

Model		ECO-BURN					
Types		EC 20	EC 28	EC 35	EC 45	EC 60	EC 75
Description of boiler		Manually stocked, welded steel boilers, for solid fuels in 3pass flue circulation principle					
Output (wood, hard coal, lignite)	kW	20	28	35	45	60	75
Water content	lt	56	64	74	84	104	118
Net weight	kg	180	205	220	250	290	340
Total heating surface	m ²	2,0	2,3	2,8	3,3	4,0	4,8
Combustion chamber dimensions							
Height	mm	490				505	
	Width	330		420		480	
	Length	360		500		600	
Combustion chamber volume	dm ³	58,0	81,0	103,0	123,0	145	179
Fuel loading clearance (upper door)	mmxmm	330 x 215		420 x 215		480 x 265	
Maximum fuel loading height	mm	400					
Boiler body construction		Steel welded (S 235 JR)					
Boiler bottom grade construction		Cast iron (EN G.JL 200)					
Fuel loading		Manual					
Flue circulation principle		Horizontal three pass					
Output control		Thermostatic					
Requested draught in chimney	Pa	12-16	14-18	16-22	20-30	25-35	35-40
	mbar	0,12-0,16	0,14-0,18	0,16-0,22	0,20-0,30	0,25-0,35	0,35-0,40
Temperature control range	C	50 - 90					
Maximum operating temperature	C	100					
Minimum return temperature	C	50 (recommended)					
Safety system activated at	C	95					
Maximum operating pressure	bar	2,5					
Flow/return connections (F/R)	R	2 "					
Connection for cooling loop (HE)	R	1 1/2"					
Filling / draining connection (FD)	R	1/2"					
External dimensions							
H	mm	1060				1150	
	H1	970				1070	
	H2	230					
	H3	215					
W	mm	482		572		632	
	L	662		802		902	
L1	mm	506		646		746	
	Flue outlet (D)	140		160		180	
Matchnig pellet burners							
Pellet burner assembly dimensions	P	185		185		185	
Pellet burner assembly dimensions	P1	225		225		165	
Max burner head size	mm	180 x 180		180 x 180		180 x 225	
Max burner tube length	mm	240		320		370	

Fuel type		Wood					
Maximum fuel charge	kg	23	26	34	41	54	66
Requested fuel parameters		Maximum water content 20% Maximum cross section 10 cm x 10 cm Average calorific value 17.000 - 20.000 kJ/kg					
Flue gas mass flow	g/s	21,7	26,4	33,0	42,4	56,5	70,5

Fuel type		Hard coal, lignite					
Maximum fuel charge	kg	30	35	45	55	73	90
Requested fuel parameters		Maximum water content 15% Average size between 30 to 60 mm Average calorific value 26.000 - 30.000 kJ/kg					
Flue gas mass flow	g/s	32,5	39,6	49,5	63,6	84,5	105,6

