

Technical data

downstream Condensing
heat exchanger
36 -56 kW

ENGLISH



Technical data Pellematic Maxi with condensing boiler technology

Designation		PES36 + 24325	PES48 + 24325	PES56 + 24325
Boiler-rated power	kW	41	55	64
Boiler-partial load	kW	15	17	19,2
Energy efficiency class		A++		
Energy efficiency index (EEI)		132,08	131,99	131,84
Seasonal space heating energy efficiency η_s		91	90	90
Boiler efficiency rated power condensation mode HHV	%	95,1	94,4	94,2
Boiler efficiency rated power rated power condensation mode LHV	%	102,7	102,7	102,7
Boiler efficiency rated power rated power condensation mode HHV	%	94,4	93,7	93,4
Boiler efficiency partial power rated power condensation mode LHV	%	102,2	102,0	101,9
Water area				
Water capacity	l	135 + 24	135 + 24	135 + 24
Water supply/return - dimensions	Inch	2	2	2
Water supply/return - dimensions	DN	50	50	50
Water resistance at 10K	mBar	90	123	145
Water resistance at 20K	mBar	43	48	53
Boiler temperature	°C	65-90		
Boiler input temperature minimum	°C	55		
Operating pressure maximum	Bar	3		
Test pressure	Bar	4,6		
Flue gas area				
Fire vault temperature	°C	500 - 900		
Rated power / partial power - Need of draught	mBar	0,1		
Flue gas temp ra pow/pa load	°C	45 - 80 40 - 80		
F.g. volume rated power at f.g. tem.	kg/h	97,5	113,2	121,1
F.g. volume partial load at f.g. tem.	kg/h	31	34,9	39
F.g. volume rated power at AGT	m³/h	75	87,1	93,2
F.g. volume partial load at AGT	m³/h	24	27,1	30,2
Flue gas tube diameter (boiler)	mm	182,5	182,5	182,5
Chimney diameter	as per chimney calculation, EN 13384-1, min. 180			
Chimney construction	qualified for condensing - solid fuel - damp resistant-qualified for negative draft (N1), pressure tight up to 0,2mbar			

Designation		PES36 + 24325	PES48 + 24325	PES56 + 24325
Fuel	Pellets made of 100% natural wood as per EN 14961-2, class A1			
Colorific value	MJ/kg	≥ 16,5		
Colorific value	kWh/kg	≥ 4,6		
Bulk density	kg/m³	> 600		
Water content	Gew.%	< 10		
Ash parts	Gew.%	< 0,7		
Length	mm	< 40		
Diameter	mm	6 ±1		
Weight				
Overall Weight packing included	kg	780		
Overall Weight	kg	734		
Boiler Body Weight	kg	330		
Internal ash pan volume	l	30		
External ash box volume	kg	25		
Electrical Components				
Connection value - Suction system	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	72		
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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