TECHNICAL DATA

Type: PelTec-Compact			12 kW	18 kW	24 kW
Useful heat output at rated heat output - Pn		(kW)	12	18	24
Useful heat output at 30 % of rated heat output - Pp		(kW)	3.6	5.4	7.2
Useful efficiency at rated heat output (Net calorific value "NCVar")		(%)	94,5	94,5	94,4
Useful efficiency at 30 % of rated heat output (Net calorific value "NCVar")		(%)	91,7	91,9	92,1
Useful efficiency at rated heat output (Gross calorific value "GCVar") - ηn		(%)	88,1	88,1	88,0
Useful eff. at 30 % of rated heat output (Gross calorific value "GCVar") - ηp		(%)	85,5	85,7	85,8
Heat output range		(kW)	3.6-12	5.4-18	7.2-24
Boiler class			5		
Required chimney underpressure		(mbar)	0,02		
Water amount in boiler		(l)	61	91	91
Exhaust gas temperature at nominal heat output		(°C)	80-130		
Exhaust gas temperature at minimal heat output		(°C)	65-120		
Exhaust mass flow at nominal heat output		(g/s)	15.16	18.97	22.78
Exhaust mass flow at minimal heat output		(g/s)	5.82	6.91	8.0
Operating (combustion) time		(h)	6		
Setting range for temperature controller		(°C)	65-90		
Minimum return flow temperature		(°C)	> 0°C		
Boiler resistance on water side at nominal output		(mbar)	0,030	0,050	0,100
Fuel size		(mm)	Ø6 x 50		
Fuel loading chamber capacity		(l)	0,62	0,98	2,59
Fuel loading chamber dimensions		(mm)	680x210x210	680x260x260	680x260x260
Combustion chamber volume		(l)	29,2	43,5	43,5
Combustion chamber type			underpressure		
Pellet tank volume		(l)	47,7		
Ash box volume		(l)	11,5	17,5	17,5
Maximum electrical input		(W)	1960		
Auxiliray power requirements at QN		(W)	81	116	116
Auxiliray power requirements at Qmin		(W)	65	72	72
Supply voltage		(V~)	230		
Frequency		(Hz)	50		
Total mass - (boiler with tank and screw feeder)		(kg)	380	440	440
Max. operating overpressure		(bar)	3,0		
Test pressure		(bar)	6,0		
Max. operating temperature		(°C)	90		
Flue gas tube - external diameter		(mm)	100	130	130
Boiler connections	Main/return flow (thread)	(Rp)	6/4"		
	Emptying (Drainage) (thread)	(Rp)	½"		
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
Condensing boiler			no		
Solid fuel cogeneration boiler			no		
Combination boiler			no		
Preferred fuel			compressed wood in the form of pellets: A1 (EN ISO 177225 - 2)		
Seasonal space heating energy efficiency - ηs		(%)	79	80	81
Seasonal space heating emissions for preferred fuel *	PM	mg/m³ (10% O2)	20	23	25
	OGC	mg/m³ (10% O2)	3	2	2
	CO	mg/m³ (10% O2)	124	102	80
	NOx	mg/m³ (10% O2)	142	144	146
Auxiliary electricity consumption	At rated heat output - elmax	(kW)	0,081	0,034	0,160
	At 30 % of rated heat output - elmin	(kW)	0,065	0,070	0,072
	Of incorporated secondary emission abatement equipm.	(kW)	Not applicable		
	In standby mode - PSB	(kW)	0,004		

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

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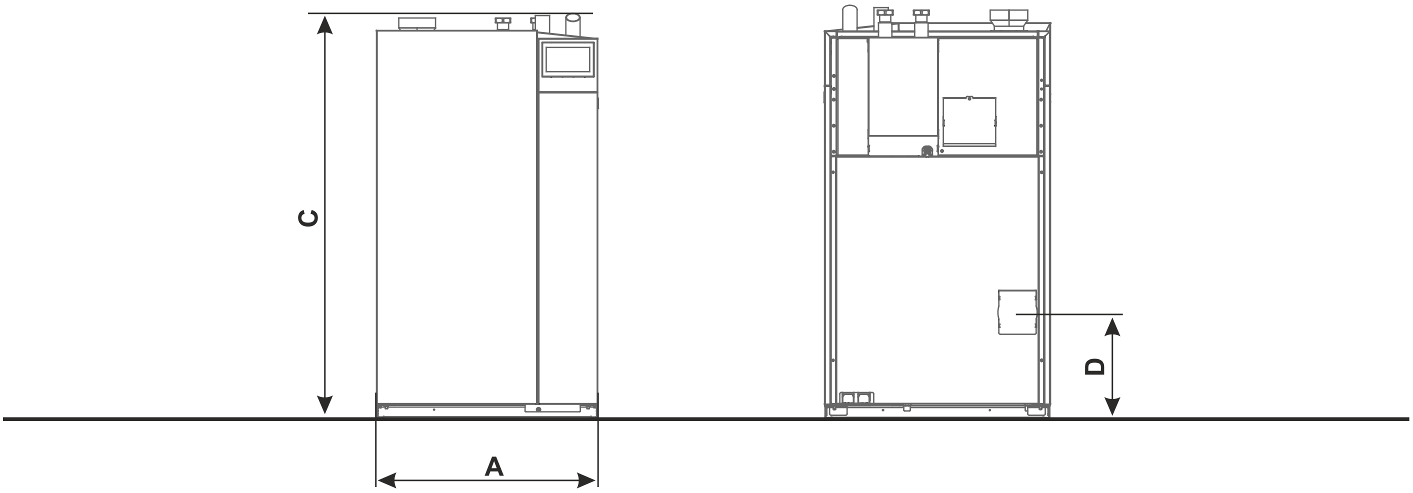
Boiler dimensions		**12 kW**	**18 kW**	**24 kW**
Width	(A)	680	780	780
Lenght	(B)	1135	1205	1205
Height	(C)	1430	1430	1430
Dimension (behind the lid is the fresh air inlet tube)	(D)	368	368	368

PelTec-Compact 12-24

Front view **Back view**



Side view