

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	m3/h	4.73	5.92	7.1	8.27	9.44	11.19	12.36	14.1
		ft3/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	
Flue	Approx flue gas volume @ 9% CO2 @ NTP	m3/h	62.9	78.8	94.5	110.0	125.6	148.9	164.4	187.6
		ft3/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