

# Technical data

PELLEMATIC®  
PE(K) 10 - 32 B

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ENGLISH



# Technical data

Information according to ecodesign EU regulation 2015/1189

Model designation	Pellematic					
	PE B 10	PE B 12	PE B 15	PE B 20	PE B 25	PE B 32
Manufacturer and contact details	ÖkoFEN Forschungs- und Entwicklungs Ges.m.b.H., Gewerbepark 1, 4133 Niederkappel, Austria					
Heat-up mode	Automatically					
Condensing boiler	no					
Solid fuel boiler with cogeneration system	no					
Combined heater	no					
Energy efficiency class	A+					
Energy efficiency index (EEI)	114	114	115	116	117	118
Seasonal performance factor for room heating in condensing mode $\eta_{son}$ (based on upper heating value)	83	83	83	83	84	84
Seasonal space heating energy efficiency $\eta_s$ (based on upper heating value)	80	80	80	80	81	81
Delivered useful heat at nominal heat power $P_n$ [kW]	10	12	15	20	25	32
Delivered useful heat at 30 % of the nominal heat power $P_p$ [kW]	3	3	5	6	8	10
<b>Fuel</b>						
Colorific value [kWh/kg]	$\geq 4,6$					
Bulk density [kg/m <sup>3</sup> ]	$\geq 600$					
Water content [weight %]	$\leq 10$					
Ash parts [weight %]	$\leq 0,7$					
Length [mm]	$\leq 40$					
Diameter [mm]	$6 \pm 1$					
<b>Annual space heating emissions</b>						
PM [mg/m <sup>3</sup> ]	$< 40$					
OGC [mg/m <sup>3</sup> ]	$< 20$					
CO [mg/m <sup>3</sup> ]	$< 500$					
NO [mg/m <sup>3</sup> ]	$< 200$					
<b>Auxiliary power consumption</b>						
Auxiliary power consumption at nominal heat power $e_{l_{max}}$ [W]	120					
Auxiliary power consumption at 30 % of nominal heat power $e_{l_{min}}$ [W]	36					
Standby auxiliary power consumption $P_{SB}$ [W]	7					

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<b>Water area</b>						
Water capacity - l	64	64	64	64	104	104
Flow / return connection union nut Ø - inch	1	1	1	1	5/4	5/4
Flow / return connection union nut Ø - DN	25	25	25	25	32	32
Water resistance at 10 K - mBar	54,7	95,2	150	220	284	376
Water resistance at 20 K- mBar	14,0	24,2	38	55	72	95
Boiler temperature - °C	65 - 90					
Minimum boiler temperature - °C	55					
Operating pressure maximum - Bar	3,5					
Test pressure - Bar	4,6					
<b>Flue gas area (Flue gas = F.g.)</b>						
Fire vault temperature [°C]	800 - 1100					
Need of draught rated power - mBar	0,08					
Need of draught partial load - mBar	0,03					
Flue gas temperature rated power - °C	160					
Flue gas temperature partial load - °C	100					
F.g. volume rated power at f.g.tem. - °C	18,9	24,2	30,4	40,6	51,1	65,8
F.g. volume partial load at f.g. tem. - °C	5,5	7,4	10,3	12,2	16,4	20,4
F.g. volume rated power at AGT - m <sup>3</sup> /h	21,9	28,6	37,6	50,2	63,2	81,4
F.g. volume partial load at AGT - m <sup>3</sup> /h	5,8	6,9	10,9	13	17,4	21,8
Flue gas tube diameter - mm	130	130	130	130	150	150
Chimney diameter	<b>as per chimney calculation</b>					
Chimney construction	<b>Steel or ceramic lined, damp resistant</b>					
<b>Weight</b>						
Overall Weight packing included - kg	405				490	
Overall Weight - kg	370				450	
Boiler Body Weight - kg	230				300	
Internal ash pan volume - kg	25				30	
External ash box volume - kg	25					
<b>Electrical Components</b>						
Connection value - suction system	<b>230 VAC, 50Hz, 16A</b>					
Anschlusswert - auger system	<b>230 VAC, 50Hz, 13A</b>					
Main Drive - W	40					
Drive Motor - W	250 / 370					
Suction Turbine - W	1400					
Combustion Air Blower - W	62					
Flue gas fan - W	25					

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Electrical Ignition - W	250					
Cleaning Motor - W	40					
Motor External Ash Box - W	40					
Cleaning Motor - W	40					
Flame Return Gate - W	5					
Protection class	IP20					

**Note:**

Further technical data and results of the type test available on request from your ÖkoFEN contact.



## Author

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