

Technical submittal



Products: **Dorchester DR-CC 24-245**

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
- ⤵ 33mg/KWh NOx emission, dry air free, European Class 5. Maximum (at part load)
- ⤵ 96% Building Regulations thermal efficiency gross
- ⤵ XXL ErP load profile
- ⤵ A ErP efficiency rating
- ⤵ 247 litres storage capacity
- ⤵ 406l/h continuous output ($\Delta T = 50^{\circ}\text{C}$)
- ⤵ 29 minute heat up time ($\Delta T = 50^{\circ}\text{C}$)



	Dorchester DR-CC model	Units	DR-CC 24-245
Water	Continuous output with $44^{\circ}\text{C } \Delta T$	l/h	461
	1st hour output with $44^{\circ}\text{C } \Delta T$	l	740
	Continuous output with $50^{\circ}\text{C } \Delta T$	l/h	406
	1st hour output with $50^{\circ}\text{C } \Delta T$	l	640
	Continuous output with $56^{\circ}\text{C } \Delta T$	l/h	362
	1st hour output with $56^{\circ}\text{C } \Delta T$	l	560
	Storage capacity	litres	247
	Maximum working pressure	bar	8
	ErP load profile	-	XXL
Energy	Building Regulations thermal efficiency gross	%	96
	ErP efficiency rating	-	A
	Heating-up time, $\Delta T = 44^{\circ}\text{C}$	min.	25
	Heating-up time, $\Delta T = 50^{\circ}\text{C}$	min.	29
	Heating-up time, $\Delta T = 56^{\circ}\text{C}$	min.	32
	Standby losses	kW/24h	2.64
Nat Gas	Input, gross – maximum	kW	24.4
	Input, net - maximum	kW	22
	Output – maximum	kW	23.5
	Gas inlet pressure – nominal	mbar	20
	Gas flow rate – maximum @1013.25 mbar and 15°C	m ³ /h	2.3
LPG	Input, gross – maximum	kW	23.9
	Output – maximum	kW	23
	Gas inlet pressure – nominal	mbar	37
	Gas flow rate – maximum @1013.25 mbar and 15°C	kg/h	1.7
Flue	Approximate flue gas volume @ 15°C , 9.8% CO ₂ , N.T.P. (Nat. Gas - G20)	m ³ /h	29.76
	Flue gas temperature – maximum	$^{\circ}\text{C}$	57
	NOx emission, dry air free, European Class 6. Maximum (at part load)	mg/kWh	33
	Pressure at the flue outlet only (B23) with zero pressure at air inlet	Pa	108
Electrical	Start current–maximum (maximum power)	A (W)	51
	Run current–maximum (maximum power)	A (W)	105
	Electrical supply	Vac	230V 50Hz
	Voltage tolerance	% of Vac	-15% +10%
Misc.	Noise level	dB(A)	53
	Number of anodes	-	2
	Weight when empty	kg	120
	Approximate shipping weight	kg	136
	Maximum floor load/ weight filled with water	kg	365

Every effort has been taken to ensure the details are accurate. Hamworthy Heating does not, however, guarantee the accuracy or completeness of any information nor does it accept liability for any errors or omissions in the information. Hamworthy Heating reserves the right to make changes and improvements which may necessitate alteration to product specification without prior notice.



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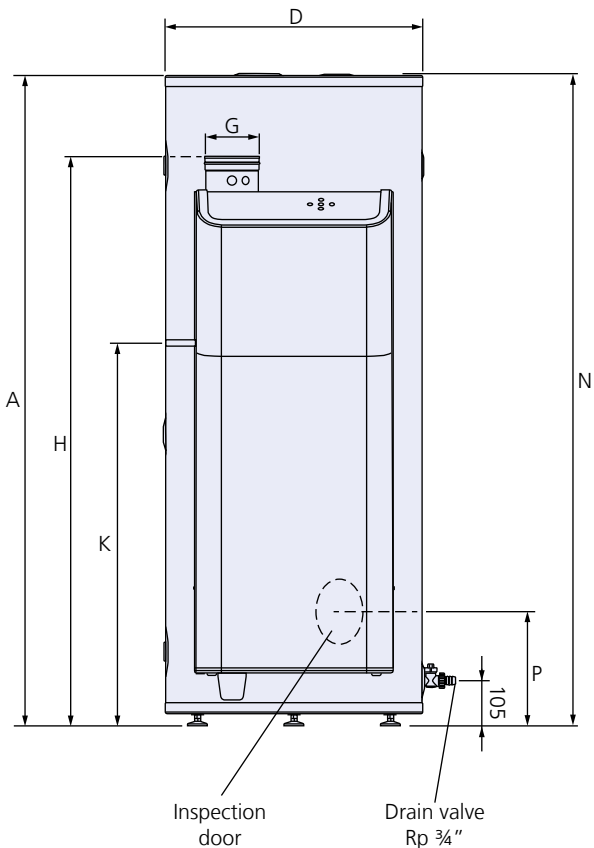
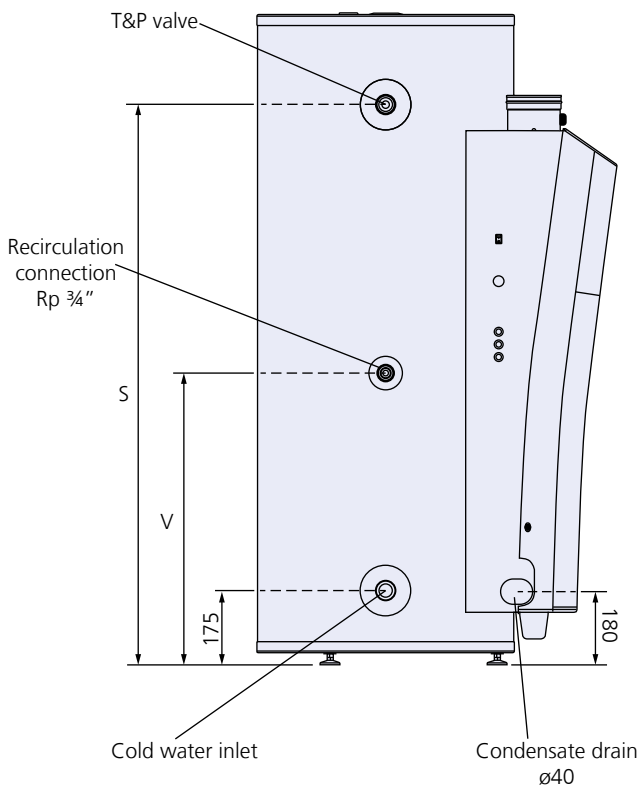
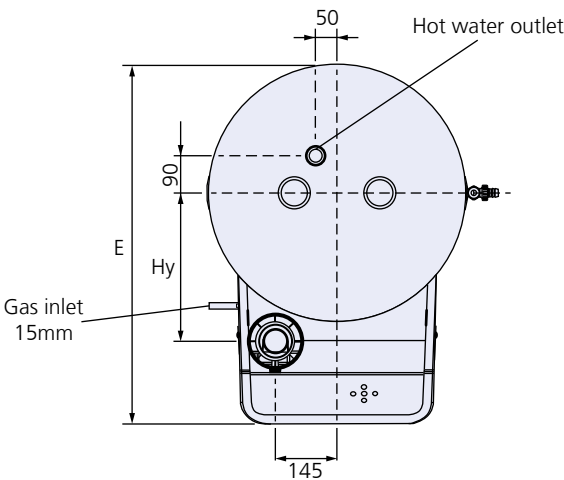


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Clearances

- 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 24-245	1545	610	855	80/125	1350	350	910	1545	280	1330	690