

# Technical data

## Dorchester DR-FC Evo

Dorchester DR-FC Evo model		Units	DR-FC Evo 25	DR-FC Evo 30	DR-FC Evo 45	DR-FC Evo 60	DR-FC Evo 80	DR-FC Evo 95	DR-FC Evo 120
Energy	Building Regulations thermal efficiency gross	%	96	98	96	95	97	95	95
	ErP efficiency rating (modules ≤ 70kW only)	-	A	A	A	A	N/A	N/A	N/A
	Heating-up time, ΔT = 44°C	min.	23	37	24	20	19	16	13
	Heating-up time, ΔT = 50°C	min.	26	42	27	23	21	18	15
	Heating-up time, ΔT = 55°C	min.	29	46	30	25	23	20	16
	Standby losses	kW/24h	4.2	4.7	4.7	4.7	6.7	6.7	6.7
Water	Continuous output with 44°C ΔT	l/h	600	630	790	1200	1700	2000	2400
	1st hour output with 44°C ΔT	l	730	870	1300	1500	1900	2200	2600
	Continuous output with 50°C ΔT	l/h	530	560	850	1100	1500	1700	2100
	1st hour output with 50°C ΔT	l	630	730	1100	1300	1700	1900	2300
	Continuous output with 55°C ΔT	l/h	480	510	780	930	1300	1600	1900
	1st hour output with 55°C ΔT	l	560	640	930	1100	1500	1700	2000
	Storage capacity	litres	227	386	386	386	504	504	504
	Maximum operating water pressure (open vented)	bar	8	8	8	8	8	8	8
	Maximum operating water pressure (unvented)	bar	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	Expansion relief valve setting (unvented kit)	bar	6	6	6	6	6	6	6
ErP load profile	-	XXL	XXL	XXL	XXL	3XL	3XL	3XL	
Nat Gas	Input, gross – maximum	kW	31.6	32.6	51.2	62.1	85	103.4	126.3
	Output – maximum	kW	30.5	32	49.3	59.3	82.6	98.7	119.4
	Gas inlet pressure – nominal	mbar	20	20	20	20	20	20	20
	Gas flow rate – maximum @1013.25 mbar and 15°C	m³/h	3.1	3.2	5	6	8.3	10.1	12.3
LPG	Input, gross – maximum	kW	31	32	50.1	60.8	83.2	101.2	123.6
	Output – maximum	kW	30.5	32	49.3	59.3	82.6	98.7	119.4
	Gas inlet pressure – nominal	mbar	37	37	37	37	37	37	37
	Gas flow rate – maximum@1013.25 mbar and 15°C	kg/h	2.3	2.3	3.7	4.4	6.1	7.4	9
Flue	Approximate flue gas volume @15°C, N.T.P. (Nat. Gas - G20)	kg/h	51.7	53.5	84.6	103.7	141.9	172.9	213.3
	Flue gas temperature – maximum	°C	45	50	60	65	50	55	60
	NOx emission, dry air free, European Class 5. Maximum (at part load)	mg/kWh	24	32	36	37	34	36	37
	Pressure at the flue outlet only (B23) with zero pressure at air inlet	Pa	52	62	133	173	88	126	180
Electrical	Start current–maximum (maximum power)	A (W)	0.59 (135)	0.59 (135)	0.59 (135)	0.59 (135)	0.61 (140)	0.61 (140)	0.61 (140)
	Run current–maximum (maximum power)	A (W)	0.2 (45)	0.2 (45)	0.32 (75)	0.5 (115)	0.41 (95)	0.63 (145)	1.05 (240)
	Electrical supply	Vac	230V 1PH 50Hz	230V 1PH 50Hz	230V 1PH 50Hz	230V 1PH 50Hz	230V 1PH 50Hz	230V 1PH 50Hz	230V 1PH 50Hz
	Voltage tolerance	% of Vac	-15% +10%	-15% +10%	-15% +10%	-15% +10%	-15% +10%	-15% +10%	-15% +10%
Misc.	Noise level @2m from flue terminal	dB(A)	<45	<45	<45	<45	<45	<45	<45
	Number of (power) anodes	-	1	2	2	2	2	2	2
	Weight when empty	kg	196	239	239	239	405	405	405
	Approximate shipping weight	kg	215	260	260	260	426	426	426
	Maximum floor load/weight filled with water	kg	423	625	625	625	909	909	909