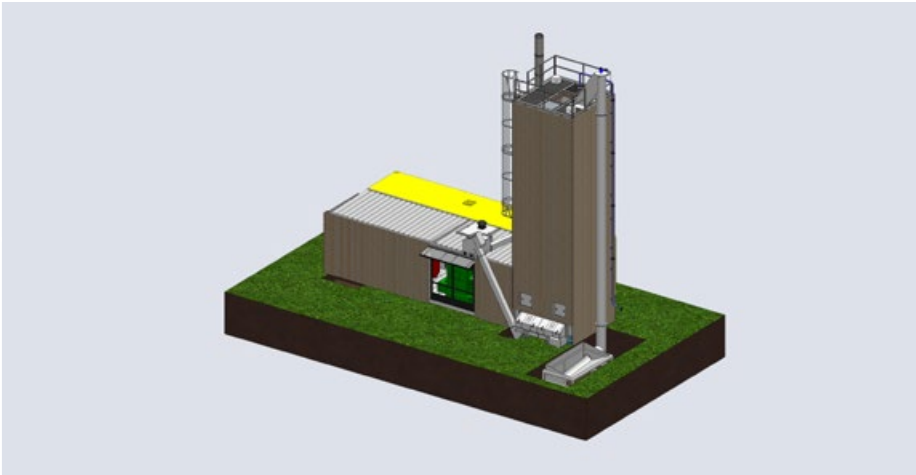
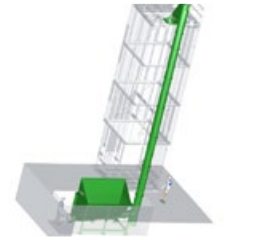
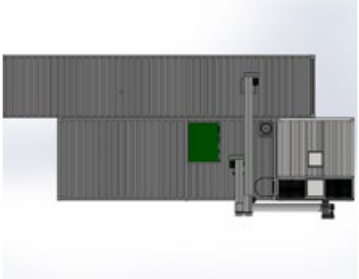
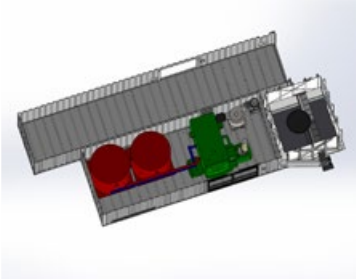
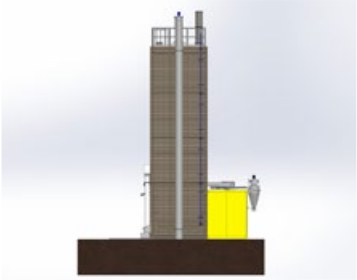
WERSON CONTAINERIZED NURSING HOUSE, CRISNÉE, BELGIUM



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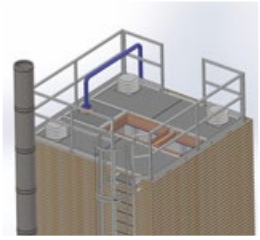
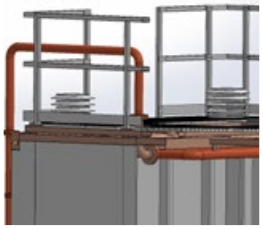
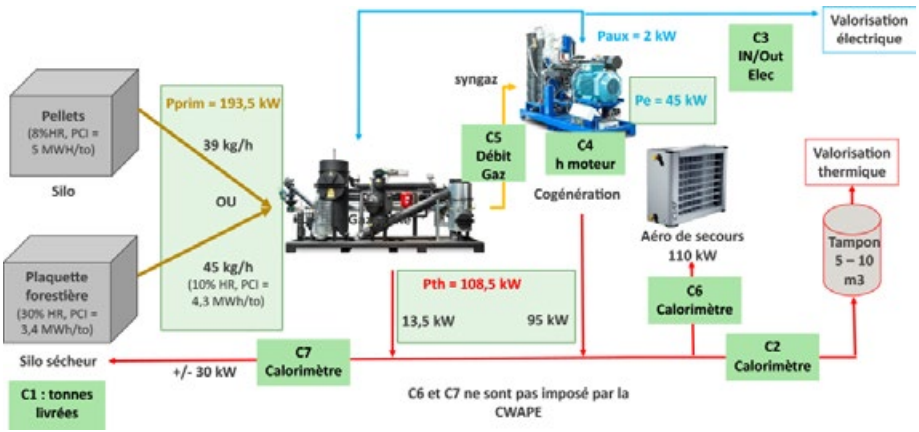
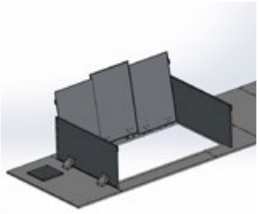
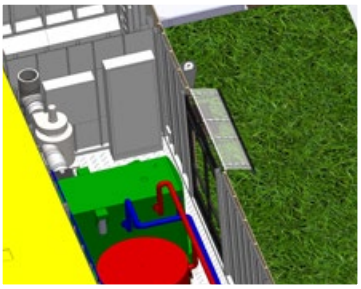
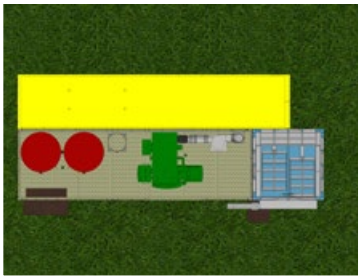
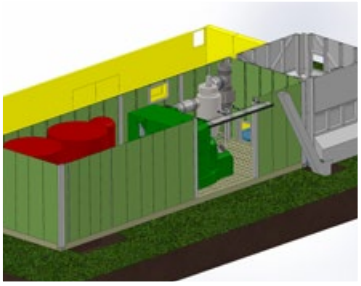
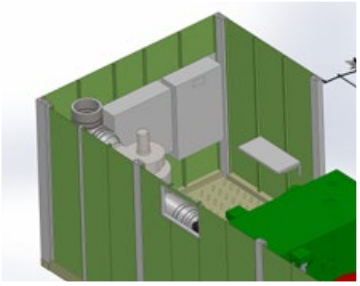
SMART REFERENCE LIST I SMART SUPER CABIN SET

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





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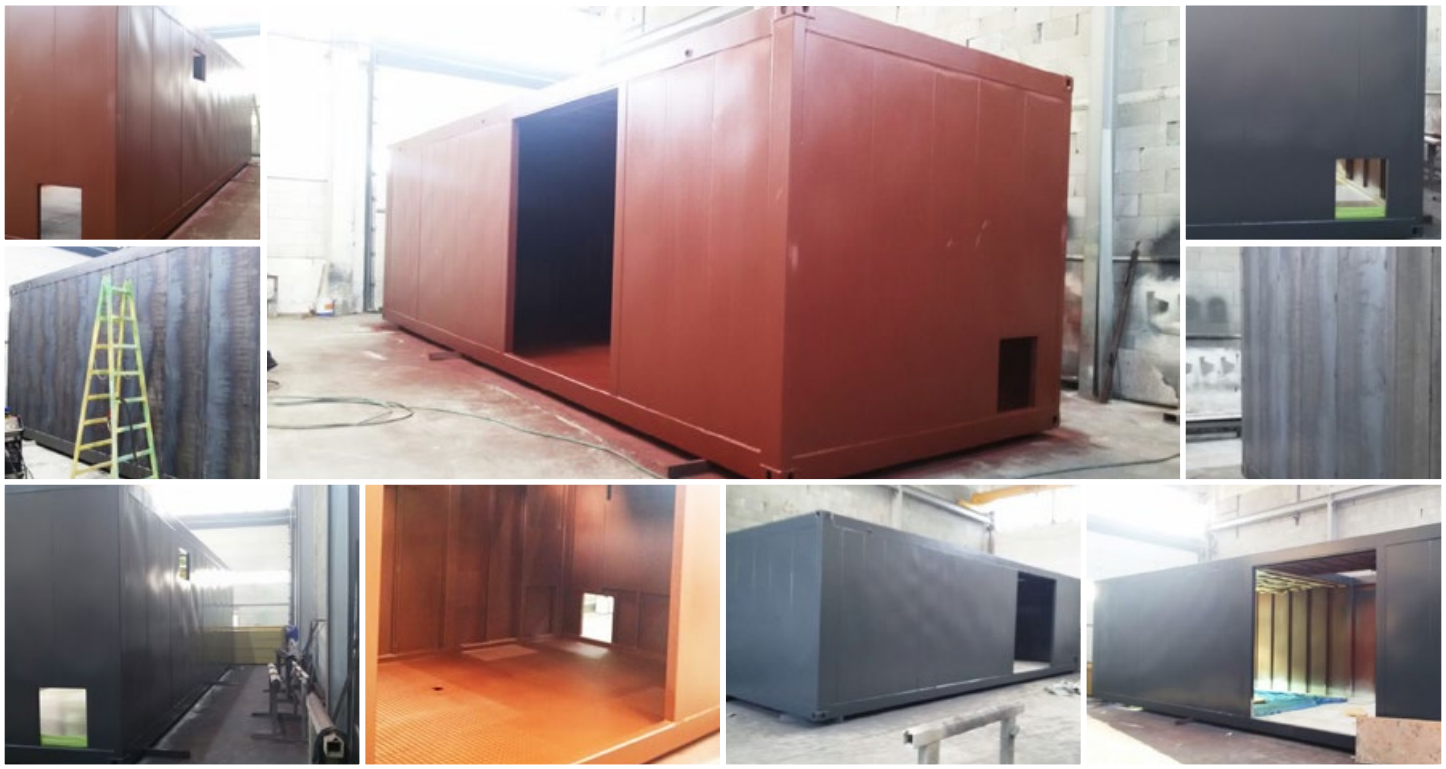

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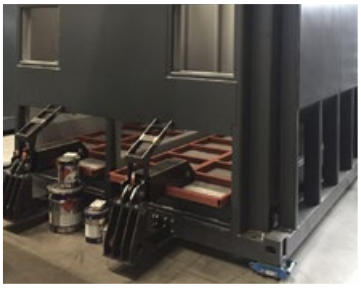

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SMART REFERENCE LIST I SMART SUPER CABIN SET

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

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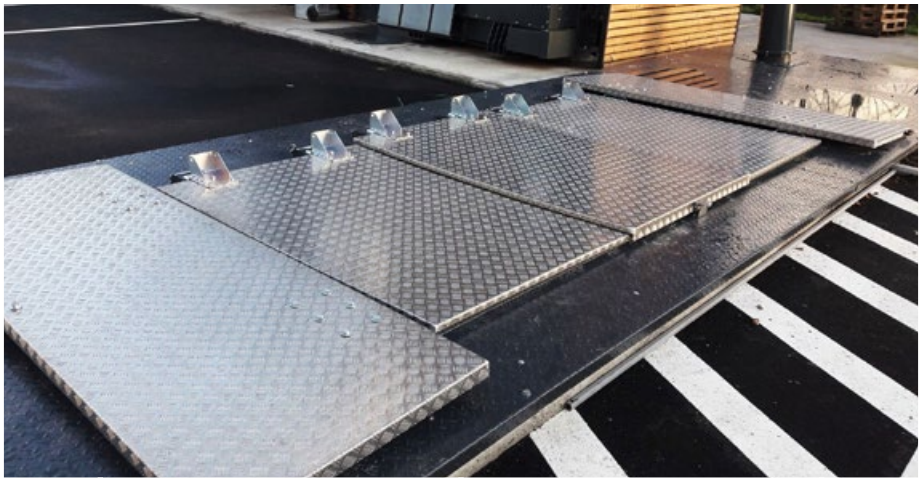

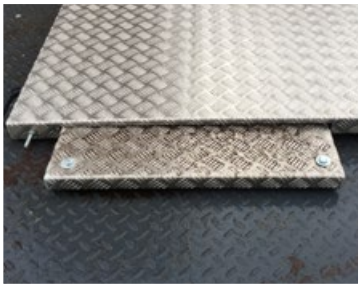

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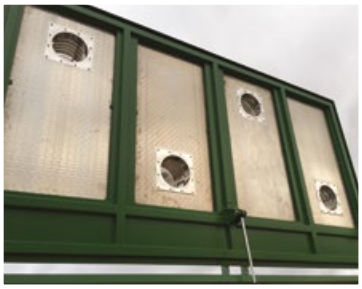
SMART REFERENCE LIST | SMART SELF-DRYING CABIN 500 KW

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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RECYCLING PLANT, MERTHYR TYDFIL, WALES, UK

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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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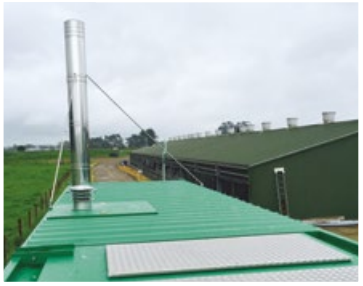
SMART REFERENCE LIST | SMART CABIN 500 KW

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



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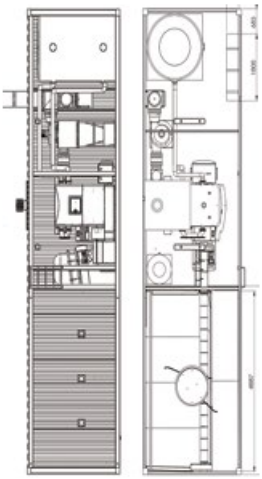
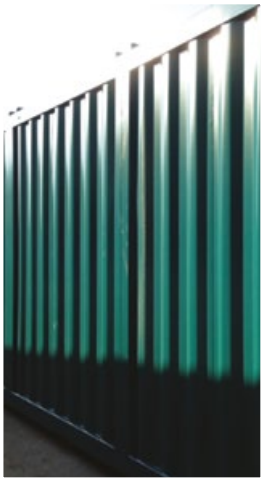
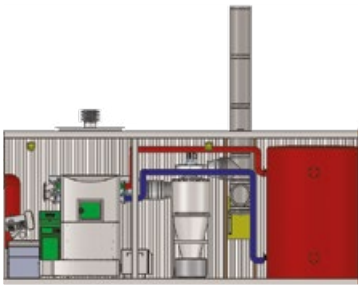
SMART REFERENCE LIST | SMART CABIN 500 KW

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

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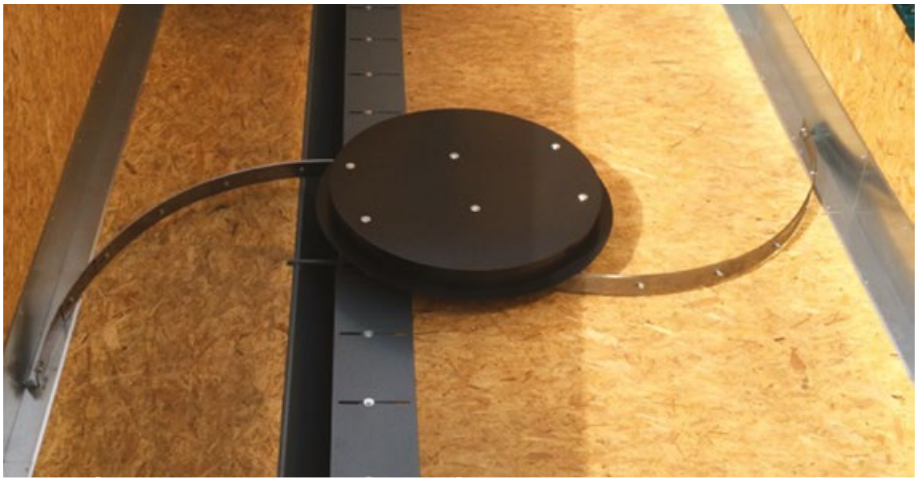
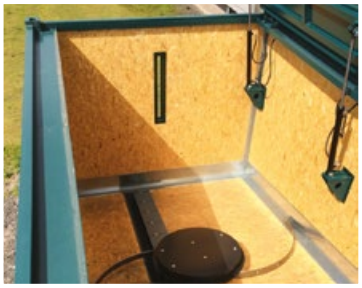
MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED CHICKEN FARM, CARNOUSTIE, SCOTLAND





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

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

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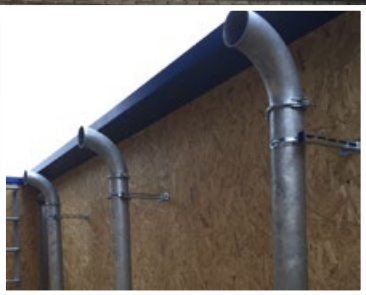
SMART REFERENCE LIST | SMART CABIN 500 KW

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



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

SMART HEATING TECHNOLOGY

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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, FORFAR, SCOTLAND

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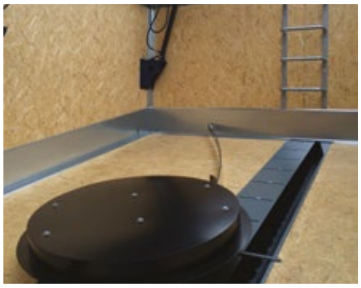
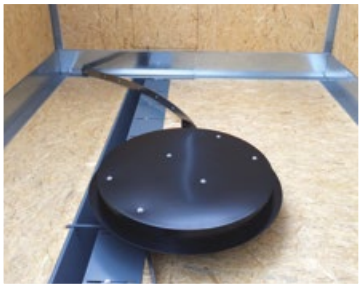
MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, 1 HEATING CIRCUIT, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION, FULLY MONITORED AND REGULATED CHICKEN FARM, FORFAR, SCOTLAND





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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, FORFAR, SCOTLAND

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

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MULTI–FUEL SILO DESIGN WITH HYDRAULIC ROOF, COMPLETE REGULATION AND REMOTE ICLOUD VISUALIZATION OF ALL HEATING CIRCUITS
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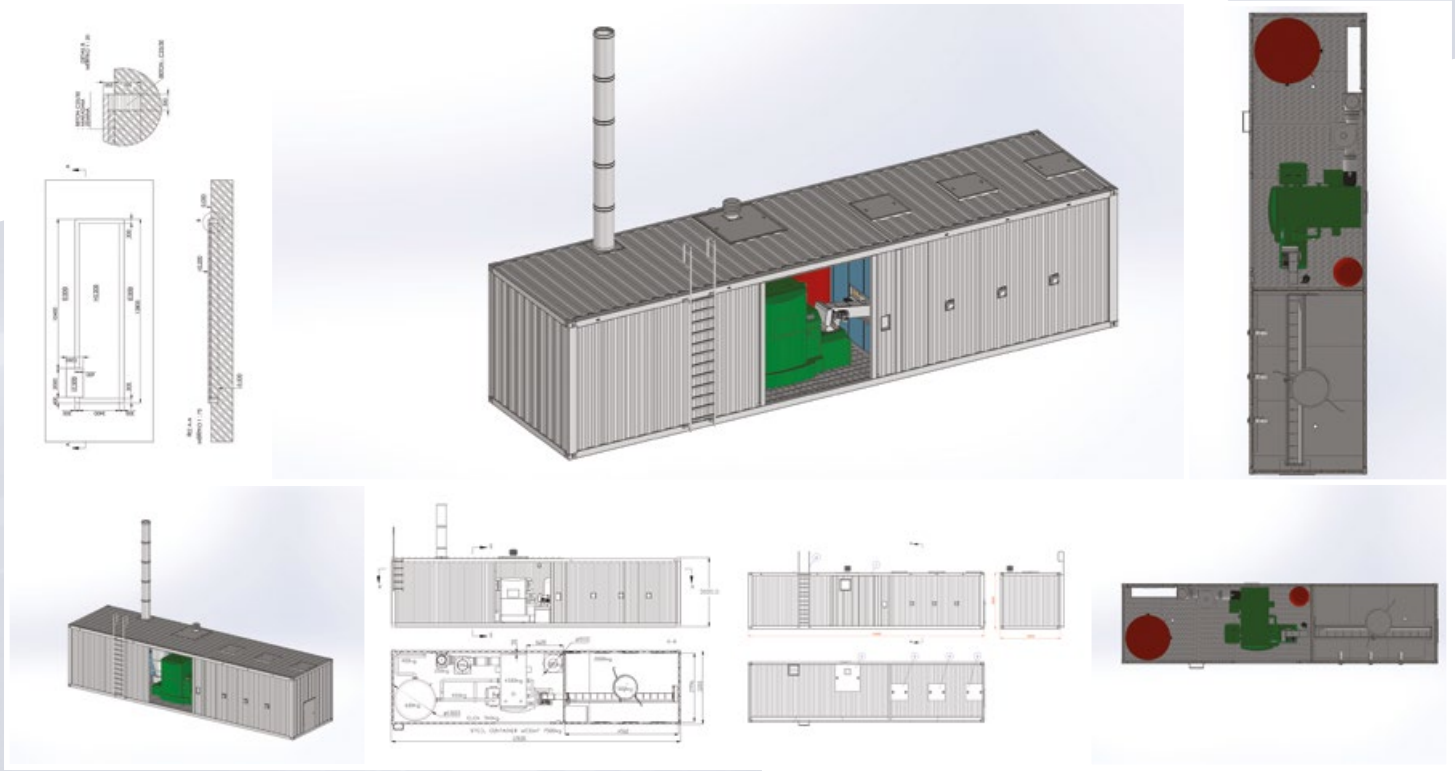
SMART REFERENCE LIST I SMART CABIN 500 KW

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



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WOOD PELLETS SILO DESIGN WITH EMERGENCY ROOF FILLING OUTLETS
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1 HEATING CIRCUIT – FULLY MONITORED AND CONTROLLED APARTMENT HOUSE
DUMFRIES, 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, WOOD PRODUCING FACTORY
SAINT GERMAIN LES BELLES, FRANCE

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SMART REFERENCE LIST I 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

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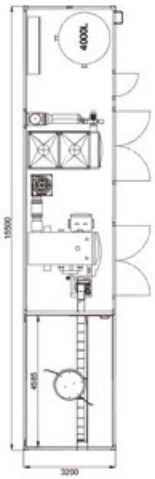
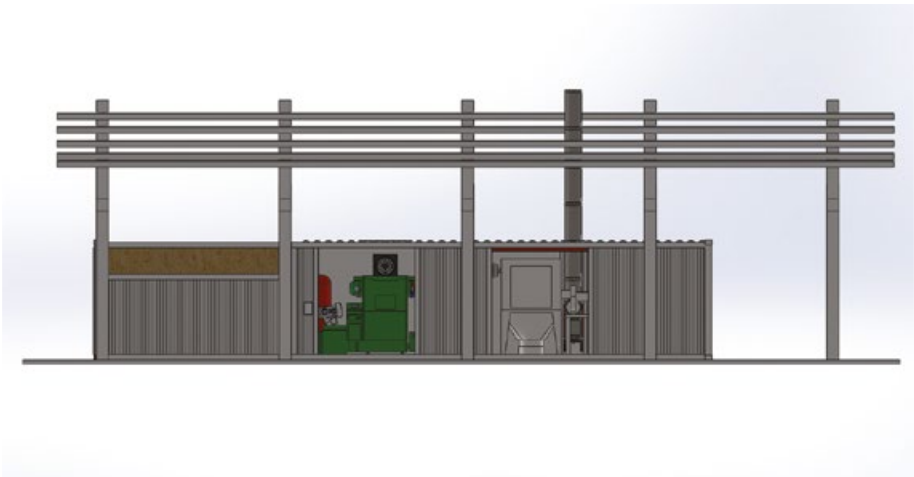
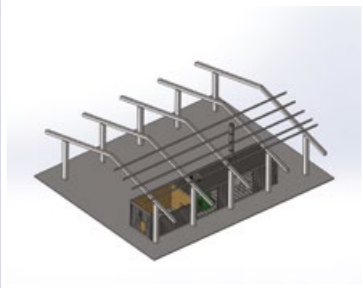
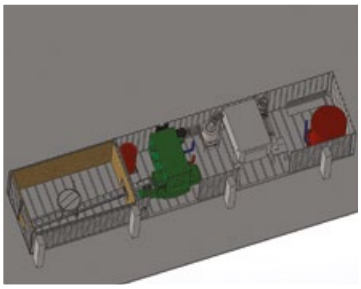
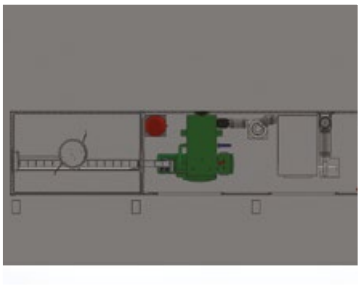
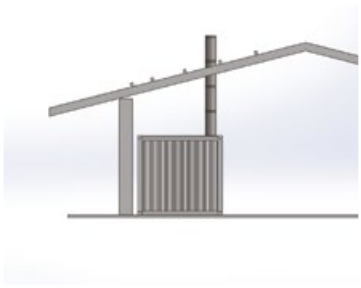
SMART REFERENCE LIST I SMART MAGNUM CABIN 500 KW WITH SPECIAL FILTRATION UNIT WITH 1,1 MG/M³ EMISSION POLLUTION

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 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

SMART HEATING TECHNOLOGY

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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
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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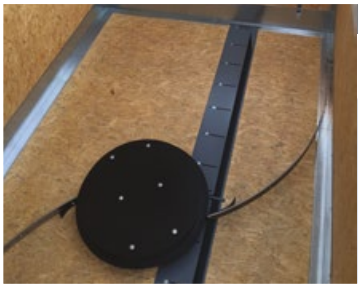
SMART REFERENCE LIST | SMART FARM PANEL CABIN 500 KW

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



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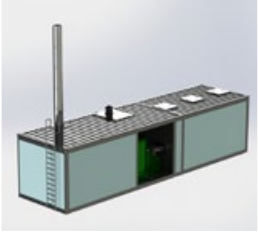
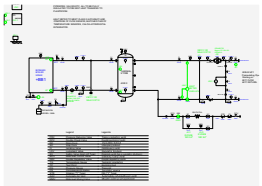
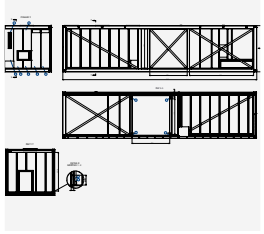
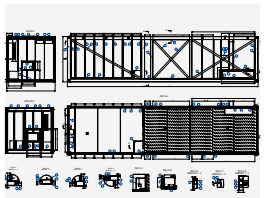
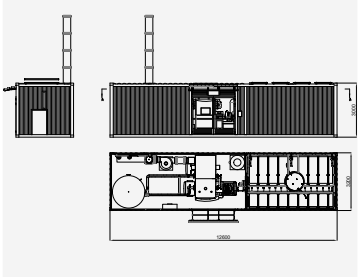
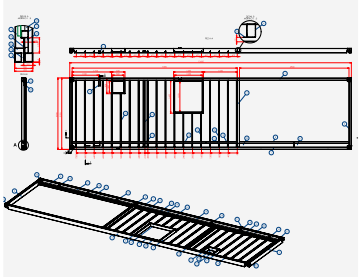
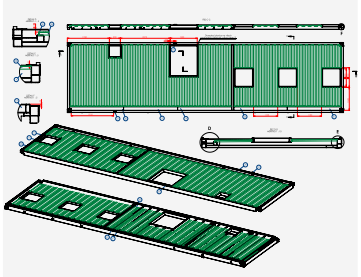
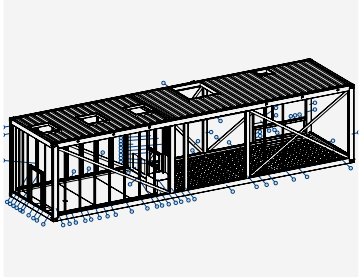
SMART REFERENCE LIST | SMART-ETHX PANEL CABIN 500 KW

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

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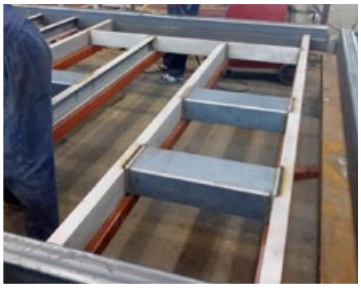
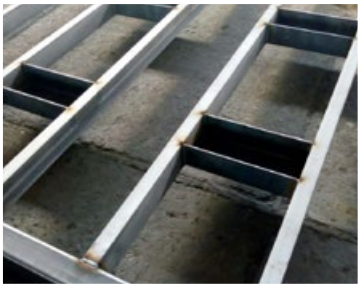

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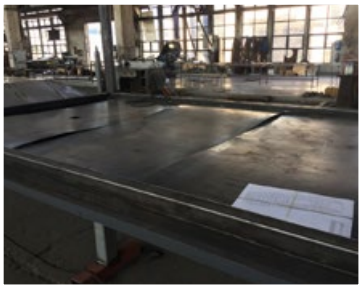

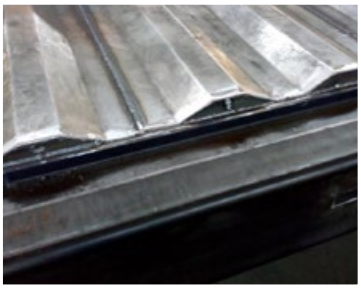

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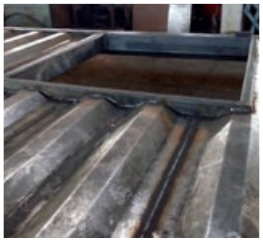

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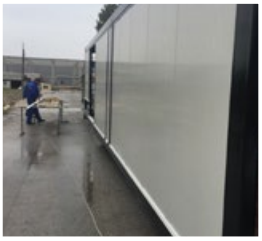

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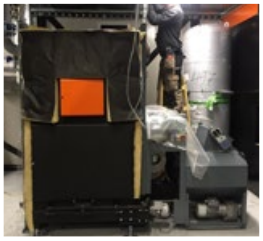

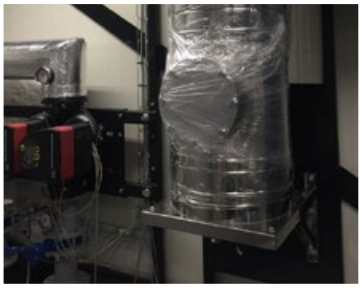

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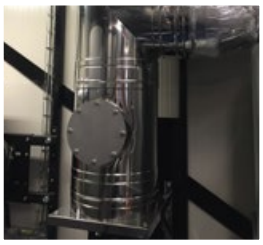

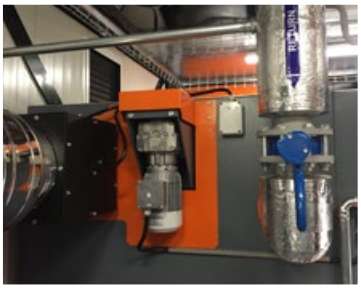

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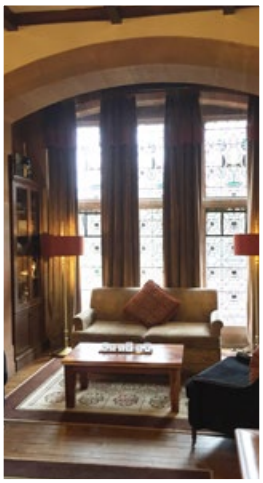

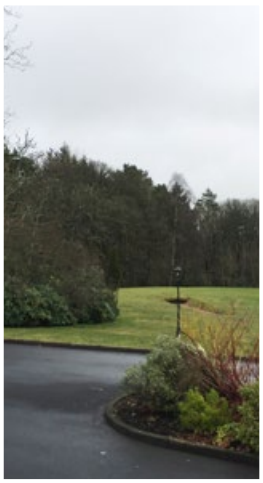

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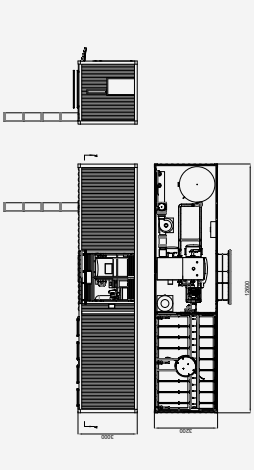

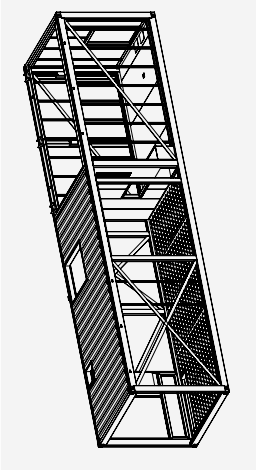

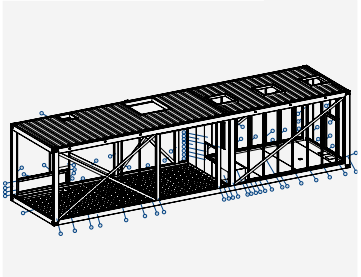

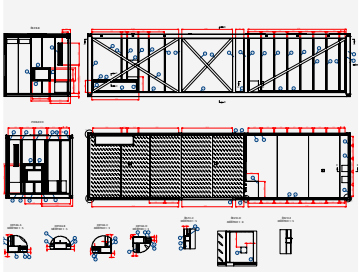

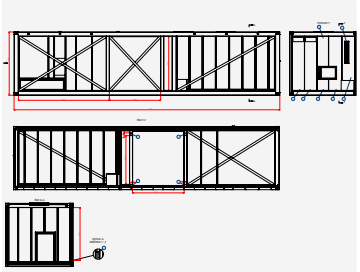

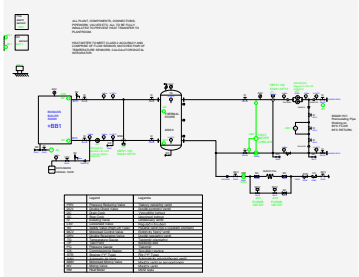

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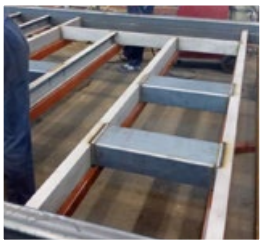

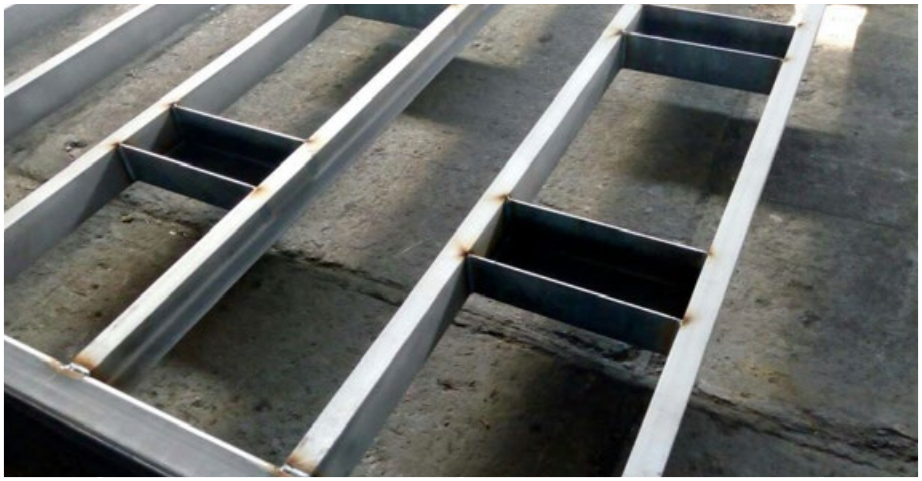

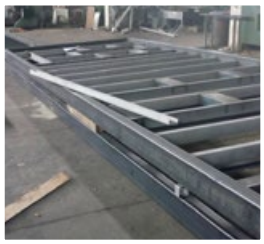

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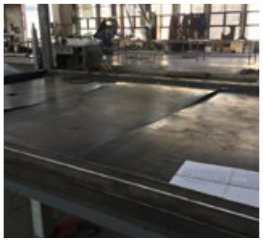

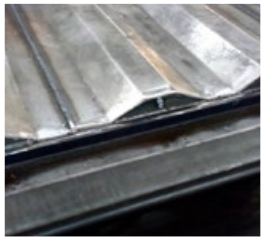

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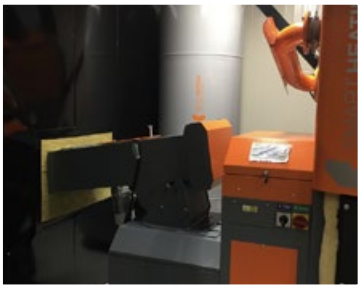

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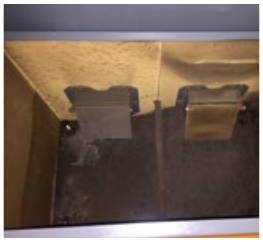

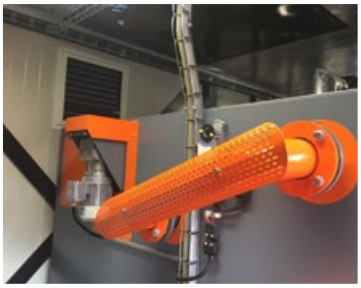

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SMART REFERENCE LIST I SMART-ETHX PANEL CABIN 500 KW

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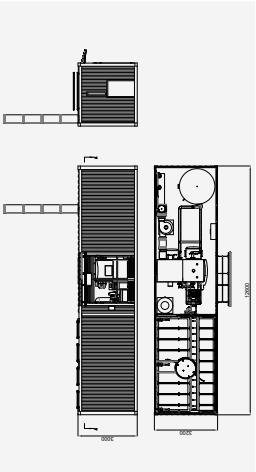

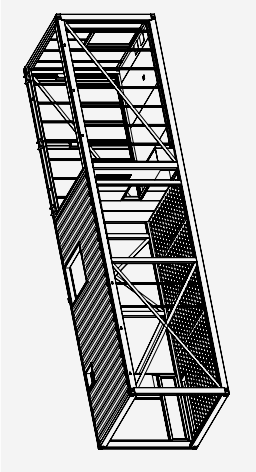

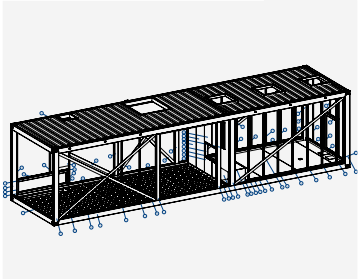

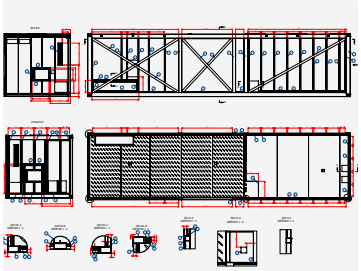

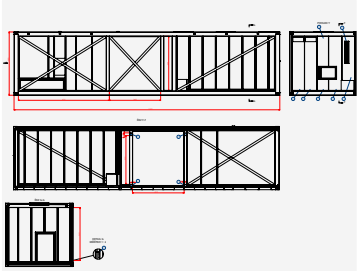

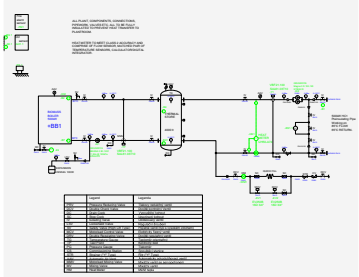

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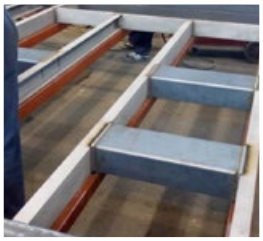

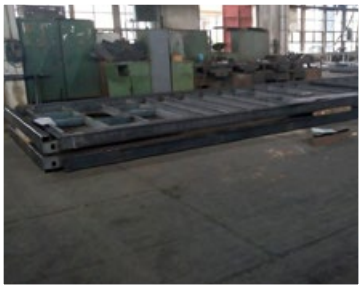

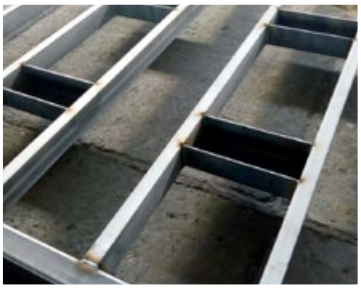

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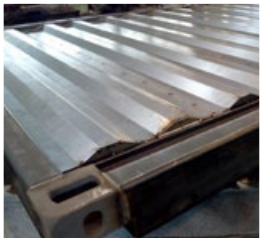

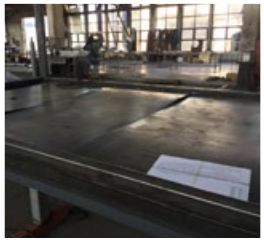

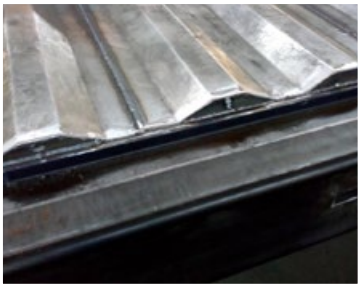

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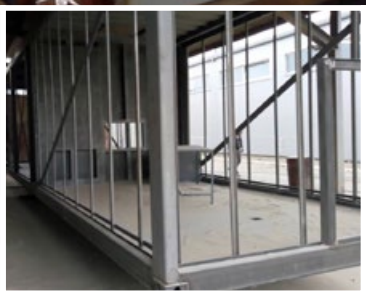

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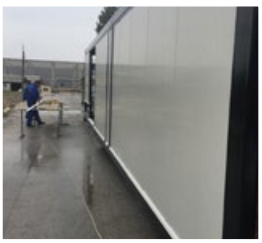

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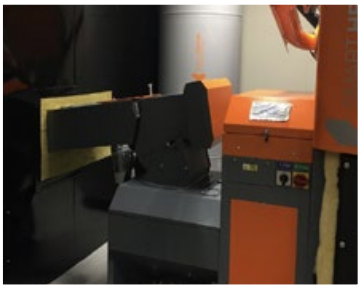

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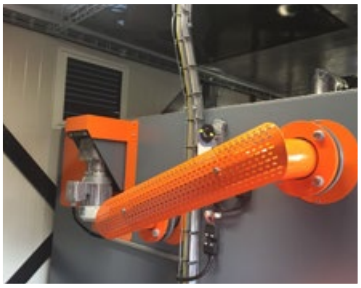

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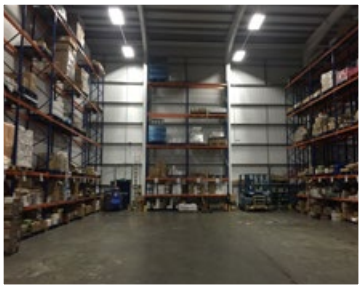
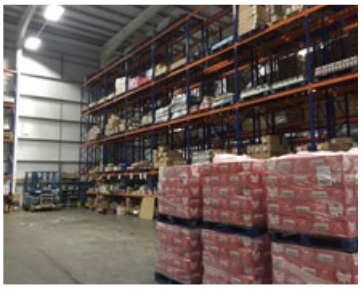

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SMART REFERENCE LIST | SMART GD ENVIRONMENTAL PANEL CABIN 500 KW

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

SMART HEATING TECHNOLOGY

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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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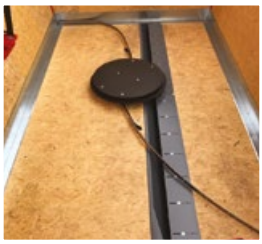

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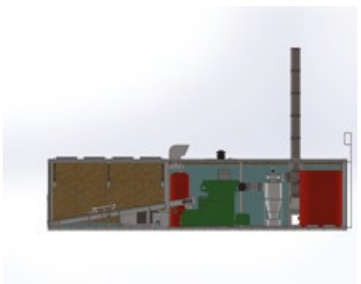
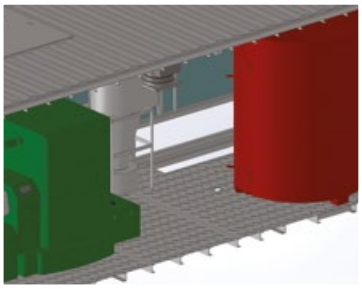
SMART HEATING TECHNOLOGY

SMART HEATING TECHNOLOGY

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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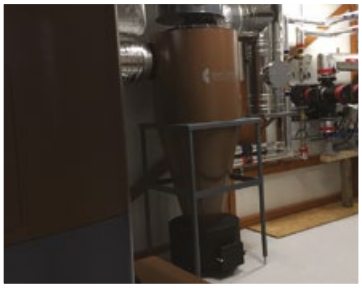

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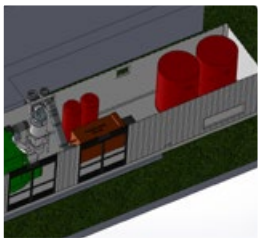
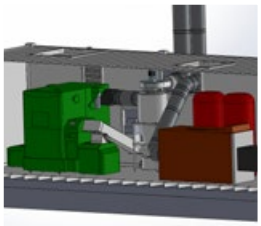
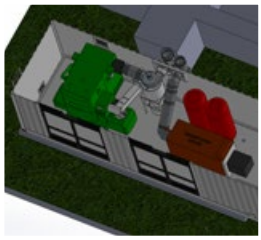
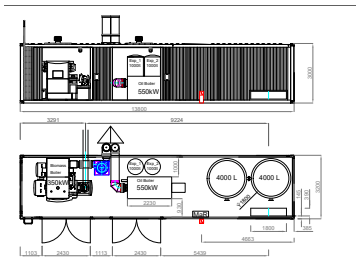
SMART REFERENCE LIST | SMART MAGNUM CABIN WITH BIOMASS-OIL COMBINATION 350 KW + 550 KW

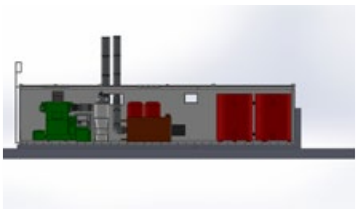
3,2 X 3 X 13,8 M SMART MAGNUM CABIN WITH 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1+1 HEATING CIRCUIT, 2 X 12 M CHIMNEY + CHIMNEY STRUCTURE, MULTI-FUEL CONVEYOR CONNECTED TO AN EXISTING SILO WITH MOVING FLOOR SCHOOL HEATING + APARTMENT BUILDING HEATING, LILLEHAMMER, NORWAY

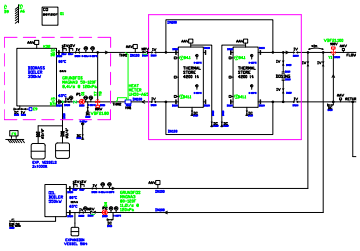






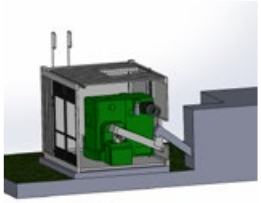


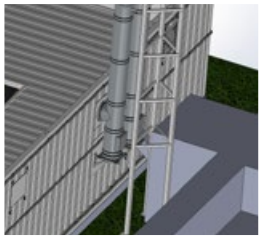
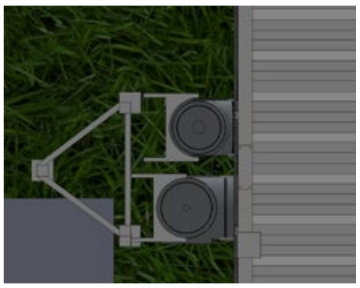
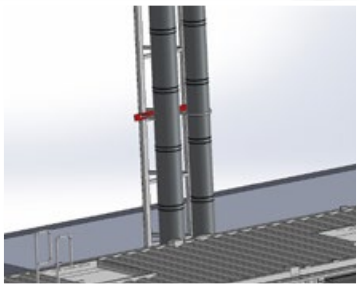


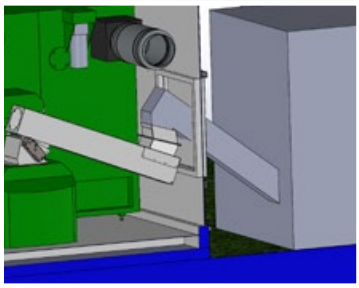


3,2 X 3 X 13,8 M SMART MAGNUM CABIN WITH 2 X 4000 L OF ACCUMULATION TANK STORAGE, 1+1 HEATING CIRCUIT, 2 X 12 M CHIMNEY + CHIMNEY STRUCTURE, MULTI-FUEL CONVEYOR CONNECTED TO AN EXISTING SILO WITH MOVING FLOOR

SCHOOL HEATING + APARTMENT BUILDING HEATING, LILLEHAMMER, NORWAY





SMART HEATING TECHNOLOGY

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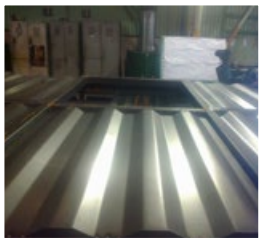
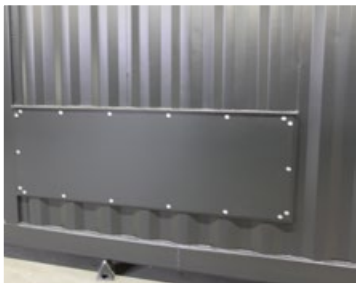
SMART REFERENCE LIST I SMART MAGNUM CABIN WITH BIOMASS–OIL COMBINATION 350 KW + 550 KW

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





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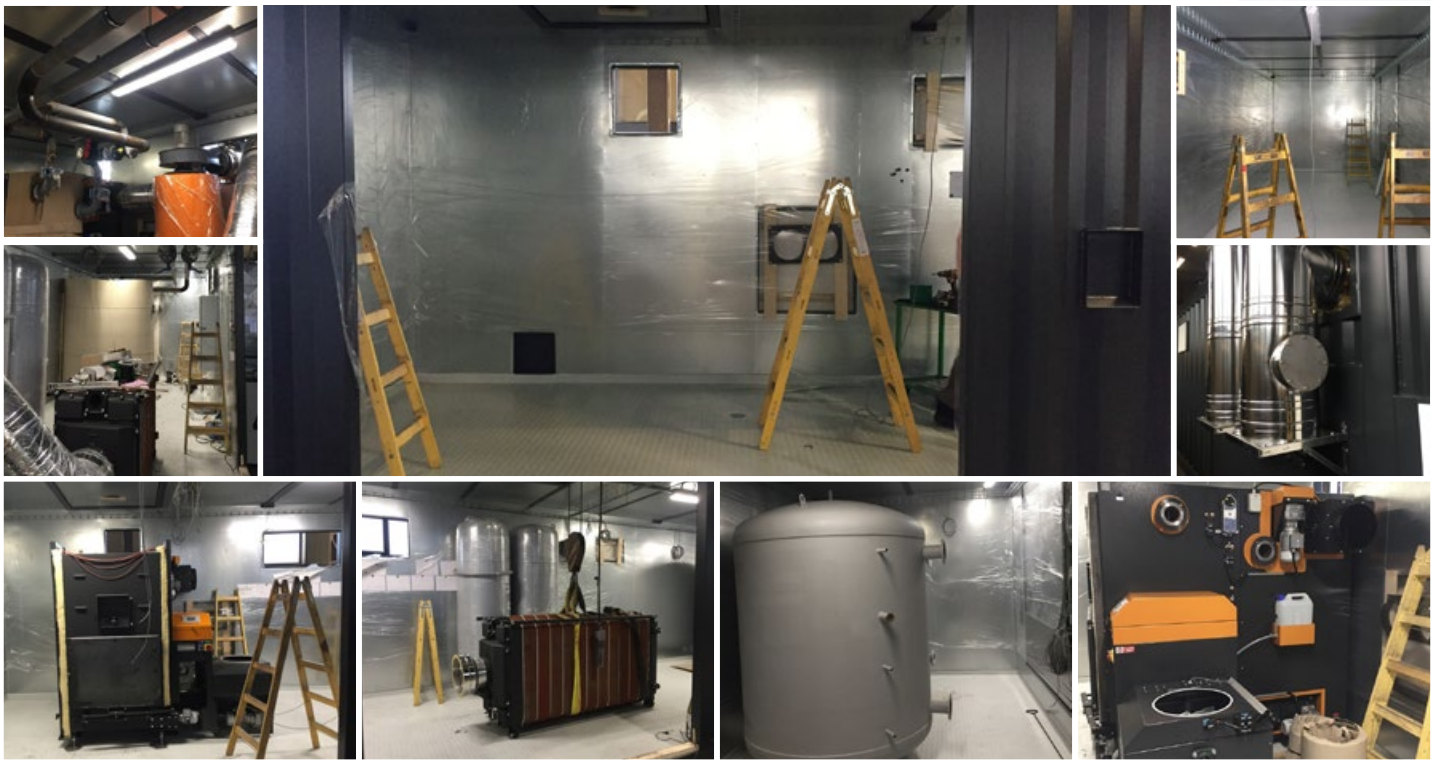

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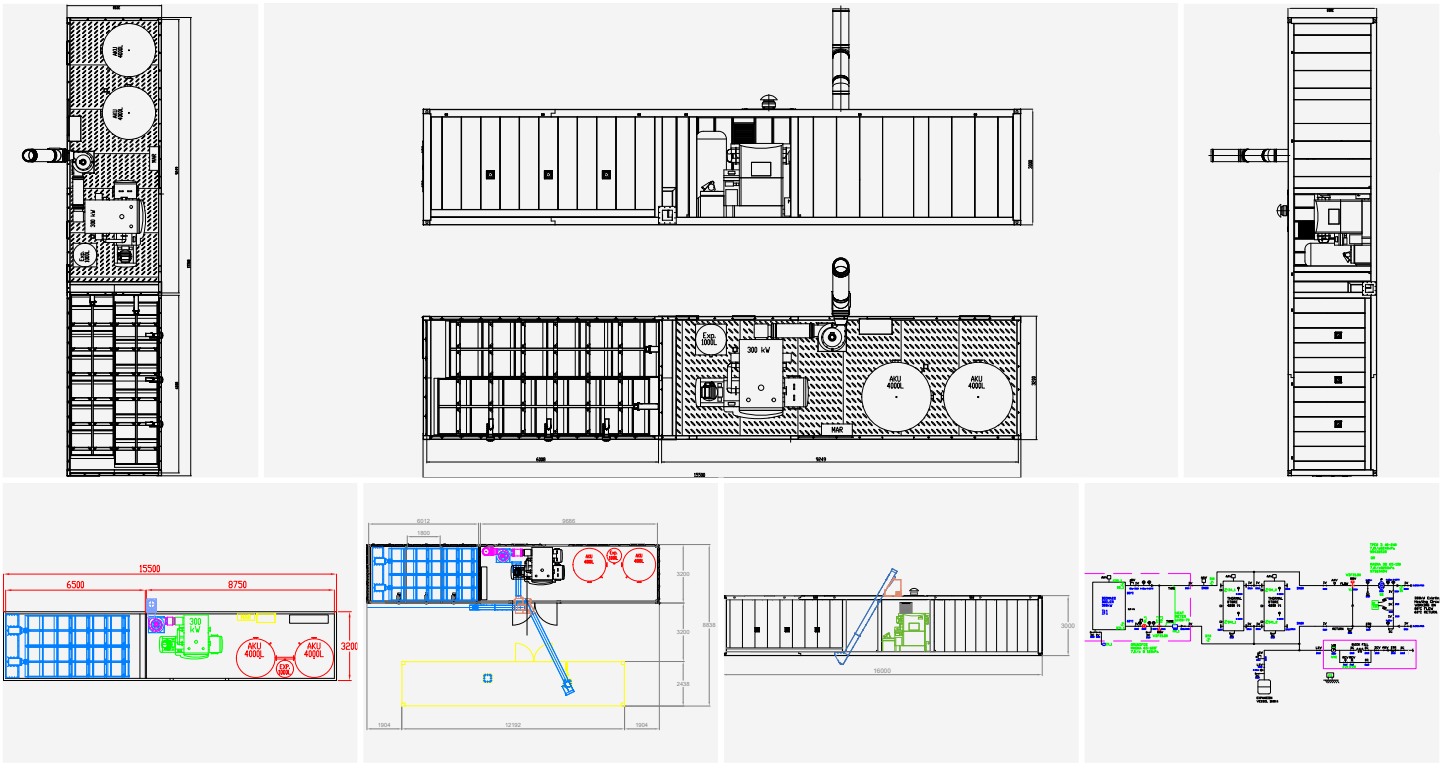
SMART REFERENCE LIST | SMART SUPER MAGNUM CABIN

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



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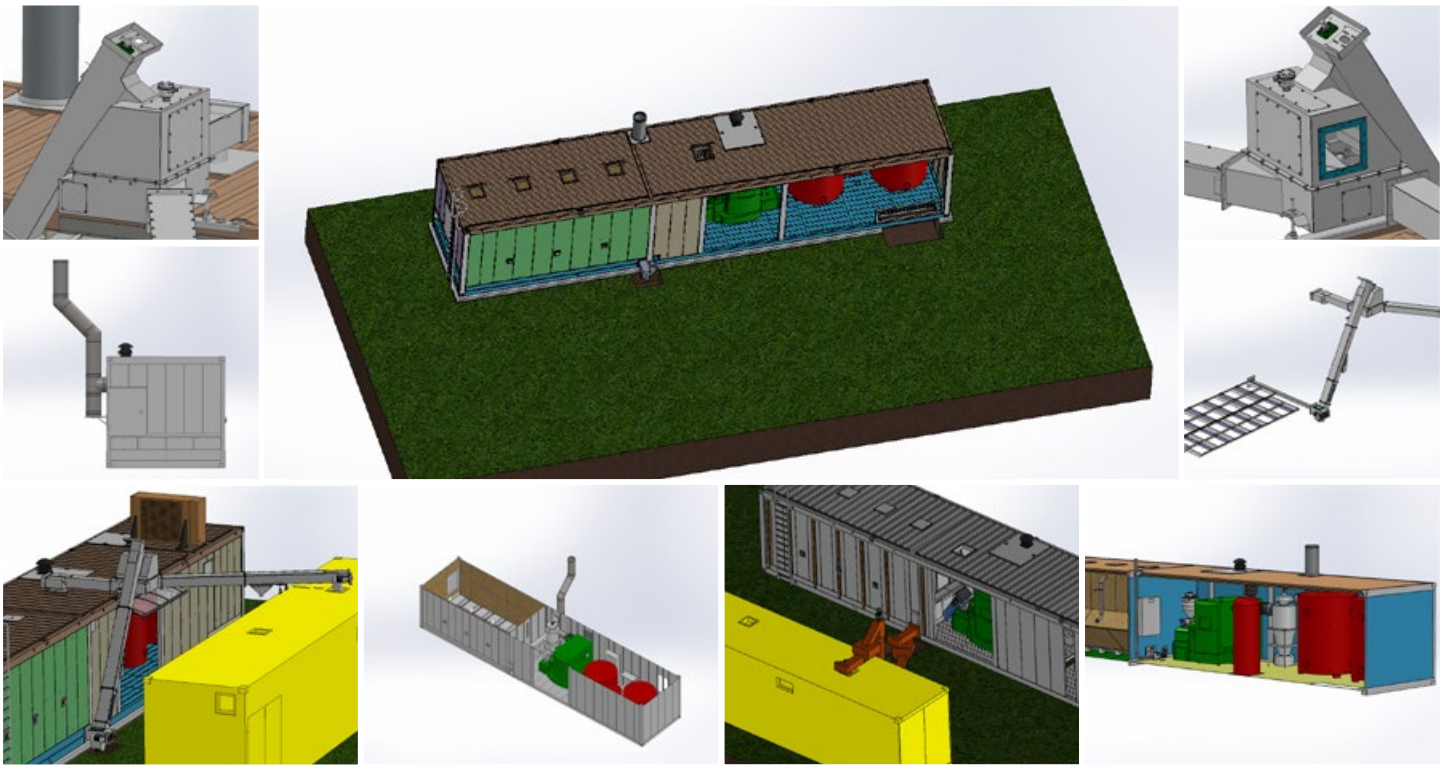

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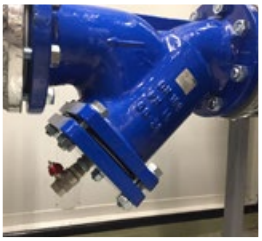

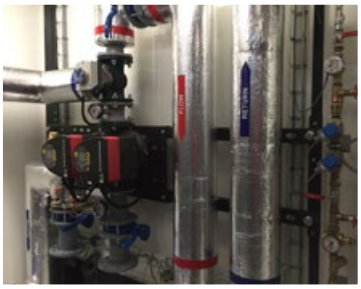

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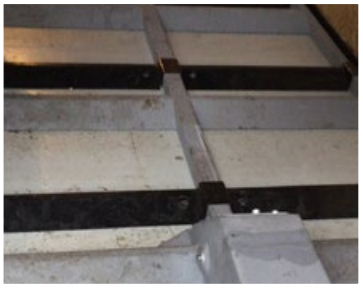

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SMART HEATING TECHNOLOGY

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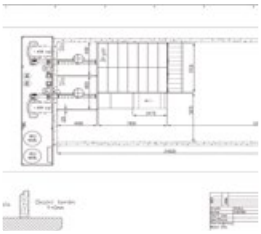
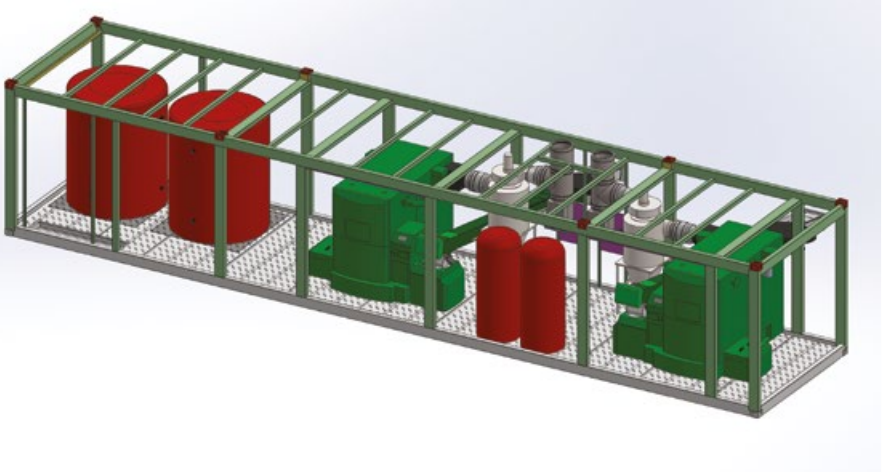
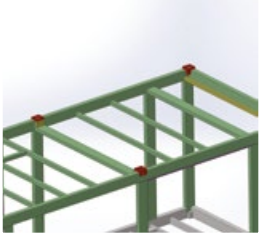
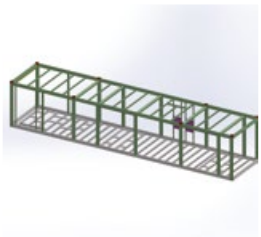
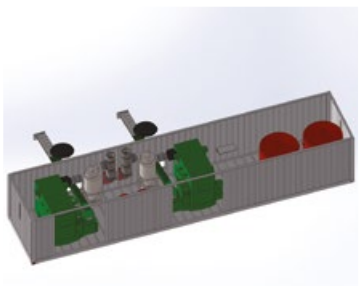
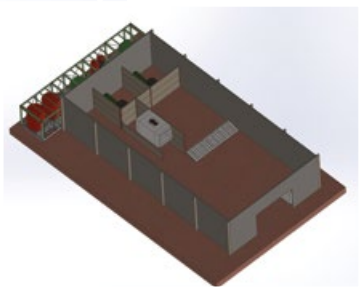
SMART REFERENCE LIST I SMART MAGNUM CABIN 2 X 500 KW WITH SMART WOODCHIP/GRAIN DRYER

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





SMART HEATING TECHNOLOGY

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

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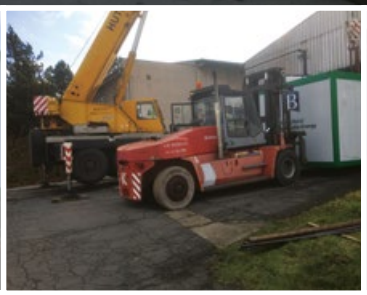

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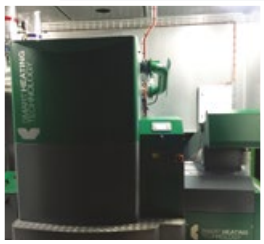
SMART REFERENCE LIST | SMART MAGNUM CABIN 1 000 KW

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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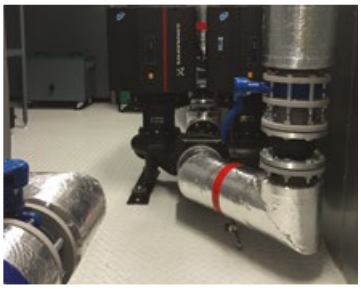

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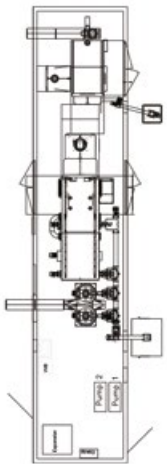
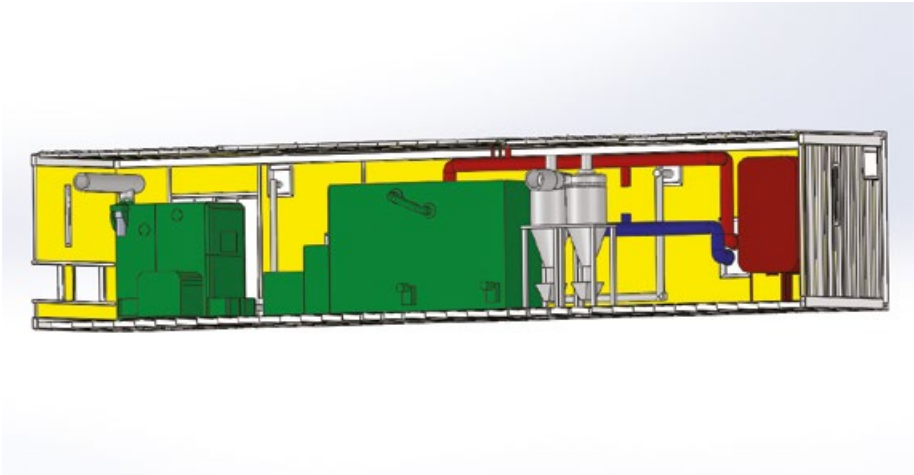
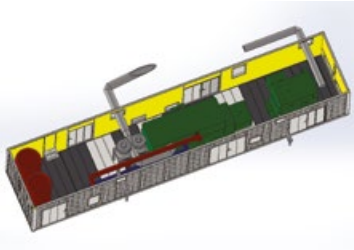
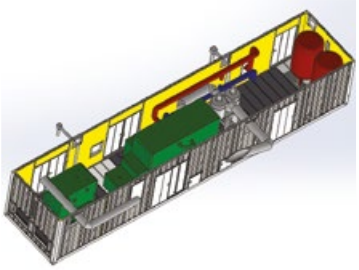
SMART REFERENCE LIST I SMART MAGNUM CABIN 1 250 KW

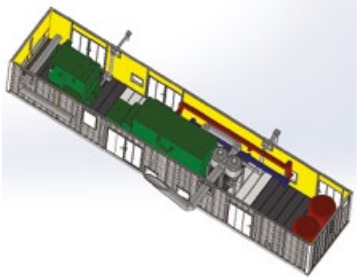
WITH CONTAINERIZED MULTI–FUEL SILO WITH HYDRAULIC ROOF AND MOVING FLOOR
STORA SEGERSTAD COLLEGE, SWEDEN

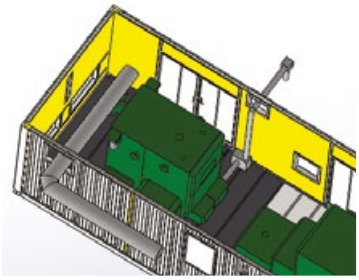












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WITH HORIZONTAL WOOD PELLETS SILO 100 M³

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Smart Heating Technology s.r.o.

1. Evaluating current situation/state
2. Processing technical solutions
3. Calculating expenses and returnability
4. Producing precisely
5. Delivering and installing
6. Monitoring installation 24/7
7. Servicing and maintaining periodically
8. Supplying fuel

We analyze properly

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We look after our clients

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