

Technical data

Condensing boiler
technology
36 -56 kW

ENGLISH



Technical data Pellematic Plus

Designation		PE(S)K 12	PE(S)K 15	PE(S)K 20	PE(S)K 25	PE(S) 32
Boiler-rated power	kW	12	15	20	25	32
Boiler-partial load	kW	3,4	5	6	8	10
Energy efficiency class		A++				
Energy efficiency index (EEI)		124,8	126,92	128,34	130,12	132,16
Seasonal space heating energy efficiency η_s		87,07	85,97	88,98	90	91
Boiler efficiency rated power	%	100	100,2	101,3	102	102,8
Boiler efficiency partial power	%	98	98,2	99,3	100,5	102,3
Water area						
Water capacity	l	66	66	66	104	104
Water supply/return - dimensions	Zoll	1	1	1	5/4	5/4
Water supply/return - dimensions	DN	25	25	25	32	32
Water resistance at 10K	mBar	98	156	224	287	376,4
Water resistance at 20K	mBar	25	40	57	72	95
Boiler temperature	°C	65-90				
Boiler input temperature minimum	°C	55				
Operating pressure maximum	Bar	3				
Test pressure	Bar	4,6				
Flue gas area (=F.g.)						
Fire vault temperature	°C	900 - 1100				
Need of draught ra pow/pa load	mBar	0,0				
Flue gas temp ra pow/pa load	°C	30 - 40				
F.g. volume rated power at f.g. tem.	kg/h	22,5	28	37	46,1	58,4
F.g. volume partial load at f.g. tem.	kg/h	6,5	9,6	11,1	15	18,4
F.g. volume rated power at AGT	m ³ /h	19,8	24,7	32,6	40,5	51,5
F.g. volume partial load at AGT	m ³ /h	5,7	8,4	9,8	13,2	16,2
Flue gas tube diameter	mm	130	130	130	130	130
Chimney diameter	as per chimney calculation, EN 13384-1					
Chimney construction	qualified for condensing - solid fuel - damp resistant- qualified for negative draft (N1), pressure tight up to 0,2mbar					
Fuel	Pellets made of 100% natural wood as per EN 14961-2, class A1					
Colorific value		≥ 16,5 MJ/kg or ≥ 4,6 kWh/kg				
Bulk density	kg/m ³	min. 600				
Water content	Wei.%	max. 10				

Designation		PE(S)K 12	PE(S)K 15	PE(S)K 20	PE(S)K 25	PE(S) 32
Ash parts	Wei.%	max. 0,7				
Length	mm	max. 40				
Diameter	mm	6 ±1				
Weight						
Overall Weight packing included	kg	435	435	520		
Overall Weight	kg	400	400	480		
Boiler Body Weight	kg	230	230	300		
Internal ash pan volume	l	25	25	25	30	30
External ash box volume	kg	25				
Electrical Components						
Connection value	230 VAC, 50Hz, 16A					
Main Drive	W	40				
Drive Motor	W	250 / 370				
Suction Turbine	W	1400				
Combustion Air Blower	W	62				
Flue gas fan	W	25				
Electrical Ignition	W	250				
Cleaning Motor	W	40				
Motor External Ash Box	W	40				
Motor Burner plate cleaning system	W	40				
Flame Return Gate	W	5				



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