



Technical Data

Performance and General Data Information

		50kW Modules Horizontal Series			50kW Modules Compact Series							200kW Modules		
		1x50H	2x50H	3x50H	50	100	200	300	400	500	600	200	County	
Boiler Model		1	2	3	1*	2	4	6	8	10	12	1	2	
Number of Modules		1	2	3	1*	2	4	6	8	10	12	1	2	
Energy	Output	kW Btu/h x 1000	50 171	100 341	150 512	50 171	100 341	200 682	300 1024	400 1365	500 1706	600 2047	200 682	400 1365
	Boiler input (gross)	kW Btu/h x 1000	59.5 203	119.0 406	178.5 609	59.5 203	119.0 406	238.0 812	357.0 1218	476.0 1624	595.0 2030	714.0 2436	238 812	476 1624
	Boiler input (nett)	kW Btu/h x 1000	53.7 183	107.3 366	161.0 549	53.7 183	107.3 366	214.6 732	322.0 1099	429.3 1467	536.6 1830	643.9 2197	215 732	429 1467
Water	Water content (not including headers)	l UK gal	4 0.88	8 1.76	12 2.64	4 0.88	8 1.76	16 3.52	24 5.28	32 7.04	40 8.80	48 10.56	20 4.40	40 8.80
	System design flow rate @ 11°CΔt across module	l/s UK gal/min	1.07 14.2	2.13 28.4	3.20 42.6	1.07 14.2	2.13 28.4	4.27 56.8	6.40 85.2	8.53 113.6	10.67 142.0	12.80 170.4	4.27 56.8	8.53 113.6
	Minimum flow rate at any time @ 14°CΔt rise	l/s UK gal/min	0.83 11	1.67 22	2.50 33	0.83 11	1.67 22	3.33 44	5.00 66	6.67 88	8.33 110	10.00 132	3.33 44	6.67 88
	Waterside pressure loss @ 11°CΔt	mbar ft head water	116 3.9			116 3.9							103 3.5	
	Maximum water pressure	bar psig	6 87			6 87							6 87	
	Minimum water pressure modular application 82°C flow 11°CΔt	bar psig	0.2 2.9	0.42 6.1	0.42 6.1	0.2 2.9	0.42 6.1					0.2 2.9	0.42 6.1	
Gas	Input rate natural gas (G20)	m³/h ft³/h	5.7 200	11.3 400	17.0 600	5.7 200	11.3 400	22.7 800	34.0 1200	45.4 1600	56.7 2000	68.0 2400	22.7 800	45.4 1600
	Nominal gas inlet pressure at boiler. natural gas (G20)	mbar in wg	20 8			20 8							20 8	
	Min. gas inlet pressure at boiler natural gas (G20)	mbar in wg	17 6.8			17 6.8							17 6.8	
	Maximum gas inlet pressure at boiler (G20)	mbar in wg	25 10			25 10							25 10	
Flue	Approx flue gas volume @ 9% CO ₂ @ NTP	m³/h ft³/h	72 2540	144 5080	216 7630	72 2540	144 5080	288 10170	432 15250	576 20340	720 25400	864 30500	288 10170	576 20340
	Approx flue gas temp. nett	°C °F	125 257			125 257							125 257	
Connection	Water flow/return connection flanges BS4504 PN6		32	50	80	32	32	50	80	80	80	80	80	80
	Gas connection	Rc/R BSP	Rc ¹ / ₂ 1/2"	R1 1"	R1 1"	Rc ¹ / ₂ 1/2"	2xRc ¹ / ₂ 1/2"	2xR1 1"	2xR1 1"	2xR1 ¹ / ₄ 1 1/4"	2xR1 ¹ / ₄ 1 1/4"	2xR1 ¹ / ₄ 1 1/4"	Rc1 1"	2xRc1 1"
	Flue socket (ID)	mm	184	238	288	238 on each compact casing						344	358	
	Nominal flue bore	mm	150	200	250	1x200	1x200	2x200	3x200	4x200	5x200	6x200	300	350
Electrics	Power requirements	W	125	250	375	125	250	500	750	1000	1250	1500	250	500
	Electrical supply		230v AC 50Hz Single Phase											

* Compact 100 with one 50kW module blanked off