

Wood Gasification Boilers The New Generation OG Series



Brilliant DesignOG Series Wood Gasification Boilers



The new generation OG series has been developed as a very quiet, efficient and economical system for wood log users. Large combustion chamber allows a volume of fuel to be loaded which will last up to 7 hours of heating.

Large heat absorbing surfaces, extended hot gas passages and pre-heated air intake ensures OG series boilers to be one of the most efficient products out in market.

With smart design processes, access-friendly spaces allow easy and quick cleaning when required.

Simple yet effective, OG series can be employed with an optional buffer tank to further increase its efficiency, which allows decreasing the periods of it should be refuelled.

Superior Efficiency

Emmission values are well below most strict European directives.

- High effilency > 92 % net.
- Low emissions < 250 mg/m3 CO
- Only 15 mg/m3 dust.

Separately controlled primary and secondary combustion air.



WHAT Makes OG Series DIFFERENT FROM THE OTHERS?



Special Canals inside the doors allows pre-heating combustion air via natural air flow.



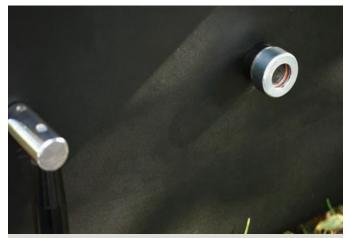
Pre-Heating canals interior view



Large loading door at waist level



Interchangable copper Emergency flush system



Observation Glass in the lower door



Independently adjustable Primary and seconday air inlets



By-Pass system automatically engages and prevents smoke bursts when the door is open.



Robust and years of prooven hinge system



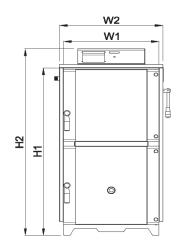
Induced draft fan keeps the system in constant vacuum eliminating the possibility of a smoke leakage to the ambient.

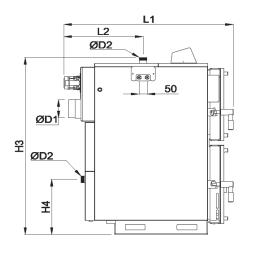


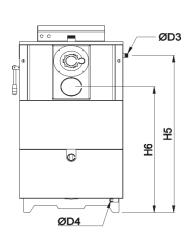
Reverse flame in combustion chamber

OG Series Wood Gasification Boilers









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CHEPTUR · EVEPYEIG (IB) (IA)

Technical Specifications

	TECHNICAL SPECIFICATION OF WOOD GASIFICATION BOILERS		UNIT	BOILER TYPE				
				OG20	OG30	OG40	OG60	
≥	Nominal Heat Output		kW	20	30	40	60	
CAPACITY			kcal/h	17.200	25.800	34.400	51.600	
CA	Net Efficiency		%	>92%				
OPERATING CONDITIONS	Safety Limit Temperature		°C	97				
	Max. Operating Temperature		°C	85				
	Min. Water Return Temperature		°C	55				
	Operating Pressure		bar	3				
	Boiler Test Pressure		bar	4.5				
	Boiler Design Temperature		°C	150				
	Electrical Connection		-	230 V _{ac′} 50 Hz				
IDNC	Recommended Fuel Types		_	Ø80 x500mm Ø80 x 700mm				
פככ				Hard Wood, 15% < Humidity < 25%				
ATIN	Minimum Required Stack Draught		Pa	10				
PER	Boiler Gas Side Resistance		Pa	125	110	140	230	
	Boiler Water Side Pressure Drop	ΔT = 10 °C	mbar	39	22	44	92	
		ΔT = 20 °C		11	6	11	23	
	CO Emission Rate, (13 % O ₂ ref)		mg/m³	< 250				
	Fuel Filling Volume		lt	80	120	160	235	
			kg	28	42	56	84	
	Required Accumulation Tank Volume		lt	1000	1500	2000	3000	

	MAIN DIMENSIONS		UNIT	BOILER TYPE			
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	W ₁ - Width		mm	550	600		
	W ₂ - Total width with cover plates		mm	600	650		
DIMENSIONS	L, - Length		mm	10	050 1375		
	H ₁ - Height		mm	1075	1200 145		1450
	H ₂ - Total Height		mm	1230	1355		1605
DIM	Stack Diameter ØD1 (inner-outer)		mm	125	125 - 130 146		5 -150
	H ₆ - Height of Stack Connection		mm	755	880	870	1095
	Water Content		lt	75	90	115	165
	Approx. Empty Weight		kg	345	410	485	600
	Hot Water Outlet Connection	Diameter, ØD2	inch	1 ½"			
		Position, H ₃	mm	1140	1265		1515
S		Position, L ₂	mm	47	72.5 597.5		606.5
E	Water Inlet	Diameter, ØD2	inch	1 ½"			
CONNECTIONS	Connection	Position, H ₄	mm	380	395		
8	Safety Cooling	Diameter, ØD ₃	inch	3/4"			
	Heat Exchanger	Position, H ₅	mm	992	1124		1374
	Filling & Drain Connection	Diameter, ØD ₄	mm	1/2"			



