

TECHNICAL AND OPERATION PARAMETERS OF SAS AGRO-ECO BOILER

No.	Parameter	Unit	SAS AGRO-ECO							
			17	23	29	36	42	48	58	
1.	Boiler power	kW	17	23	29	36	42	48	58	
2.	Boiler heated surface	m ²	1.5	2.0	2.5	3.0	3.5	4.0	5.0	
3.	Boiler efficiency	%	87,7 ÷ 88,8							
4.	Fuel consumption *	kg/h	1,9	2,6	3,3	4,1	4,8	5,5	6,6	
5.	Fuel storage bin capacity	dm ³ kg	120 ~75 ÷ 85	120 ~75 ÷ 85	140 ~90 ÷ 100	180 ~115 ÷ 130	210 ~135 ÷ 150	230 ~145 ÷ 165	280 ~180 ÷ 200	
6.	Exhaust temperature	l	90	100	120	140	160	190	260	
7.	Boiler water capacity	kg	440	490	520	610	650	780	890	
8.	Boiler weight (with no water)	mbar	0,30							0,45
9.	Required chimney draught	°C	90 ÷ 210							
10.	Maximal allowable operating pressure	bar	1,5							
11.	Maximal allowable working temperature	°C	85							
12.	Recommended heating water working temperature	°C	60 ÷ 80							
13.	Minimal return water temp.**	°C	55							
14.	Power supply	V/Hz	~230 / 50							
15.	Power consumption ***	W	up to 250 (+ 900 at start burning)							
16.	Boiler dimensions	A	mm	1490	1590	1590	1660	1780	1850	1900
		A1	mm	840	940	940	1020	1020	1090	1140
		B	mm	550	550	620	620	670	670	740
		B1	mm	450	450	520	520	570	570	640
		H**)	mm	1590	1590	1630	1630	1630	1630	1630
		H1**)	mm	1420	1420	1420	1440	1520	1540	1540
	Combustion chamber dimensions*)	C	mm	260	360	360	430	430	450	500
		C1	mm	180	180	180	180	180	250	250
		D	mm	520	520	520	520	620	620	620
17.	Smoke conduit diameter	mm	Ø160	Ø180	Ø200	Ø200	Ø220	Ø220	Ø250	
18.	Connector pipe diameter (supply/return)	"	G 1¼	G 1½			G 2			
19.	Minimal chimney height	m	6	7	8		9		10	
20.	Minimal chimney dimensions/diameter	cm x cm mm	18x18 Ø210	20x20 Ø220	21x21 Ø240	22x22 Ø250	25x25 Ø280	25x25 Ø280	26x26 Ø320	

* when working at average load (50% of rated power)/ rated load

** if manufacturer recommendations regarding heating water temperature ranges are not observed, boiler must be obligatory connected to central heating system equipped with three- or four - ways valve, protecting against so called „ low temperatures corrosion”

*) it does apply combustion on a traditional grate

**) if the regulation boiler's footnotes are used, (it do not apply to boilers of power 36 kW and higher) dimension increase from min. 29 mm to max. 56 mm

*** temporary power consumption

No.	Parameter	Unit	SAS AGRO-ECO				
1.	Boiler power	kW	68	78	90	100	
2.	Boiler heated surface	m ²	6.0	7.0	8.0	9.0	
3.	Boiler efficiency	%	87,7 ÷ 88,8				
4.	Fuel consumption *	kg/h	7,2	8,3	9,6	10,7	
5.	Fuel storage bin capacity	dm ³	320	360	380	410	
		kg	-200 ÷ 240	-240 ÷ 260	-260 ÷ 280	-280 ÷ 310	
6.	Exhaust temperature	l	350	420	510	620	
7.	Boiler water capacity	kg	930	1100	1220	1310	
8.	Boiler weight (with no water)	mbar	0,55				
9.	Required chimney draught	°C	90 ÷ 210				
10.	Maximal allowable operating pressure	bar	1,5				
11.	Maximal allowable working temp.	°C	85				
12.	Recommended heating water working temperature	°C	60 ÷ 80				
13.	Minimal return water temp.**	°C	55				
14.	Power supply	V/Hz	~230 / 50				
15.	Power consumption ***	W	up to 270 + (900 at start burning)				
16.	Boiler dimensions	A	mm	1990	2090	2190	2240
		A1	mm	1180	1180	1280	1280
		B	mm	740	780	780	780
		B1	mm	640	680	680	680
		H	mm	1740	1810	1810	1920
		H1	mm	1610	1610+c*	1610+c*	1720+c*
	Combustion chamber dimensions	C	mm	500	500	590	590
		C1	mm	250	250	280	280
		D	mm	650	650	650	650
17.	Smoke conduit diameter	mm	Ø 260	Ø 270	Ø 280	Ø 300	
18.	Connector pipe diameter (supply/return)	"	G 2½				
19.	Minimal chimney height	m	10	11		12	
20.	Minimal chimney dimensions/diameter	cm x cm mm	26x26 Ø320	28x28 Ø360	28x28 Ø360	29x29 Ø380	

* when working at average load (50% of rated power)/ rated load

** if manufacturer recommendations regarding heating water temperature ranges are not observed, boiler must be obligatory connected to central heating system equipped with three- or four - ways valve, protecting against so called „ low temperatures corrosion”

C* handle use to transport a boiler (dimension 150 mm)

*** temporary power consumption