

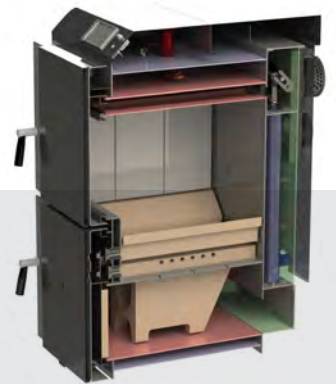
Ventum Series

Next Generation Gasification Boilers



“Europe’s Fastest Selling Gasification Boiler!”

It is designed for efficiency, economy and conservation of the environment. With 92% efficiency, emissions way below European and German regulations, adaptable to wood fuel moistures up to 33%, superior health and safety features and easy to use electronic controls, this gasification boiler is a testament of quality and perfection.



Features



Large loading door at waist level



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



Cleaning made easier by a simple swing of an external lever



Electronic Management with Smart Control panel is able to check flue gas temperature and regulate the fan for optimal heat production output.



To have the best combustion, primary and secondary air adjustments are very easy to do, even while the boiler is operating.



Interchangeable Overheat Discharge Assembly



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



Faster and longer gasification



Wood



Wide Doors

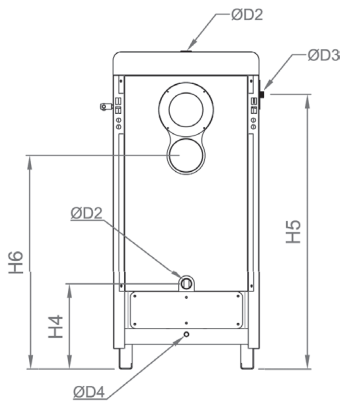
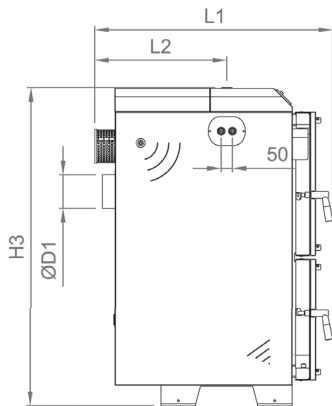
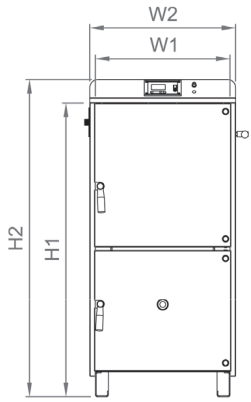


Gasification

Regulated
Fan

Long Life

Technical Specifications



TECHNICAL SPECIFICATION OF VENTUM TYPE WOOD GASIFICATION BOILERS		Unit	BOILER TYPE						
			VG20	VG30	VG40	VG60	VG80	VG100	
CAPACITY	Nominal Heat Output	kW	20	30	40	60	80	100	
		kcal/h	17.200	25.800	34.400	51.600	68.800	86.000	
	Direct Efficiency	%	90,1	90,4	91,2	91,7	91,5	91,3	
OPERATING CONDITIONS	Boiler Class	-	CLASS 4 acc. To EN 303-5						
	Safety Limit Temperature	°C	97						
	Setting Range of Operating Temperature	°C	85 - 55						
	Min. Water Return Temperature	°C	55						
	Operating Pressure	bar	3						
	Boiler Test Pressure	bar	4,5						
	Electrical Connection	-	230 Vac , 50 Hz						
	Recommended Fuel Types			Ø80x500 mm		Ø80x700 mm		Ø80x1000 mm 2xØ80x500mm	
				Hard Wood, 15% < Humidity < 30% *					
	Minimum Required Stack Draught	Pa	10						
	Boiler Gas Side Resistance	Pa	125	110	140	230	240	250	
	Boiler Water Side Pressure Drop	DT = 20 °C mbar	11,0	3,2	5,5	23,0	25,0	28,0	
	Fuel Filling Volume		lt	89	113	137	200	385	
			kg	30	40	50	70	135	
Approximately Combustion Period	h	5							
Required Accumulation Tank Volume	lt	1000	1500	2000	3000	4500	5500		
Airborne Noise Level	dB	< 60 dB							
MAIN DIMENSIONS	Boiler Width, W1	mm	600				650		
	Total Width with Cover Plates, W2	mm	650				700		
	Boiler Length, L1	mm	1060			1360	1635	1805	
	Boiler Height, H1	mm	1060	1210	1310	1360	1610		
	Total Height, H2	mm	1165	1315	1415	1465	1715		
	Stack Diameter, ØD1 (inner-outer)	mm	125-130		146-150		176-180		
	Height of Stack Connection, H6	mm	715	865	955	1005	1225		
	Water Content	lt	90	104	114	168	285	345	
	Approx. Empty Weight	kg	385	425	450	600	860	960	
	Hot Water Outlet Connection	Diameter, ØD2	inch	1 1/2"				2"	
		Position, H3	mm	1137	1287	1387	1437	1766	
		Position, L2	mm	590			890	1147	1317
	Water Inlet Connection	Diameter, ØD2	inch	1 1/2"				2"	
		Position, H4	mm	380				435	
Safety Cooling Heat Exchanger 15 °C, 2 bar cold water	Diameter, ØD3	inch	3/4"						
	Position, H5	mm	975	1125	1225	1275	1525		
Filling & Drain Connection	Diameter, ØD4	mm	1/2"						
EMISSION RATES	Flue Gas Temperature	°C	135	157	126	132	142	137	
	Average Mass Flow Rate of Solid Pollutants (dust)	mg/m ³	13	18	26	34	54	66	
POWER CONSUMPTIONS	Average Electricity Consumption	in stand-by	3						
		in full load, 100%	66	69	65	70	75	115	