

Technical submittal

Products: **Dorchester DR-CC 32-245**

Project:

Customer:

Date:

- ⌚ Full automatic condensing direct fired water heater
- ⌚ Down firing, modulating burner
- ⌚ Inspection and clean out door for easy maintenance
- ⌚ Glass lined
- ⌚ Electronic anode protection
- ⌚ No rear clearance required
- ⌚ Suitable for LPG or natural gas
- ⌚ 37mg/KWh NOx emission, dry air free, European Class 5. Maximum (at part load)
- ⌚ 95% Building Regulations thermal efficiency gross
- ⌚ XXL ErP load profile
- ⌚ A ErP efficiency rating
- ⌚ 247 litres storage capacity
- ⌚ 530l/h continuous output ($\Delta T = 50^{\circ}\text{C}$)
- ⌚ 22 minute heat up time ($\Delta T = 50^{\circ}\text{C}$)



	Dorchester DR-CC model	Units	DR-CC 32-245
Water	Continuous output with $44^{\circ}\text{C } \Delta T$	l/h	602
	1st hour output with $44^{\circ}\text{C } \Delta T$	l	870
	Continuous output with $50^{\circ}\text{C } \Delta T$	l/h	530
	1st hour output with $50^{\circ}\text{C } \Delta T$	l	760
	Continuous output with $56^{\circ}\text{C } \Delta T$	l/h	473
	1st hour output with $56^{\circ}\text{C } \Delta T$	l	670
	Storage capacity	litres	247
	Maximum working pressure	bar	8
	ErP load profile	-	XXL
	Building Regulations thermal efficiency gross	%	95
Energy	ErP efficiency rating	-	A
	Heating-up time, $\Delta T = 44^{\circ}\text{C}$	min.	20
	Heating-up time, $\Delta T = 50^{\circ}\text{C}$	min.	22
	Heating-up time, $\Delta T = 56^{\circ}\text{C}$	min.	25
	Standby losses	kW/24h	2.64
Nat Gas	Input, gross – maximum	kW	32.2
	Input, net – maximum	kW	29
	Output – maximum	kW	30.7
	Gas inlet pressure – nominal	mbar	20
	Gas flow rate – maximum @1013.25 mbar and 15°C	m ³ /h	3.1
LPG	Input, gross – maximum	kW	31.5
	Output – maximum	kW	30.1
	Gas inlet pressure – nominal	mbar	37
	Gas flow rate – maximum@1013.25 mbar and 15°C	kg/h	2.3
Flue	Approximate flue gas volume @ 15°C , 9.8% CO ₂ , N.T.P. (Nat. Gas - G20)	m ³ /h	39.3
	Flue gas temperature – maximum	$^{\circ}\text{C}$	57
	NOx emission, dry air free, European Class 6. Maximum (at part load)	mg/kWh	37
	Pressure at the flue outlet only (B23) with zero pressure at air inlet	Pa	192
Electrical	Start current–maximum (maximum power)	A (W)	85
	Run current–maximum (maximum power)	A (W)	105
	Electrical supply	Vac	230V 50Hz
	Voltage tolerance	% of Vac	-15% +10%
Misc.	Noise level	dB(A)	58
	Number of anodes	-	2
	Weight when empty	kg	120
	Approximate shipping weight	kg	136
	Maximum floor load/ weight filled with water	kg	365



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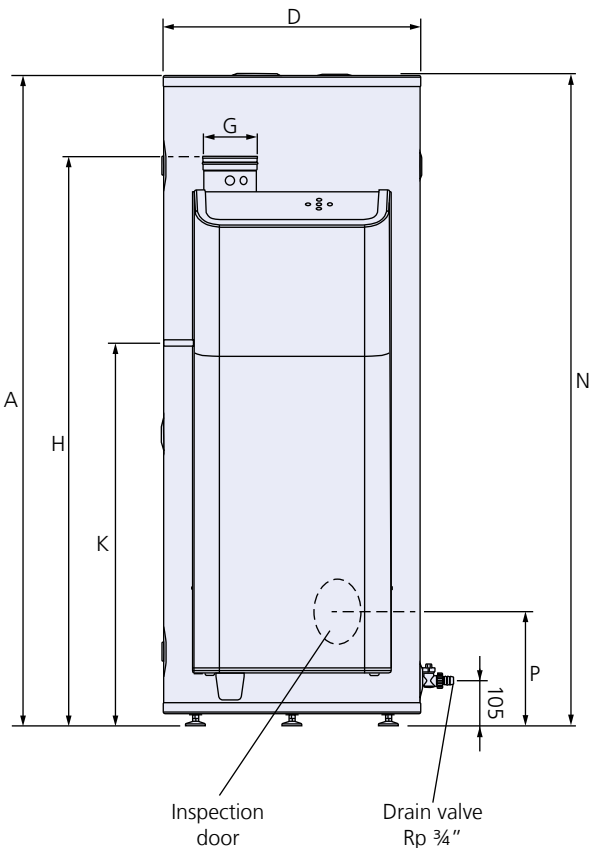
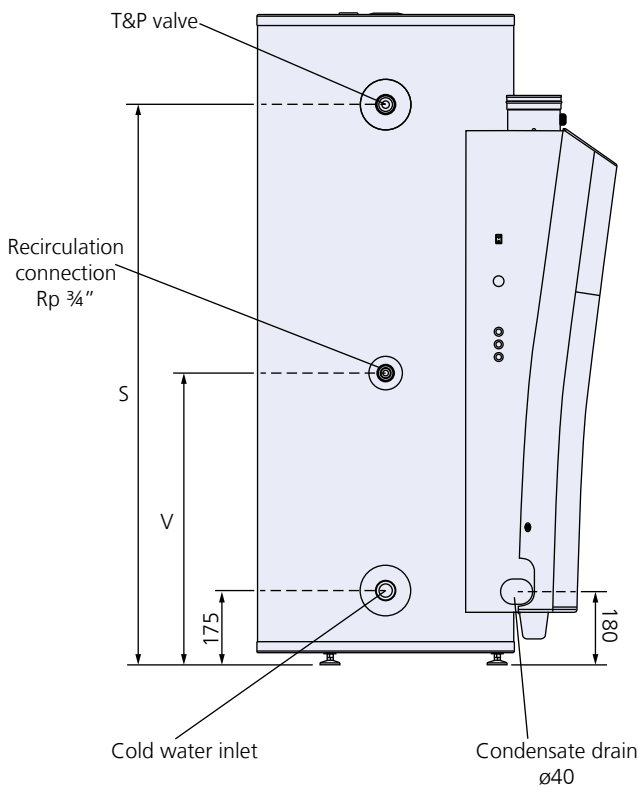
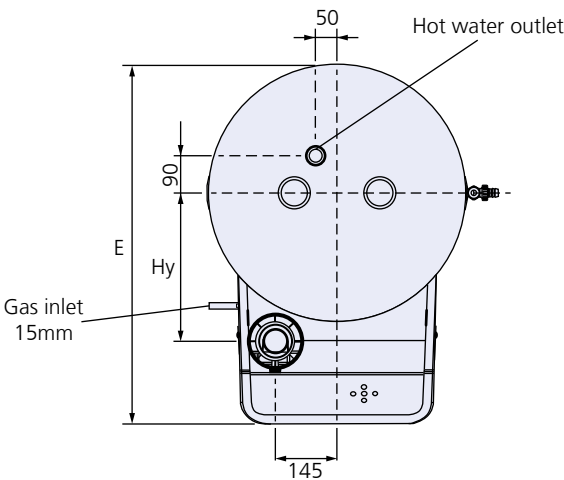
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Clearances

- 1000mm at front
- 500mm at sides
- 1000mm at top
- No rear clearances



	A	D	E	G	H	Hy	K	N	P	S	V
	Total Height	Width	Depth	Flue connection	Height of flue outlet	Position flue outlet	Height of gas connection	Height of hot water outlet	Height of inspection door	Height of T&P - valve connection	Height recirculation connection
DR-CC 32-245	1545	610	855	80/125	1350	350	910	1545	280	1330	690