

POLYHELD

HIGH EFFICIENCY LOW DUST

POLYHELD	Unit	400	600	800	1000	1250	1500	2000	2500	3000
Nominal output	kW	400	600	800	1000	1250	1500	2000	2500	3000
Net power range	kW	100 – 420	150 – 630	200 – 840	250 – 1050	315 – 1315	350 – 1575	500 – 2100	625 – 2625	750 – 3150
Fuel type woodchip		M20 - M45								
Fuel requirement**	kg/h	129	203	258	322	403	516	645	871	1115
	around m ³ /h	0,5	0,8	1,1	1,4	1,7	2,1	2,70	3,6	4,6
Fuel type pellet		Wood, straw*, sunflower*, miscanthus pellets*, etc.								
Fuel requirement***	kg/h	90	142	180	225	281	360	450	608	778
	approx. m ³ /h	0,14	0,21	0,27	0,34	0,43	0,55	0,68	0,92	1,18
Efficiency		up to 93%								

BOILER

Heat carrier		warm water (other heat carriers such as hot water, steam, thermal oils and air available upon request)								
Max. safe operation pressure	bar	6								
Max. safe operating temperature	°C	110								
Flow temperature	°C	< 105								
Min. return flow temperature	°C	70								

Electrical auxiliary power (model: Polytechnik Standard – with feeding screw, without waterside)

		400	600	800	1000	1250	1500	2000	2500	3000
		400V AC / 50Hz / 3P + N + PE								
Electrical connected load (indicative)	kVA	7,5	11	15	18	22	27	36	45	54
Electricity consumption at full load	kWhel per MWhth	< 12								

Start-up burners

Type of gas		natural gas, propane, biogas								
Flow pressure	mbar	200								
Installed burner capacity	kW	35	35	85	85	85	85	85	85	85

Water supply

Quality		drinking water								
Flow pressure	bar	2 – 6								
Connection value	m ³ /h	2	2	3	3	3	3	3	3	3

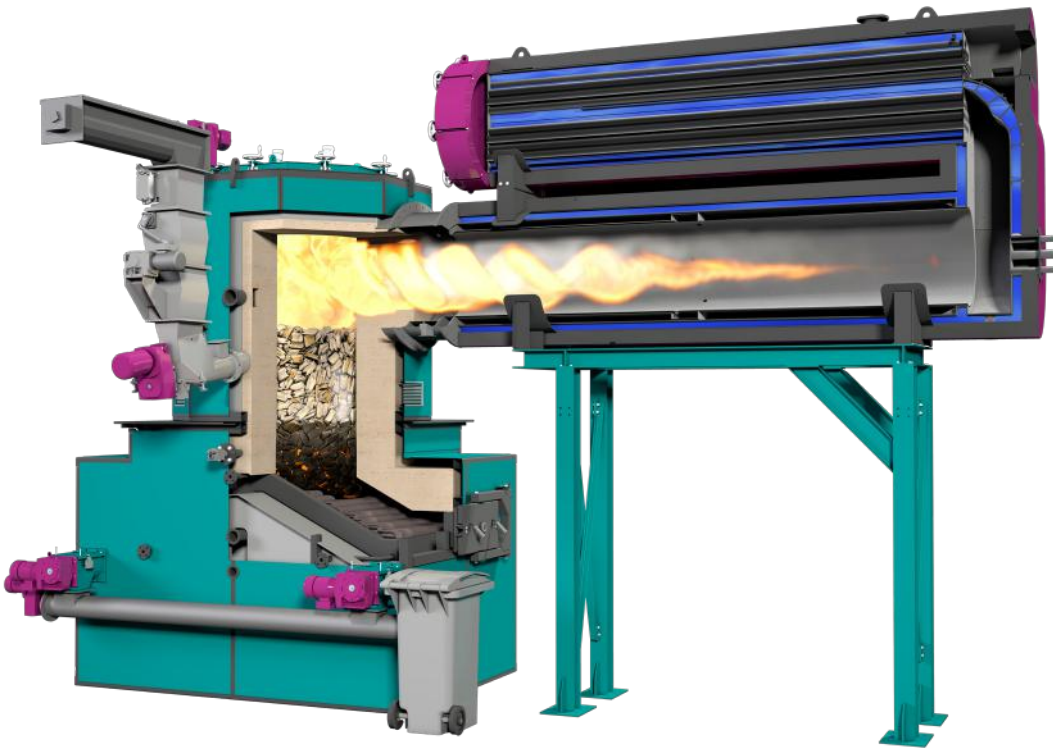
Guaranteed emissions (at 11% O₂, standard conditions)

Carbon monoxide	mg/Nm ³	< 250								
Nitrogen oxide NO _x (as NO ₂)	mg/Nm ³	< 250								
Dust emissions	mg/Nm ³	< 20								

* technical analysis-based data on request.

** in relation to M30 P45, A3.0 and N0,5

*** using wood pellets – quality grade A1



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Use a variety of fuels: residual materials from the wood and forestry industries and most woody fuels (with a water content of up to M45)

Efficiency: >92% (+5% compared to traditional burners)

NO_x: -25% compared to traditional burners

Dust: <20mg/Nm³; 11% O₂ (without additional emission purification)

Power range: 25-100%

Low maintenance costs

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