

Technical submittal

Products: Dorchester DR-SG 20-210, 25-210, 30-210

Project: Customer:

- Storage tank, heat exchanger and coil all manufactured from stainless steel
- Enhanced durability under challenging water conditions
- NOx under 40 mg/kWh across the range (Class 6)
- Quick and easy burner access
- Operated via the popular Siemens LMS Mini controls platform
- ⊘ Integrated flue non-return valve
- O Can deliver flow rates to satisfy high demand environments
- Suitable for natural gas and LPG systems (conversion kit included).



	Model:		DR-SG 20-210	DR-SG 25-210	DR-SG 30-210
	Part Number:		AA031256	AA031257	AA031258
Energy	Max Heat Input (Gross)	kW	20	25	30
	Max Power Output (Net)	kW	21	26.3	31.5
	Building regulations Part L, EN89 100% efficiency (NCV)	%	105	105	105
	Building regulations Part L, EN89 100% efficiency (GCV)	%	94.6	94.6	94.6
	Standby Loss	kWh/day	1.6	1.6	1.6
	Building regulations Part L, Maintenance Consumption (EN89)	kWh/day	2.7	2.7	2.7
	ErP efficiency rating		А	А	А
	Water Heater Efficiency (ErP)	%	95.9	91.7	93.5
	ErP Load Profile		XXL	XXL	XXL
	Storage Capacity	L	210	210	210
	1st 10 mins at ΔT 50°C	l/10'	175	205	220
	1st hour at ΔT 50°C	l/60'	450	570	580
2	Continuous Flow at $\Delta T 50^{\circ}C$	l/hr	360	450	540
Water	Max DHW temperature setpoint	°C	80	80	80
5	Max operating pressure (open vented)	bar	7	7	7
	Max operating pressure (unvented)	bar	6.5	6.5	6.5
	Heat-up time (mins) 50°C rise		36	29	24
	Heat-up time (mins) 55°C rise		40	32	26
	Gas Inlet Pressure (Nominal nat gas)	mbar	20	20	20
Gas	Gas flow rate (Nominal nat gas)	m³/hr	2.1	2.6	3.2
Ű	Gas Inlet Pressure (Nominal, LPG)	mbar	37	37	37
	Gas flow rate (LPG)	m³/hr	0.8	1	1.2
	Max flue gas temperature	°C	100	100	100
	Nominal flue gas operating temp	°C	39	55	60
S	Flue gas Volume @15°C	kg/h	33.1	41.4	49.7
Flues	NOx emissions	mg/kWh	29	29	29
	Pressure at flue outlet	Ра	110	170	200
	Air inlet/Flue outlet diameter	mm	80	80	80
	Max system length – concentric flues	m	20	20	20
	Electrical Supply		230 V /	AC (+10%, -15%)	50Hz
cal	Fuse rating	amp	6.3	6.3	6.3
Electrical	Power consumption (maximum)	W	34	50	68
Ш	Power consumption (standby)	W	3.6	3.6	3.6
	Sounds Power Level (LWA)	dBA	64	64	64
	Number of Anodes		1	1	1
Misc	Dry weight	kg	96	96	96
	Filled Weight	kg	306	306	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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Date:



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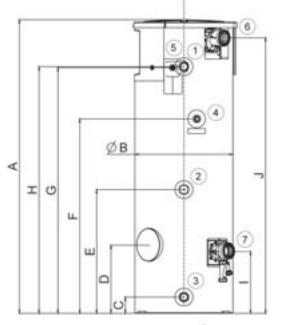
Project: Customer:

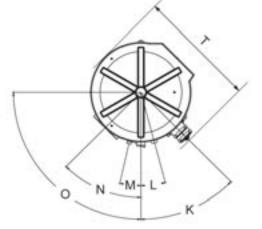
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Dorchester DR-SG XX-210 20, 25, 30





Connections

	Dorchester DR-SG XX-210			
	20	25	30	
1 Hot water outlet		Rp 1 "½		
2 Loop return	Rp 1"½			
3 Cold water inlet	Rp 1 "½			
4 T&P valve	Rp 1"			
5 Gas inlet	R ¾"			
6 Air inlet	Ø 80			
7 Flue outlet	Ø 80			

Clearances

ALL MODELS		DR-SG
Clearance – front (service)	mm	Min 500
Clearance – sides	mm	500
Clearance – rear	mm	500
Clearance – top	mm	175

Dimensions

		DR-SG XX-210
А	Overall height	1802
В	Diameter	Ø 600
С	Height to cold water inlet	100
D	Height to inspection hatch	419
Е	Height to secondary return	759
F	Height to T&P valve connection	1193
G	Height to gas connection	1508
Н	Height to hot water outlet	1514
I	Height to flue outlet	380
J	Height to air inlet	1691
К	Angle position of flue outlet	45°
L	Angle position of T&P valve fitting	13°
Μ	Angle position of gas connection	12.9°
Ν	Angle position of inspection hatch	45°
0	Angle position of HMI	90°
Ρ	Height of lower anode fitting	NA
Q	Angle position of lower anode fitting	NA
R	Overall width with LPG conversion kit	NA
S	Angle position of gas connection with LPG conversion kit	NA
Т	Max installed width	699
U	Height to condensate trap outlet	233

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