

Technical submittal

Products: **Dorchester DR-CC 24-285**

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)
- ⤵ 97% Building Regulations thermal efficiency gross
- ⤵ XXL ErP load profile
- ⤵ A ErP efficiency rating
- ⤵ 288 litres storage capacity
- ⤵ 410l/h continuous output ($\Delta T = 50^{\circ}\text{C}$)
- ⤵ 35 minute heat up time ($\Delta T = 50^{\circ}\text{C}$)



	Dorchester DR-CC model	Units	DR-CC 24-285
Water	Continuous output with $44^{\circ}\text{C } \Delta T$	l/h	465
	1st hour output with $44^{\circ}\text{C } \Delta T$	l	820
	Continuous output with $50^{\circ}\text{C } \Delta T$	l/h	410
	1st hour output with $50^{\circ}\text{C } \Delta T$	l	720
	Continuous output with $56^{\circ}\text{C } \Delta T$	l/h	366
	1st hour output with $56^{\circ}\text{C } \Delta T$	l	630
	Storage capacity	litres	288
	Maximum working pressure	bar	8
	ErP load profile	-	XXL
Energy	Building Regulations thermal efficiency gross	%	97
	ErP efficiency rating	-	A
	Heating-up time, $\Delta T = 44^{\circ}\text{C}$	min.	31
	Heating-up time, $\Delta T = 50^{\circ}\text{C}$	min.	35
	Heating-up time, $\Delta T = 56^{\circ}\text{C}$	min.	40
	Standby losses	kW/24h	2.97
Nat Gas	Input, gross – maximum	kW	24.4
	Input, net - maximum	kW	22
	Output – maximum	kW	23.8
	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	23.3
	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	$^{\circ}\text{C}$	65
	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	136
	Approximate shipping weight	kg	153
	Maximum floor load/ weight filled with water	kg	429



Technical submittal

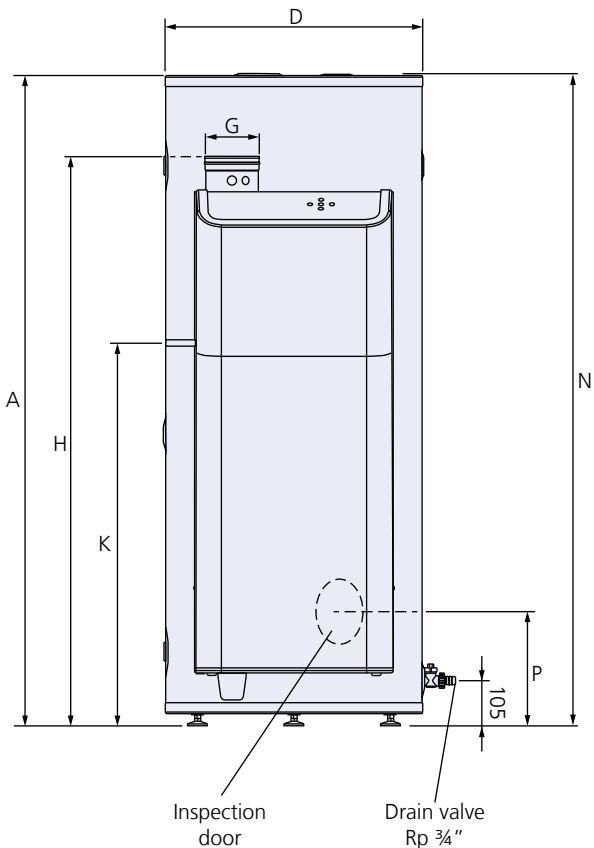
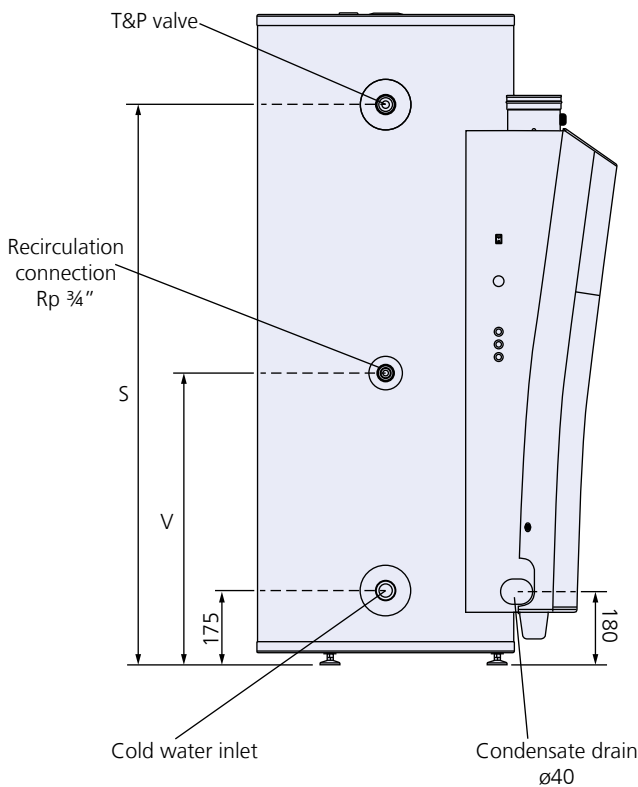
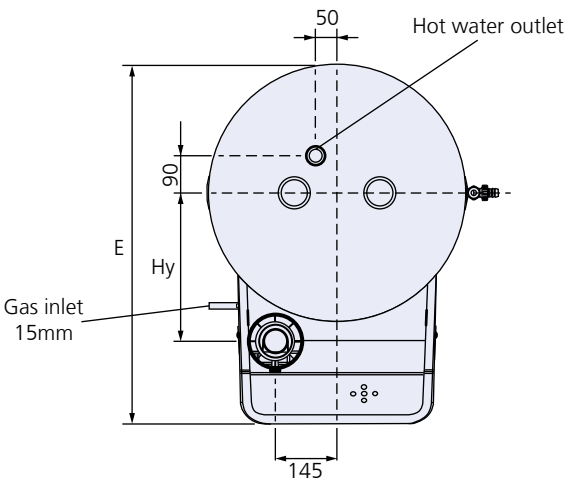


Products: **Dorchester DR-CC 24-285**
Project:
Customer:

Date:

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 24-285	1745	610	855	80/125	1350	350	910	1745	280	1535	690