

Technical data

**PELLEMATIC®
PE(S) 10 — 56 kW**

ENGLISH



Technical data

Here you can find the technical data according to the boiler type.

Boiler - Type	PE(S) 10	PE(S) 12	PE(S) 15	PE(S) 20	PE(S) 25	PE(S) 32	PES 36	PES 48	PES 56
Boiler-rated power [kW]	10	12	15	20	25	32	36	48	56
Boiler-partial load [kW]	3,0	3,4	5	6	8	10	11	15	17
Energy efficiency class	A+								
Energy efficiency index (EEI)	117,77	118	118,47	119,41	120,4-6	121,73	121,-42	120,-53	119,-82
Seasonal space heating energy efficiency η_s	79,3	79,57	80,13	80,89	81,72	82,64	82,-45	81,88	81,3-9
Boiler efficiency rated power [%]	92 - 95								
Boiler efficiency partial power [%]	91 - 94								
Water area									
Water capacity [litres]	64	64	64	64	104	104	135	135	135
Water supply/return \varnothing [inch]	1	1	1	1	5/4	5/4	2	2	2
Water supply/return \varnothing [DN]	25	25	25	25	32	32	50	50	50
Water resistance at 10K [mBar]	54,7	95,2	150	172	178	186	38,9	51,9	60,5
Water resistance at 20K [mBar]	14,0	24,2	38	44	46	49	10,4	13,9	16,2
Boiler temperature [°C]	65-90								
Boiler input temp. minimum [°C]	55								
Operating pressure maximum [Bar]	3								
Test pressure [Bar]	4,6								
Flue gas area (Flue gas = F.g.)									
Fire vault temperature [°C]	800-1100								
Need of draught rated power [mBar]	0,08								
Need of draught partial load [mBar]	0,03								
Flue gas temp. rated power [°C]	160								
Flue gas temp. partial load [°C]	100								
F.g. volume rated power at f.g.tem. [kg/h]	20,3	24,2	30,4	39,2	48,0	60,4	69,0	94,7	111,9
F.g. volume partial load at f.g. tem. [kg/h]	6,4	7,9	10,3	14,6	19,0	25,2	27,3	33,4	37,6
F.g. volume rated power at AGT [m ³ /h]	15,6	18,6	23,4	30,2	37,0	46,5	53,1	72,8	85,8
F.g. volume partial load at AGT [m ³ /h]	4,9	6,1	8,0	11,2	14,6	19,4	21,0	25,7	28,9
Flue gas tube diameter [mm]	130	130	130	130	150	150	180	180	180
Chimney diameter	as per chimney calculation								
Chimney construction	Steel or ceramic lined, damp resistant								

T – depth of boiler casing	814	814	814	814	870	870	990	990	990
V – depth of burner casing	508	508	508	508	508	508	508	508	508
E – flue gas tube connection height	606	645	645	645	844	844	1040	1040	1040
A – height of inlet/return	905	905	905	905	1110	1110	1320	1320	1320
R – diameter of flue gas tube	130	130	130	130	150	150	180	180	180

Boiler Weight

Dimensions in kg	PE(S) 10	PE(S) 12	PE(S) 15	PE(S) 20	PE(S) 25	PE(S) 32	PES 36	PES 48	PES 56
Overall Weight packing included	385	385	385	385	470	470	650	650	650
Overall Weight	350	350	350	350	430	430	605	605	605
Boiler Body Weight	240	240	240	240	300	300	422	422	422

Minimum clearance dimensions required

Note:

To install the heating system properly and ensure economical operation, you need to make sure that minimum clearance dimensions indicated below are observed when setting up the boiler. **In addition, make sure that legislation in your country is complied with relating to the minimum clearance of the flue gas tube.**

	a	Min. clearance of flue gas connection from wall or part of building	450 mm
	b	Min. clearance of side of boiler from wall or part of building	50 mm
	c	Min. clearance of front of boiler from wall or part of building	700 mm
	d	Min. clearance of side of burner from wall or part of building	300 mm
	e	Minimum ceiling height	2000 mm
Note: Legislation in your country must be observed!			