

Technical submittal



Products: **Dorchester DR-CC 12-200**

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
- ⤵ 22mg/KWh NOx emission, dry air free, European Class 5. Maximum (at part load)
- ⤵ 98% Building Regulations thermal efficiency gross
- ⤵ XL ErP load profile
- ⤵ A ErP efficiency rating
- ⤵ 202 litres storage capacity
- ⤵ 205l/h continuous output ($\Delta T = 50^{\circ}\text{C}$)
- ⤵ 47 minute heat up time ($\Delta T = 50^{\circ}\text{C}$)



	Dorchester DR-CC model	Units	DR-CC 12-200
Water	Continuous output with $44^{\circ}\text{C } \Delta T$	l/h	233
	1st hour output with $44^{\circ}\text{C } \Delta T$	l	470
	Continuous output with $50^{\circ}\text{C } \Delta T$	l/h	205
	1st hour output with $50^{\circ}\text{C } \Delta T$	l	410
	Continuous output with $56^{\circ}\text{C } \Delta T$	l/h	183
	1st hour output with $56^{\circ}\text{C } \Delta T$	l	360
	Storage capacity	litres	202
	Maximum working pressure	bar	8
	ErP load profile	-	XL
Energy	Building Regulations thermal efficiency gross	%	98
	ErP efficiency rating	-	A
	Heating-up time, $\Delta T = 44^{\circ}\text{C}$	min.	41
	Heating-up time, $\Delta T = 50^{\circ}\text{C}$	min.	47
	Heating-up time, $\Delta T = 56^{\circ}\text{C}$	min.	52
	Standby losses	kW/24h	2.3
Nat Gas	Input, gross – maximum	kW	12.1
	Input, net - maximum	kW	10.9
	Output – maximum	kW	11.9
	Gas inlet pressure – nominal	mbar	20
	Gas flow rate – maximum @1013.25 mbar and 15°C	m ³ /h	1.2
LPG	Input, gross – maximum	kW	11.8
	Output – maximum	kW	11.6
	Gas inlet pressure – nominal	mbar	37
	Gas flow rate – maximum @1013.25 mbar and 15°C	kg/h	0.8
Flue	Approximate flue gas volume @ 15°C , 9.8% CO_2 , N.T.P. (Nat. Gas - G20)	m ³ /h	14.72
	Flue gas temperature – maximum	$^{\circ}\text{C}$	61
	NOx emission, dry air free, European Class 6. Maximum (at part load)	mg/kWh	22
	Pressure at the flue outlet only (B23) with zero pressure at air inlet	Pa	33
Electrical	Start current–maximum (maximum power)	A (W)	25
	Run current–maximum (maximum power)	A (W)	85
	Electrical supply	Vac	230V 50Hz
	Voltage tolerance	% of Vac	-15% +10%
Misc.	Noise level	dB(A)	41
	Number of anodes	-	1
	Weight when empty	kg	106
	Approximate shipping weight	kg	122
	Maximum floor load/ weight filled with water	kg	306

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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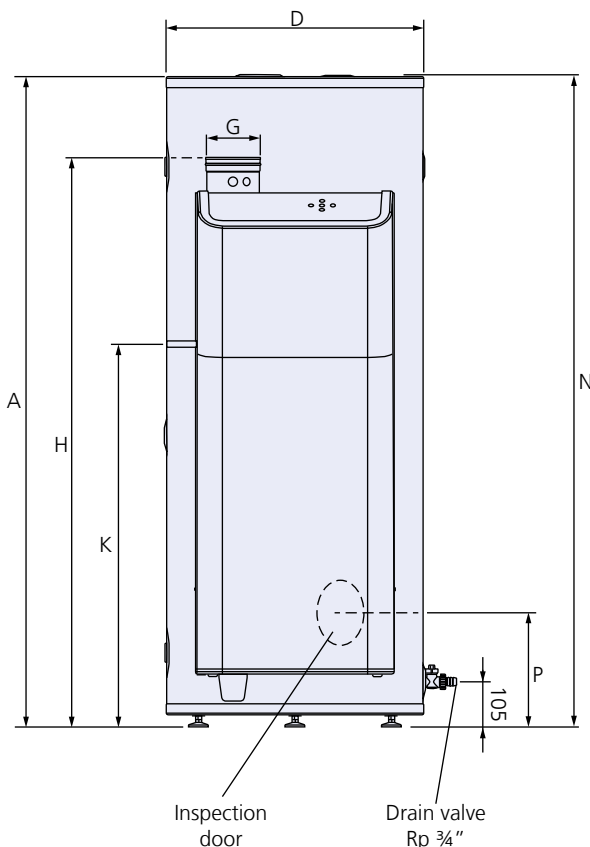
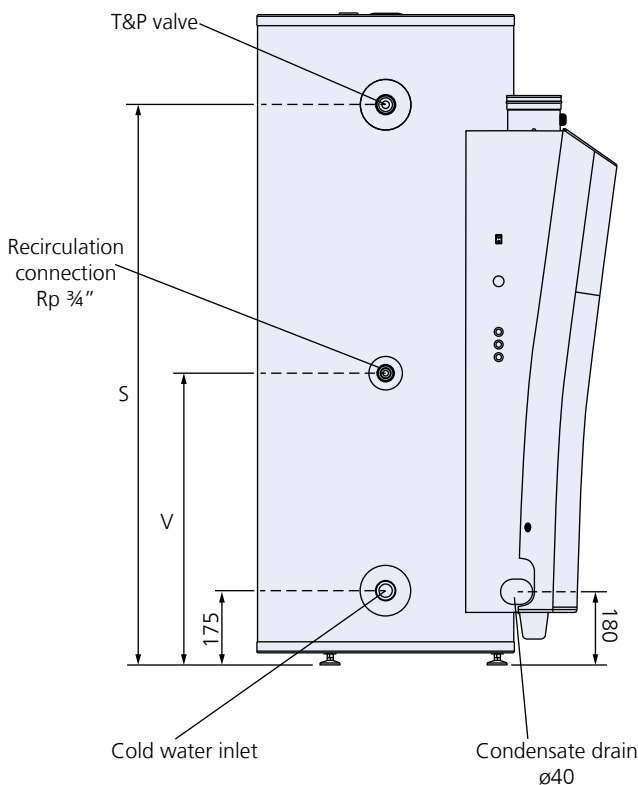
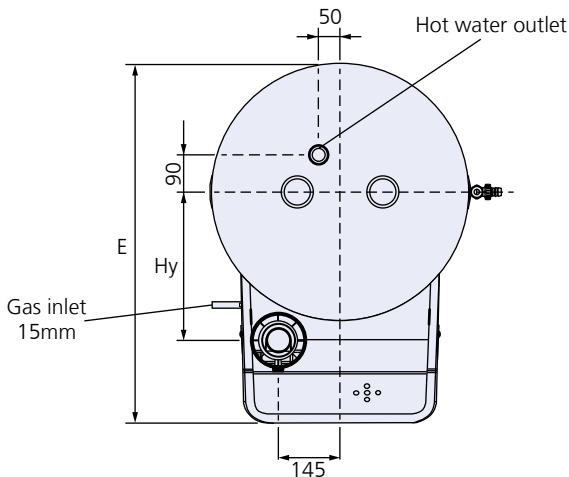
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Clearances

- 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 12-200	1545	560	805	80/125	1310	325	870	1545	155	1325	605