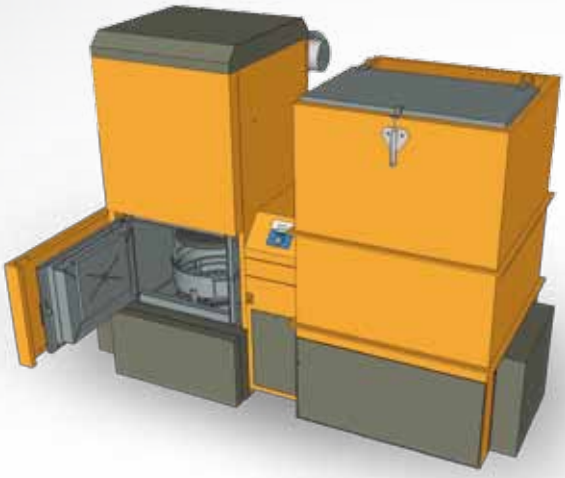
15 - 100 kW Hamont boilers

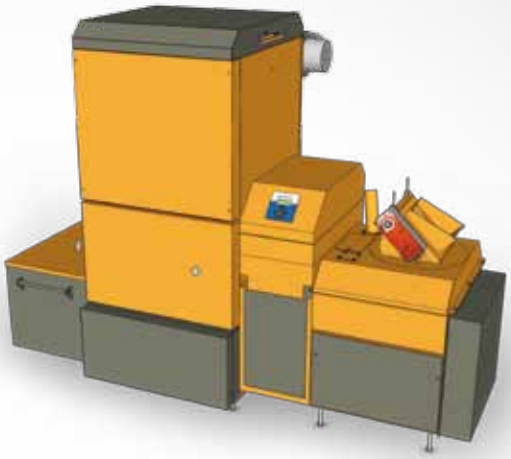
Type execution:

- 1-1.4 m³ volume fuel container (USV)
- Automatic fuel top-up from the central warehouse to boiler intermediate container (USZI)

Power series:

- **15 kW - 25 kW - 40 kW - 60 kW - 80 kW - 100 kW**





Main properties:

- automated fuel ignition, fuel supply to the combustion compartment, cleaning of the heat transfer surfaces of the exchanger, removal of ashes, grating and all other important functions
- automated and **unmanned** operation of the boiler itself and the boiler circuit including low-temperature protection control.
- control of two independent heating circuits, charging of hot service water in the tank, and/or storage vessel.
- **optimised combustion process** across the entire power range of the boiler with the continual readout of the oxygen surplus value in the flue gases by a lambda probe
- **communication** swith the superior control via status signals and changes in the fundamental parameters by Modbus RTU, Modbus RTU/IT protocol, or potential-free contacts (status signals only)
- remote communication via a **GSM gate** including dispatch of SMS with failure status of the system
- **visualisation** via Ethernet interface
- **versatility** in terms of guarantee and recommended fuels (sawdust, shavings, pellets, briquettes, chips, specified alternative fuels, ...)
- **boiler controllability** within the range of 30 – 100%
- the range of our products and modularity of individual structural groups allows for the identification of a specific solution both in terms of installed power and structural layout for almost every customer

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Hamont US boiler technical data

Designation		15	25	40	60	80	100
Nominal power Pn	kW	15	25	40	60	80	100
Partial load Pp	kW	4	7	11	17	23	29
Boiler efficiency at Pn	%	90,5	90,3	90,2	90	89,4	88,2
Boiler efficiency at Pp	%	87,7	88,9	89,5	89,1	88,5	87,7
Boiler class		3	3	3	3	3	3
Water							
Volume of water	l	82	64	165	129	105	105
Water connection diameter	"	5/4	5/4	2	2	2	2
Water connection diameter	DN	32	32	50	50	50	50
Hydraulic boiler loss at temperature gradient of 10°	mbar	1,4	3,7	7,5	17	29,9	47
Hydraulic boiler loss at temperature gradient of 20°	mbar	0,35	0,9	1,9	4,3	7,5	11,9
Boiler temperature	°C	65-90	65-90	65-90	65-90	65-90	65-90
Min. temperature of return water	°C	55	55	55	55	55	55
Max. operating pressure	bar	3,5	3,5	3,5	3,5	3,5	3,5
Test pressure	bar	6	6	6	6	6	6
Hearth temperature	°C	900 – 1100					
Hearth pressure	mbar	-0,01	-0,01	-0,01	-0,01	-0,01	-0,01
Required chimney draught	mbar	0,2	0,2	0,2	0,2	0,2	0,2
Need for artificial draught		yes	yes	yes	yes	yes	yes
Flue gas temperature at Pn	°C	185	185	185	185	195	205
Flue gas temperature at Pp	°C	90	90	90	90	95	105
Mass flow rate of flue gas at Pn	kg/h	45	75	120	180	240	300
Mass flow rate of flue gas at Pp	kg/h	15	24	39	60	81	99
Volume of flue gas at Pn	mn^3/h	35,3	58,8	94	141	188	235
Volume of flue gas at Pp	mn^3/h	11,8	18,8	30,6	47	63,5	77,6
Smoke pipe diameter	mm	180	180	200	200	200	200
Chimney diameter	mm	180	180	200	200	200	200
Chimney execution		resistant to moisture					
Fuel							
Maximum size	cm	3	3	3	3	3	3
Maximum moisture content	%	30	30	30	30	30	30
Electric equipment							
Connection		400 V, 50 Hz, 3-phase with a neutral					
Total	W	3048	3048	3131	3131	3131	3131

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