

Technical data

PELLEMATIC® Smart
4 – 14 kW

ENGLISH



Technical data PELLEMATIC Smart 4-8kW

Designation		Smart 4	Smart 6	Smart 8
Boiler-rated power	kW	3,9	6,0	7,8
Boiler-partial load	kW	System always runs at rated load		
Boiler efficiency rated power	%	100,0	103,0	106,1
Energy efficiency class		A++		
Energy efficiency index (EEI)		126,96	131,87	136,92
Seasonal space heating energy efficiency η_s		89	92	95
Boiler temperature	°C	weather-controlled		
Min. boiler temperature	°C	30° - 70°		
Combustion chamber temperature	°C	400° - 700°		
Water area				
Water capacity	l	605		
Water supply/return - dimensions	Inch	1" (internal thread)		
Water supply diameter	Inch	1" (internal thread)		
Drinking water heat exchanger	l	0,8		
Solar plate heat exchanger	l	2		
Freshwater module - max. performance at operating point A	l/min	21		
Operating point A	°C	10-45/60 (cold water temp. - DHW temp. / flow temp.)		
Max. operating pressure				
Test pressure	Bar	4,6		
Heating	Bar	3		
Fresh water module	Bar	6		
Solar plate heat exchanger	Bar	6		
Flue gas area				
Available dépression flue gas fan	mBar	0,05 ¹⁾		
Flue gas temperature rated power	°C	35° - 50°		
Flue gas mass flow rated power	kg/h	9,5	12,8	15,8
Flue gas volume rated power	m ³ /h	7,3	9,8	12,2
Flue gas tube diameter (at the boiler)	mm	132 (inside)		
Flue pipe connecting height	mm	490		
Condensation pipe connecting height	mm	175		
Flue diameter	as per flue calculation, min. 130mm			
Flue constitution	qualified for condensing - solid fuel - damp resistant - N1 or P1 (as per flue calculation)			
Connection pipe to flue	Stainless steel design, resistant to condensate, moisture and corrosion, min. 20 pascal over pressure resistant			

Dimensions		
Width - total	mm	1188
Height - total	mm	1955
Depth - total	mm	1030
Maximum unit dimension	mm	790
Tilt height	mm	1970
Weights		
Weight packed on the pallet with wooden frame	kg	510
Weight without water, fully equipped, not packed	kg	490
Gross weight without additions, not packed	kg	205
Volume hopper	kg	32
Weight ash pan empty	kg	4,2
Weight ash pan full	kg	-10
Electrical Components		
Main Drive	W	40
Drive Motor	W	40/250/370
Suction Turbine	W	1400
Flue gas fan	W	72
Electrical Ignition	W	250
Cleaning Motor	W	40
Thermal insulation		
Glass wool - lambda value 0,035 W/mK	mm	100
Fuel		
	Pellets made of 100% natural wood according to EN ISO 17225-2, class A1	
Colorific value	MJ/kg	≥ 16,5
	kWh/kg	≥ 4,6
Bulk density	kg/m ³	≥ 600
Water content	wt%	≤ 10
Ash parts	wt%	≤ 0,7
Length	mm	≤ 40
Diameter	mm	6 ±1



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