

# Technical Data

## Purewell Classic - Performance and General Data Information

Boiler Model		PC 40	PC 50	PC 60	PC 70	PC 80	PC 95	PC 105	PC 120		
Energy	Boiler output	kW	40	50	60	70	80	95	105	120	
		Btu/h x 1000	136.5	170.6	204.7	238.8	273.0	324.2	358.3	409.5	
	Boiler output* (Low fire)	kW	32.5	31.4	31.6	29.2	31.6	34.4	38.0	38.7	
		Btu/h x 1000	110.9	107.1	107.8	99.6	107.8	117.4	129.7	132.0	
Boiler input (Gross)	kW	49.3	63.4	74.5	88.4	101	120	132	150		
	Btu/h x 1000	168.2	216.3	254.2	301.6	344.6	409.5	450.4	511.8		
Boiler input (Nett)	kW	44.4	57.1	67.1	79.6	90.9	108.5	118.8	135		
	Btu/h x 1000	151.5	194.8	229.0	271.6	310.2	370.2	405.4	460.6		
Water	Water content	l	30	30	37.1	37.1	37.1	44.2	44.2	51.3	
		UK gal	6.6	6.6	8.2	8.2	8.2	9.7	9.7	11.3	
	System design flow rate	l/s	0.87	1.08	1.30	1.52	1.74	2.06	2.28	2.60	
	@ 11°CΔt across module	UK gal/min	11.5	14.3	17.2	20.1	22.9	27.2	30.1	34.3	
	Minimum flow rate at any time @ 22°CΔt rise	l/s	0.43	0.54	0.65	0.76	0.87	1.03	1.14	1.30	
		UK gal/min	5.7	7.1	8.6	10.0	11.5	13.6	15.1	17.2	
	Waterside pressure loss @ 11°CΔt	mbar	5.10	7.84	15.69	20.59	26.47	37.25	50.00	84.31	
		in wg	2.0	3.1	6.3	8.3	10.6	15.0	20.1	33.9	
Maximum water pressure	bar	6									
	psig	87									
Minimum water pressure modular application 82°C flow 11°CΔt	bar	0.42									
	psig	6.1									
Gas	Input rate natural gas	m <sup>3</sup> /h	4.73	5.92	7.1	8.27	9.44	11.19	12.36	14.1	
		ft <sup>3</sup> /h	167.0	209.1	250.7	292.1	333.4	395.2	436.5	497.9	
	Nom.gas inlet pressure at boiler natural gas	mbar	20								
		in wg	8								
Max.gas inlet pressure at boiler natural gas	mbar	25									
	in wg	10									
Gas setting pressure standard module natural gas	mbar	13.4	12.5	11.9	11.0	9.5	11.5	11.2	11.0		
	in wg	5.4	5.0	4.8	4.4	3.8	4.6	4.5	4.4		
Approx flue gas volume @ 9% CO <sub>2</sub> @ NTP	m <sup>3</sup> /h	62.9	78.8	94.5	110.0	125.6	148.9	164.4	187.6		
	ft <sup>3</sup> /h	2221	2783	3337	3884	4435	5258	5807	6625		
Approx flue gas temp. nett (primary flue)	°C	190	200	190	220	230	200	215	205		
	°F	365	385	365	423	442	385	413	394		
Connection	Water flow/return Connections	Rc2 " ISO 7/1									
	Gas inlet Connection	R3/4" ISO 7/1					R1" ISO 7/1				
	Flue connections to draught diverter nominal dia.	mm	206					256			
		in	8.11					10.1			
Electrical supply	230v 50Hz Single phase, 6 amp fuse										

\*Fully automatic boiler only