

Technical submittal



Products: **Dorchester DR-CC 12-160**

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)
- ⊗ 96% Building Regulations thermal efficiency gross
- ⊗ XL ErP load profile
- ⊗ A ErP efficiency rating
- ⊗ 162 litres storage capacity
- ⊗ 201l/h continuous output ($\Delta T = 50^{\circ}\text{C}$)
- ⊗ 31 minute heat up time ($\Delta T = 50^{\circ}\text{C}$)



	Dorchester DR-CC model	Units	DR-CC 12-160
Water	Continuous output with $44^{\circ}\text{C } \Delta T$	l/h	228
	1st hour output with $44^{\circ}\text{C } \Delta T$	l	360
	Continuous output with $50^{\circ}\text{C } \Delta T$	l/h	201
	1st hour output with $50^{\circ}\text{C } \Delta T$	l	310
	Continuous output with $56^{\circ}\text{C } \Delta T$	l/h	180
	1st hour output with $56^{\circ}\text{C } \Delta T$	l	270
	Storage capacity	litres	162
	Maximum working pressure	bar	8
	ErP load profile	-	XL
Energy	Building Regulations thermal efficiency gross	%	96
	ErP efficiency rating	-	A
	Heating-up time, $\Delta T = 44^{\circ}\text{C}$	min.	27
	Heating-up time, $\Delta T = 50^{\circ}\text{C}$	min.	31
	Heating-up time, $\Delta T = 56^{\circ}\text{C}$	min.	34
	Standby losses	kW/24h	2.16
Nat Gas	Input, gross – maximum	kW	12.1
	Input, net - maximum	kW	10.9
	Output – maximum	kW	11.7
	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	11.4
	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	$^{\circ}\text{C}$	42
	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	95
	Approximate shipping weight	kg	114
	Maximum floor load/ weight filled with water	kg	255



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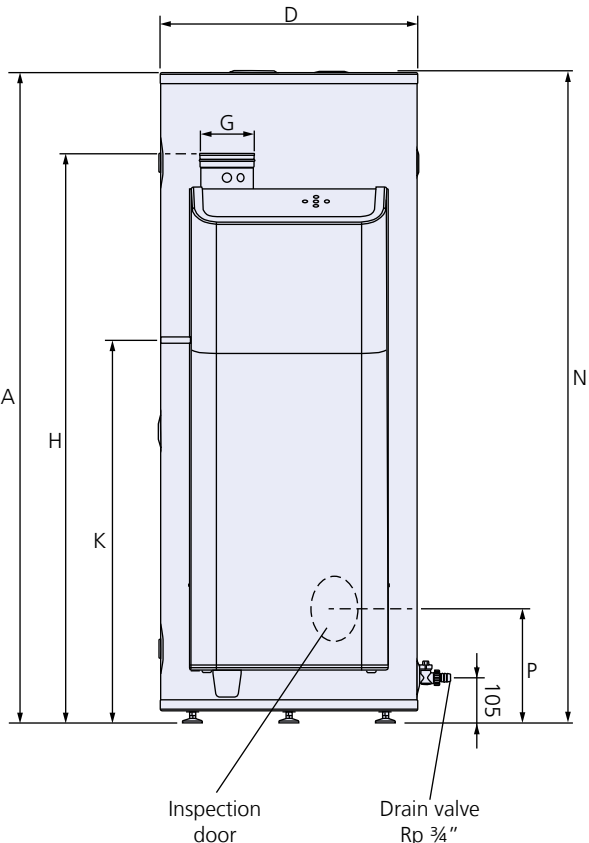
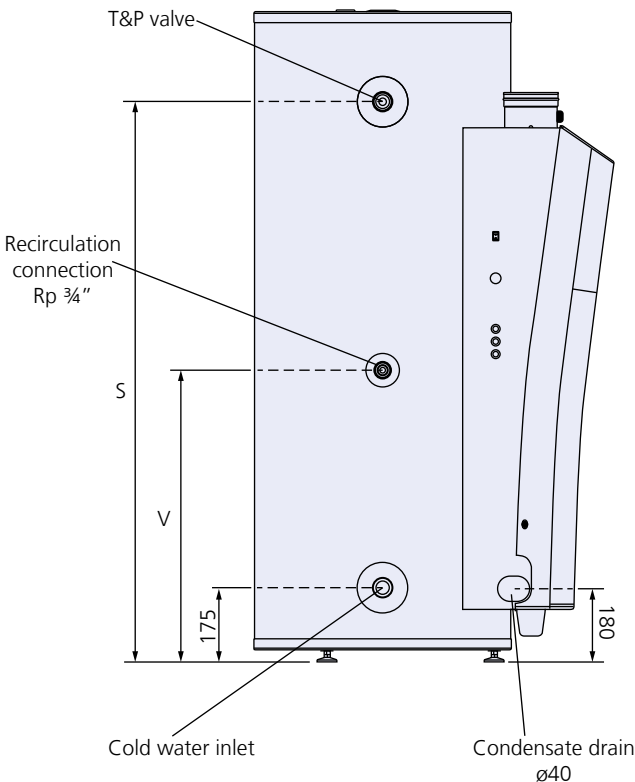
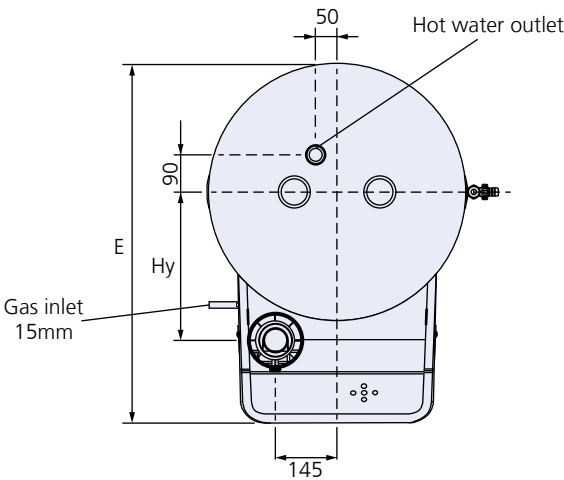


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Clearances

- 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 12-160	1270	560	805	80/125	1310	325	870	1270	155	1070	605