

Performance data S3 Turbo			18	28	36	45
Rated heat output		kW	22,5	31	36	45
Electrical connection	230V / 50Hz / fused C13A					
Electrical output		W	70	50 - 70	45 - 75	65 - 75
Boiler weight		kg	520	535	610	620
Fuel loading door dimensions (width/height)		mm	330 / 370	330 / 370	330 / 370	330 / 370
Fuel loading chamber capacity		liter	140	140	210	210
Water capacity		liter	120	120	190	190
Water side resistance dT = 20 K		mbar	1,9	3,2	2,1	6,3
Permitted operating pressure		bar	3			
Permitted operating temperature		°C	90			
Minimum return feed temperature		°C	60			
Airborne sound level		dB(A)	< 70			
Boiler class			5			
Permitted fuel	Firewood as per EN 14961-5 D15 L50 class A2					
Combustion time ¹⁾ Beech Spruce			4,3 - 6,3 3,0 - 4,4	3,9 - 5,6 2,8 - 3,9	4,6 - 6,7 3,2 - 4,7	3,9 - 5,6 2,7 - 4,0
Boiler data for dimensioning the flue gas system			18	28	36	45
Flue gas temperature	RL/PL	°C	150	170	150	170
Flue gas mass flow	RL/PL	kg/h	57,6	79,2	93,6	118,8
Flue gas mass flow	RL/PL	kg/s	0,016	0,022	0,026	0,033
Minimum feed pressure	RL/PL	Pa	8	8	8	8
Minimum feed pressure	RL/PL	mbar	0,08	0,08	0,08	0,08
Flue spigot diameter (outside)		mm	150	150	150	150
			Test report data:			
Testing institute	TÜV Austria ²⁾					
Test report no.			PB 031 00 11	PB 032 00 11	PB 033 01 12	PB 034 00 11
Carbon monoxide (CO)	RL/PL	mg/MJ mg/m ³	90 / - 133 / -	80 / 486 118 / 714	39 / 380 58 / 559	55 / 190 81 / 280
Nitrogen oxide (NOx)	RL/PL	mg/MJ mg/m ³	91 / - 134 / -	91 / 70 134 / 102	79 / 76 116 / 111	85 / 86 125 / 127
Organic hydrocarbons (OGC)	RL/PL	mg/MJ mg/m ³	6 / - 10 / -	3 / 20 4 / 30	1 / 15 2 / 23	2 / 7 3 / 11
Dust	RL/PL	mg/MJ mg/m ³	7 / - 11 / -	21 / 8 30 / 12	7 / 9 10 / 14	9 / 10 14 / 15
Boiler efficiency		%	91,1	92,3	93,0	94,1

RL = Rated load, PL = Partial load

1) The values specified for combustion time are guideline values for firewood at Rated load and will vary depending on water content (15-25%) and fill level (80-100%).

2) TÜV Austria, Environment and Chemistry Division, Thalheim at Wels Test Centre