Technical submittal

Products: **Powerstock Calorifier PS400**
Project:
Customer: Date:

- Indirectly heated glass lined calorifier
- Twin coil
- Magnesium sacrificial anode corrosion protection
- ErP compliant class C
- 382l storage capacity
- 24 minutes recovery time (bottom coil only)
- 18 minutes recovery time (top and bottom coil in series)
- Foam-lined insulation
- Standby losses of 2.9kW/24hr
- 976l/h continuous outputs (@50°C ΔT) (bottom coil only)
- 1285l/h continuous outputs (@50°C ΔT) (top and bottom coil in series)



	Powerstock Calorifier model	Units	PS400
General data	ErP class		C
	Storage capacity	l	382
	Top coil surface area	m^2	1.05
	Top coil volume	l	7
	Bottom coil surface area	m^2	1.8
	Bottom coil volume	l	12.2
	Maximum operating pressure (primary - coil)	bar	10
	Maximum operating pressure (secondary - storage)	bar	10
	Maximum operating temperature (primary - coil)	°C	110
	Maximum operating temperature (secondary - storage)	°C	70
	Weight empty	kg	185
	Standby losses	kW/24hr	2.06
Bottom coil only	Continuous output*	l/h	976
	Heat input	kW	57.9
	10 min peak output*	l	615
	Recovery time	min	24
Top & bottom coil in series	Continuous output*	l/h	1285
	Heat input	kW	76.2
	10 min peak output*	l	889
	Recovery time	min	18
Electrical	Destratification pump power supply		230V 50Hz 1 Phase
	Destratification pump power consumption	W	60
	Destratification pump current	A	0.35
	Electric anode power supply		230V 50Hz 1 Phase
	Electric anode power consumption	W	23
	Electric anode current	A	0.1

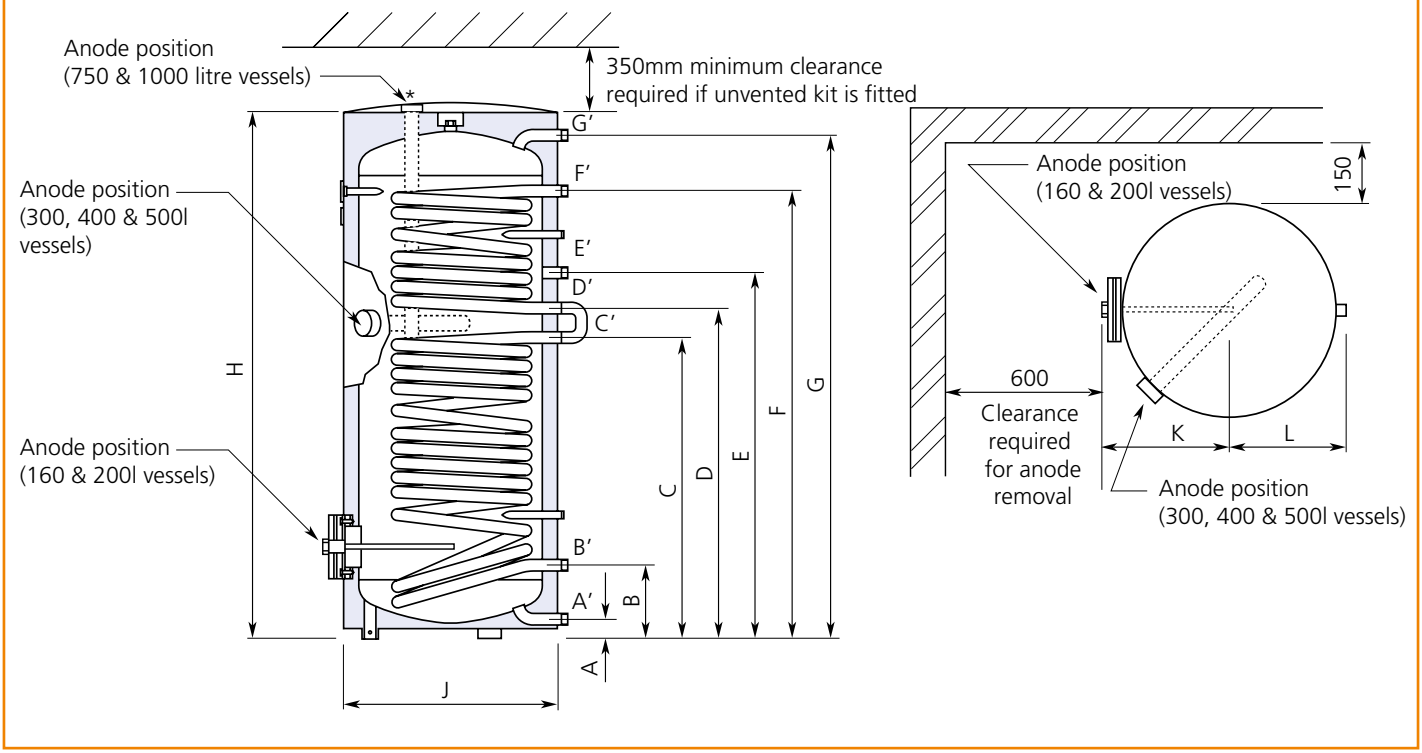
Electrical data		
Destratification pump power supply		230V 50Hz 1 Phase
Destratification pump power consumption	W	60
Destratification pump current	A	0.35
Electric anode power supply		230V 50Hz 1 Phase
Electric anode power consumption	W	23
Electric anode current	A	0.1

* Performance is based on a DHW flow temperature of 60°C, with a cold water inlet temperature of 10°C, and a primary inlet temperature of 80°C

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.

Pressure loss and flow rates

Coil ΔT °C	Bottom coil only			Top coil only			Top and bottom coil		
	Heat input (kW)	Flow rate (l/sec)	Coil pressure loss (mbar)	Heat input (kW)	Flow rate (l/sec)	Coil pressure loss (mbar)	Heat input (kW)	Flow rate (l/sec)	Coil pressure loss (mbar)
11	57.9	1.26	247	18.3	0.40	14	76.2	1.66	672
15	57.9	0.92	133	18.3	0.29	8	76.2	1.22	361
20	57.9	0.69	75	18.3	0.22	4	76.2	0.91	203



Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	J	K	L
PS400	55	221	909	1007	1112	1355	1526	1591	700	392	375

Model	Connections Diameter (inches)						
	A′	B′	C′	D′	E′	F′	G′
	Cold water feed	Lower primary coil outlet	Lower primary coil inlet	Upper primary coil outlet	Recirculation connection	Upper primary coil inlet	Hot water outlet
PS400	R 1″	R 1″	R 1″	R 1″	R ¾″	R 1″	R 1″

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