

Technical submittal



Products: Dorchester DR-FC Evo 95

Project: Customer:

Date:

- Full automatic condensing direct fired water heater
- Down firing, modulating burner
- Multiple temperature settings to enhance condensing performance
- Whisper quiet at <45dB(A) @2m from flue terminal
- Inspection and clean out door for easy maintenance
- Suitable for LPG or natural gas
- Glass lined
- Electronic anode protection
- 36mg/KWh NOx emission, dry air free, European Class 5. Maximum (at part load)
- 95% Building Regulations thermal efficiency gross
- 3XL ErP load profile
- 504 litres storage capacity
- 1700l/h continuous output ($\Delta T = 50^{\circ}C$)
- 18 minute heat up time ($\Delta T = 50^{\circ}C$)

Title 1
3
A 3XL

	Dorchester DR-FC Evo model	Units	DR-FC Evo 95
	Building Regulations thermal efficiency gross	%	95
Energy	ErP efficiency rating (modules ≤ 70 kW only)	-	N/A
	Heating-up time, $\Delta T = 44^{\circ}C$	min.	16
	Heating-up time, $\Delta T = 50^{\circ}C$	min.	18
	Heating-up time, $\Delta T = 55^{\circ}C$	min.	20
	Standby losses	kW/24h	6.7
	Continuous output with 44°C ΔT	l/h	2000
	1st hour output with 44°C ∆T	Ī	2200
	Continuous output with 50°C ΔT	l/h	1700
	1st hour output with 50°C ΔT	1	1900
_	Continuous output with 55°C ΔT	l/h	1600
Water	1st hour output with 55°C ΔT	1	1700
	Storage capacity	litres	504
	Maximum operating water pressure (open vented)	bar	8
	Maximum operating water pressure (unvented)	bar	5.3
	Expansion relief valve setting (unvented kit)	bar	6
	ErP load profile	-	3XL
	Input, gross – maximum	kW	103.4
Nat Gas	Output – maximum	kW	98.7
Nat	Gas inlet pressure – nominal	mbar	20
	Gas flow rate – maximum @1013.25 mbar and 15°C	m³/h	10.1
	Input, gross – maximum	kW	101.2
8	Output – maximum	kW	98.7
	Gas inlet pressure – nominal	mbar	37
	Gas flow rate – maximum@1013.25 mbar and 15°C	kg/h	7.4
	Approximate flue gas volume @15°C, 9.8% CO ₂ , N.T.P. (Nat. Gas - G20)	kg/h	172.9
Flue	Flue gas temperature – maximum	°C	55
ш.	NOx emission, dry air free, European Class 5. Maximum (at part load)	mg/kWh	36
	Pressure at the flue outlet only (B23) with zero pressure at air inlet	Pa	126
	Start current–maximum (maximum power)	A (W)	0.61 (140)
ical	Run current–maximum (maximum power)	A (W)	0.63 (145)
Electrical	Electrical supply	Vac	230 V 1 PH 50 Hz
	Voltage tolerance	% of Vac	-15% +10%
	Noise level @2m from flue terminal	dB(A)	<45
	Number of (power) anodes	-	2
Misc.	Weight when empty	kg	405
	Approximate shipping weight	kg	426
	Maximum floor load/ weight filled with water	kg	909

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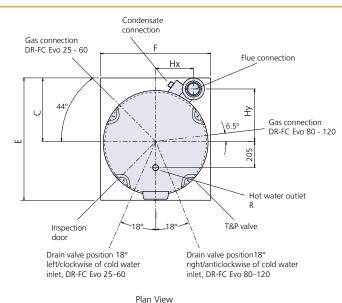
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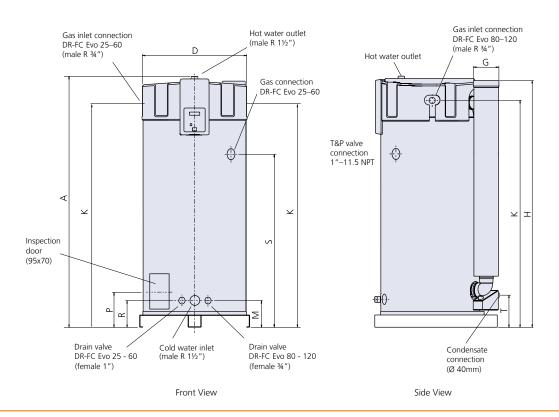
Clearances

100 cm above top of water heater, 100 cm around controls and inspection doors. 50 cm around all other sides of water heater.

Note: Flue gas sampling point access must be restricted if the water heater is to be fitted in the corner of the room. If so, a loose sampling point adapter is available as an option, which can be fitting during installation at a more accessible position in the flue, as required.

Ring Base Option

Models DR-FC Evo 25 to DR-FC Evo 60 inclusive are also available (as a special order) supplied fitted with a narrow galvanised steel ring base instead of a pallet base. In this configuration all height dimensions will be reduced by 95 mm for each applicable model.



	Α	С	D	E	F	G	H	Нх	Ну	K	M	N	P	R	S	T
	Total height	Position on base	Water heater diameter	Depth	Width	Diameter for flue gas discharge	Height of flue gas outlet/air supply	x position flue gas outlet	y position flue gas outlet	Height of gas connection	Height of cold water inlet	Height of hot water outlet	Height of cleaning opening	Height of drain valve connection	Height of T&P valve connection	Height of condensation drain
DR-FC 95	2060	530	850	1000	900	130/200	1995	310	440	1855	225	2060	290	225	1425	240

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