

TECHNICAL INFORMATION

Model identifier (TYPE):	PelTec II Lambda 12	PelTec II Lambda 18	PelTec II Lambda 24	PelTec II Lambda 36	PelTec II Lambda 48	
Useful heat output at rated heat output - P _n (kW)	12	18	24	36	48	
Useful heat output at 30 % of rated heat output - P _p (kW)	3.6	5.4	7.2	10.8	14.4	
Useful efficiency at rated heat output (Net calorific value "NCVar") (%)	93.8	93.9	94.1	92.8	91.5	
Useful efficiency at 30 % of rated heat output (Net calorific value "NCVar") (%)	90.7	92.1	93.5	94.2	94.9	
Useful efficiency at rated heat output (Gross calorific value "GCVar") - η _n (%)	86.4	86.5	86.7	85.5	84.3	
Useful efficiency at 30 % of rated heat output (Gross calorific value "GCVar") - η _p (%)	83.4	84.9	86.1	86.8	87.4	
Heat output range (kW)	3.6-12	5.4-18	7.2-24	10.8-36	14.4-48	
Boiler class	5					
Required chimney underpressure (mbar)	0,02					
Water amount in boiler (l)	78	76	100	108	135	
Exhaust gas temperature at nominal heat output (°C)	130					
Exhaust gas temperature at minimal heat output (°C)	100					
Exhaust mass flow at nominal heat output (g/s)	15.16	18.97	22.78	35.27	47.75	
Exhaust mass flow at minimal heat output (g/s)	5.82	6.91	8.0	13.1	18.05	
Operating (combustion) time (h)	-					
Min. inlet water tem. at the boiler supply water connection (°C)	-					
Setting range for temperature controller (°C)	65-90					
Minimum return flow temperature (°C)	> 0°C					
Heat loss when the boiler is OFF (W)	-					
Boiler resistance on water side at nominal output *** (mbar)	0.025	0.055	0.095	0.205	0.37	
Fuel size (mm)	Ø6 x 50					
Fuel loading chamber capacity (l)	0.96	0.96	1.59	2.56	2.56	
Fuel loading chamber dimensions (mm)	465x300x300	650x300x300	650x300x300	620x385x385	770x385x385	
Combustion chamber volume (l)	41.85	58.5	58.5	91.90	114.13	
Combustion chamber type	underpressure					
Pellet tank volume (l)	340	340	340	340	340	
Ash box volume (left/right) (l)	9.9 / -	6.5 / 9.9	9.9 / 9.9	11.6 / 17.7	13 / 19.6	
Auxiliary power requirements at Q _N (W)	1050	1050	1050	1100	1100	
Auxiliary power requirements at Q _{min} (W)	-					
Supply voltage (V~)	230					
Frequency (Hz)	50					
Boiler body dimensions	Length (A) (mm)	1100	1090	1050	1150	1150
	Width (B) (mm)	1210	1435	1380	1465	1465
	Height (C) (mm)	1560	1560	1560	1560	1560
Total mass - (boiler with tank and screw feeder) (kg)	328	349	402	455	478	
Max. operating overpressure (bar)	2.5					
Test pressure (bar)	5					
Max. operating temperature (°C)	90					
Flue gas tube - external diameter (mm)	130	130	130	150	150	
Dimension D*/D** (mm)	1515 / 1230	1040 / 755	1140 / 850	1155 / 835	1305 / 935	
Dimension E (mm)	125	120	120	125	125	
Dimension F (mm)	525	525	520	520	670	
Boiler connections	Main/return flow (thread) (G)	5/4"	5/4"	5/4"	5/4"	
	Filling/drainage (thread) (G)	1/2"				
Heating appliance working	with fan					
Heating appliance working	under non-condensing conditions					
Stoking mode	automatic					
It is recommended that the boiler be operated with a hot water storage tank of a volume of at least (l)	240	360	480	720	960	
Condensing boiler	no					
Solid fuel cogeneration boiler	no					
Combination boiler	no					
Preferred fuel	compressed wood in the form of pellets: A1 (EN ISO 17225 - 2)					
Seasonal space heating energy efficiency - η _s (%)	79	80	82	83	83	
Seasonal space heating emissions for preferred fuel ****	PM mg/m ³ (10% O ₂)	19	21	23	22	21
	OGC mg/m ³ (10% O ₂)	5	3	2	2	2
	CO mg/m ³ (10% O ₂)	167	117	67	90	113
	NO _x mg/m ³ (10% O ₂)	138	138	138	139	141
Auxiliary electricity consumption	At rated heat output - el _{max} (kW)	0.055	0.066	0.076	0.086	0.096
	At 30 % of rated heat output - el _{min} (kW)	0.039	0.039	0.039	0.043	0.046
	Of incorporated secondary emission abatement equipment (kW)	Not applicable				
	In standby mode - P _{SB} (kW)	0.009				
Boiler category	1					

* possible way of installing the fan (output is directed up)

** possible way of installing the fan (output is directed sideways)

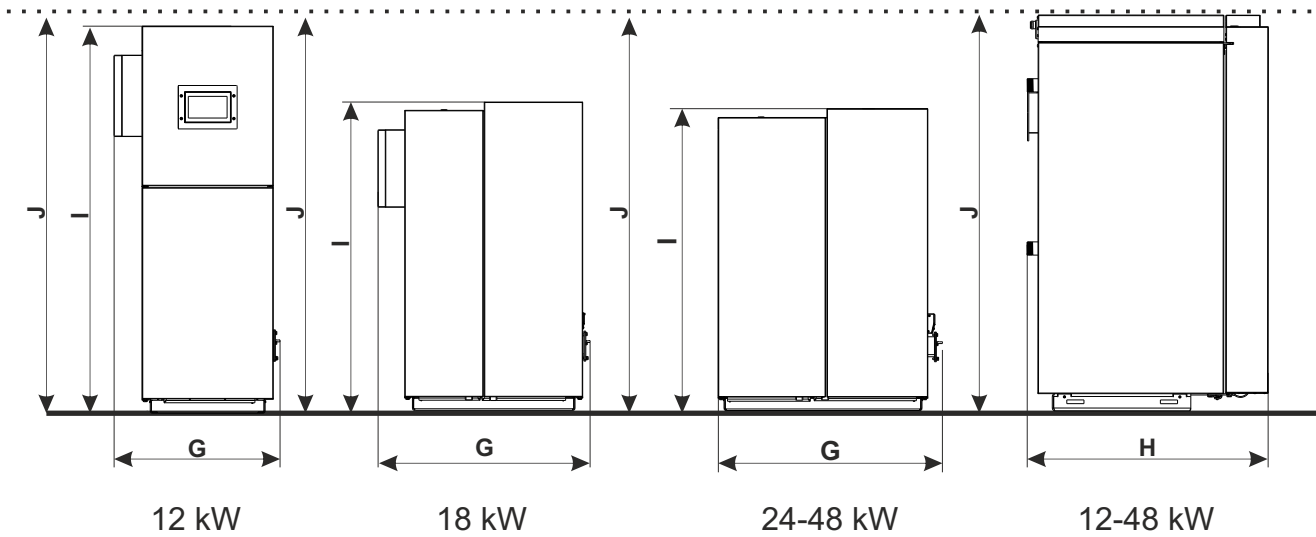
*** dT=20°C

**** PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NO_x = nitrogen oxides

Contact details: Centrometal d.o.o. - Glavna 12, 40306 Macinec, Croatia

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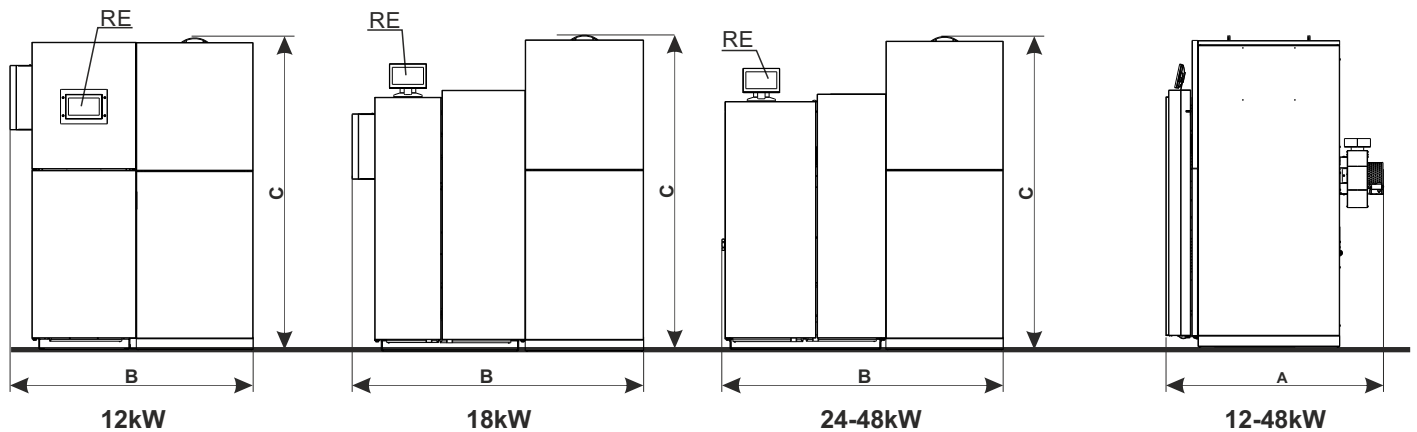
Dimensions of the boiler to enter the room	12 kW	18 kW	24 kW	36 kW	48 kW
Width (G)	660	880	855	945	945
Depth (H)	760	760	740	840	840
Height (I)	1560	1290	1270	1270	1420
Min. room height for turbulators removing (J)	1900	1700	1700	1700	2000



BKU - Boiler control unit box
DP - Flue gas tube
FC - Flexible PVC tube
PE - Connection for expansion vessel
PG - Pump group
PLV - Boiler main flow
PP - Charge / Discharge
PT - Pellet feeder (transporter)

PVV - Boiler return flow
RE - Boiler control unit screen (7")
RP - Pellet level sensor
SG¹ - Safety airvent group (not included in delivery)
SP - Pellet tank
TU - Temperature sensor tube (probe) (return and main flow)
VE - Fan (fan output can be mounted in any directions)

Front view



TECHNICAL INFORMATION

Model identifier (TYPE): PelTec II Lambda		69 kW	96 kW	
Useful heat output at rated heat output - Pn	(kW)	69	96	
Useful heat output at 30 % of rated heat output - Pp	(kW)	20.7	28.8	
Useful efficiency at rated heat output (Net calorific value "NCVar")	(%)	92.0	92.7	
Useful efficiency at 30 % of rated heat output (Net calorific value "NCVar")	(%)	93.9	92.7	
Useful efficiency at rated heat output (Gross calorific value "GCVar") - η _n	(%)	84.7	85.4	
Useful efficiency at 30 % of rated heat output (Gross calorific value "GCVar") - η _p	(%)	86.5	85.4	
Heat output range	(kW)	20.7-69	28.8-96	
Boiler class		5		
Required chimney underpressure	(mbar)	0,02		
Water amount in boiler	(l)	190	205	
Exhaust gas temperature at nominal heat output	(°C)	130		
Exhaust gas temperature at minimal heat output	(°C)	100		
Exhaust mass flow at nominal heat output	(g/s)	59.05	73.57	
Exhaust mass flow at minimal heat output	(g/s)	23.85	31.34	
Operating (combustion) time	(h)	-		
Minimal inlet water temperature at the boiler supply water connection	(°C)	-		
Setting range for temperature controller	(°C)	65-90		
Minimum return flow temperature	(°C)	> 0°C		
Heat loss when the boiler is OFF	(W)	-		
Boiler resistance on water side at nominal output ***	(mbar)	0.17	0.32	
Fuel size	(mm)	Ø6 x 50		
Fuel loading chamber capacity	(l)	4	5.4	
Fuel loading chamber dimensions	(mm)	770x385x385	770x450x410	
Combustion chamber volume	(l)	129.26	145.33	
Combustion chamber type	(mm)	underpressure		
Pellet tank volume	(l)	430		
Ash box volume (left/right)	(l)	24.5 / 19.6	29 / 25	
Auxiliary power requirements at Q _N	(W)	1300		
Auxiliary power requirements at Q _{min}	(W)	-		
Supply voltage	(V~)	230		
Frequency	(Hz)	50		
Boiler body dimensions	Length (A)	(mm)	1220	1290
	Width (B)	(mm)	1940	1965
	Height (C)	(mm)	1590	1590
Total mass - (boiler with tank and screw feeder)	(kg)	740	835	
Max. operating overpressure	(bar)	2.5		
Test pressure	(bar)	5		
Max. operating temperature	(°C)	90		
Flue gas tube - external diameter	(mm)	200		
Dimension D*/D**	(mm)	1375 / 1305		
Dimension E	(mm)	180		
Dimension F	(mm)	705		
Boiler connections	Main/return flow (thread)	(G)	6/4"	
	Drainage (thread)	(G)	1/2"	
Heating appliance working		with fan		
Heating appliance working		under non-condensing conditions		
Stoking mode		automatic		
It is recommended that the boiler be operated with a hot water storage tank of a volume of at least	(l)	1380	1920	
Condensing boiler		no		
Solid fuel cogeneration boiler		no		
Combination boiler		no		
Preferred fuel		compressed wood in the form of pellets: A1 (EN ISO 17225 - 2)		
Seasonal space heating energy efficiency - η _s	(%)	83	82	
Seasonal space heating emissions for preferred fuel ***	PM	mg/m ³ (10% O ₂)	20	18
	OGC	mg/m ³ (10% O ₂)	3	1
	CO	mg/m ³ (10% O ₂)	110	107
	NOx	mg/m ³ (10% O ₂)	139	136
Auxiliary electricity consumption	At rated heat output - el _{max}	(kW)	0.098	0.100
	At 30 % of rated heat output - el _{min}	(kW)	0.059	0.075
	Of incorporated secondary emission abatement equipment	(kW)	Not applicable	
	In standby mode - PSB	(kW)	0.009	0.009
Boiler category		1		

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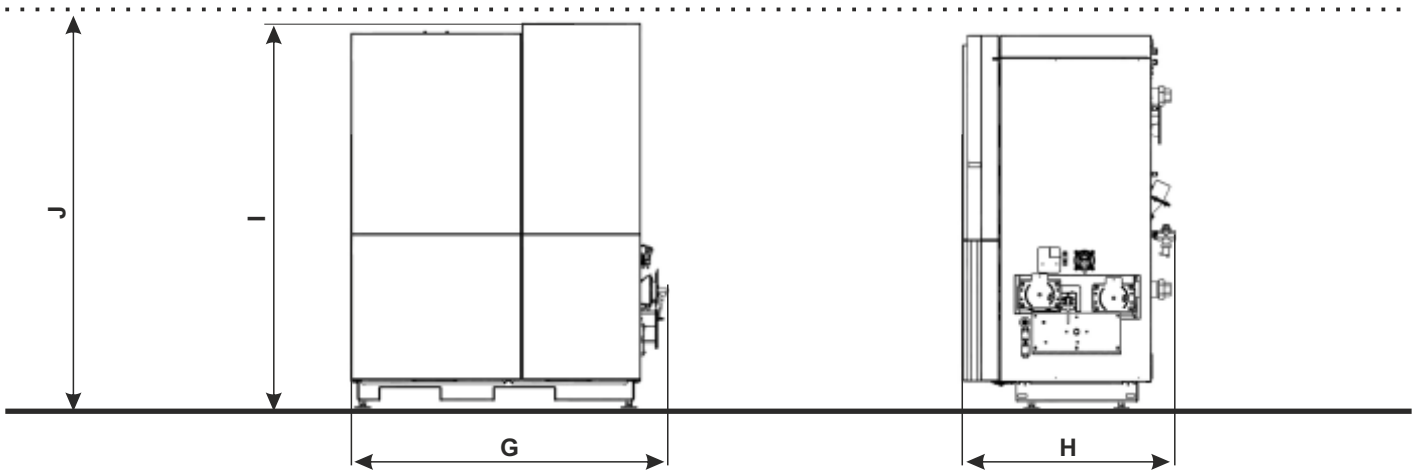
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Dimensions of the boiler to enter the room

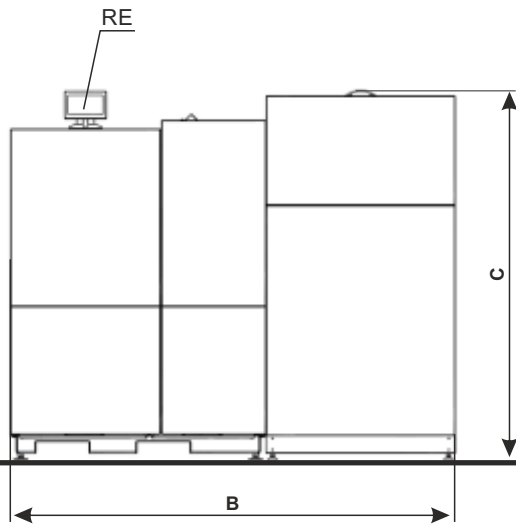
	69 kW	96 kW
Width (G)	1180	1210
Depth (H)	790	865
Height (I)	1480	1480
Min. room height for turbulators removing (J)	1950	1950



BKU - Boiler control unit box
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PVV - Boiler return flow
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SG¹ - Safety airvent group (not included in delivery)
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TU - Temperature sensor tube (probe) (return and main flow)
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Front view



Side view

