Technical submittal

Hamworthy

Products: **Powerstock Calorifier PS750**
Project:
Customer:
Date:

- Indirectly heated glass lined calorifier
- Twin coil
- Magnesium sacrificial anode corrosion protection
- ErP compliant class C
- 750l storage capacity
- 42 minutes recovery time (bottom coil only)
- 31 minutes recovery time (top and bottom coil in series)
- Foam-lined insulation
- Standby losses of 3.6kW/24hr
- 1062l/h continuous outputs (@50°C ΔT) (bottom coil only)
- 1432l/h continuous outputs (@50°C ΔT) (top and bottom coil in series)

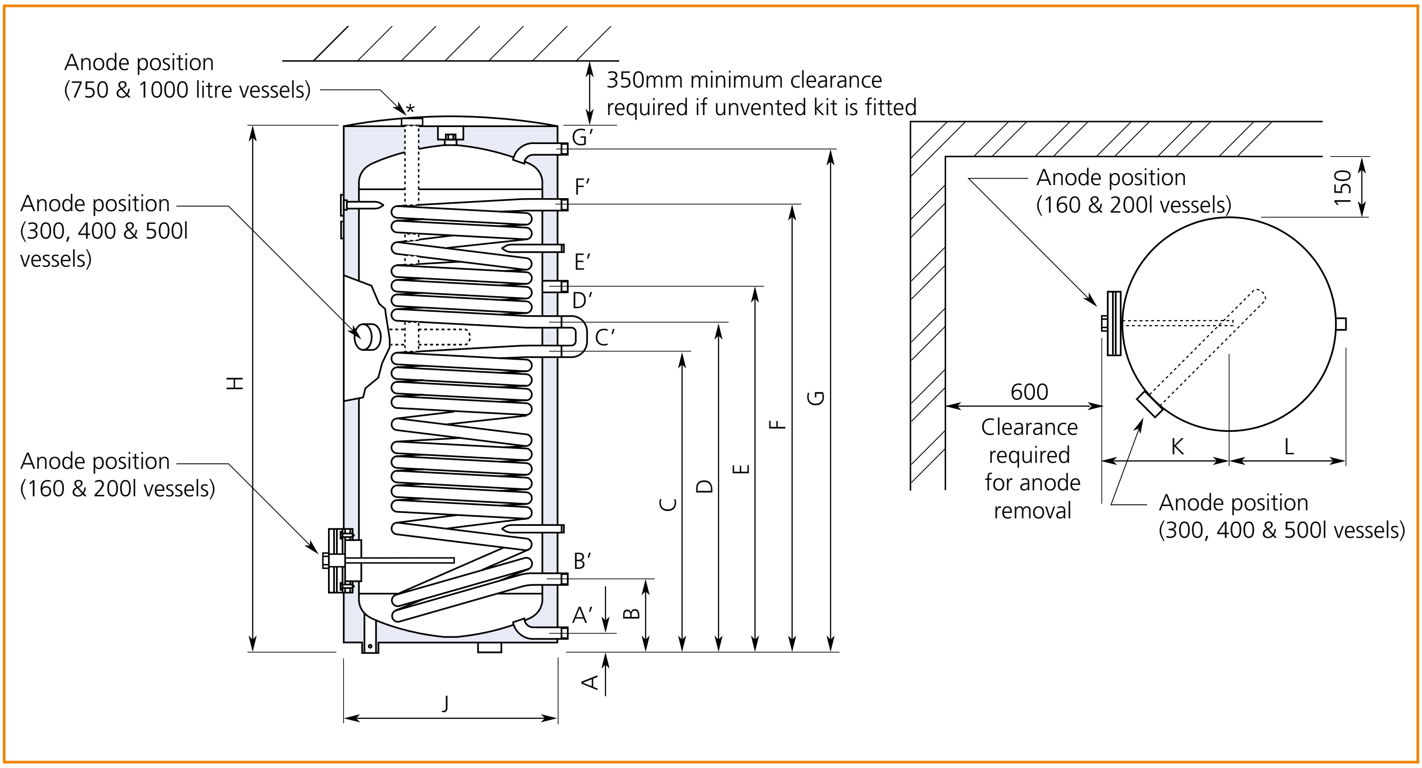
	Powerstock Calorifier model	Units	PS750
General data	ErP class		C
	Storage capacity	l	750
	Top coil surface area	m^2	1.17
	Top coil volume	l	8.2
	Bottom coil surface area	m^2	1.93
	Bottom coil volume	l	13.5
	Maximum operating pressure (primary - coil)	bar	10
	Maximum operating pressure (secondary - storage)	bar	10
	Maximum operating temperature (primary - coil)	°C	110
	Maximum operating temperature (secondary - storage)	°C	70
	Weight empty	kg	253
	Standby losses	kW/24hr	3.1
Bottom coil only	Continuous output*	l/h	1062
	Heat input	kW	63
	10 min peak output*	l	1100
	Recovery time	min	42
Top & bottom coil in series	Continuous output*	l/h	1432
	Heat input	kW	85
	10 min peak output*	l	1319
	Recovery time	min	31
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

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	63.0	1.37	301	22.0	0.48	22	85.0	1.82	880
15	63.0	1.00	162	22.0	0.35	12	85.0	1.36	473
20	63.0	0.75	91	22.0	0.26	7	85.0	1.02	266



Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	J	K	L
PS750	105	293	835	1156	1246	1471	1890	2030	950	507	515

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
PS750	R 1¼"	R 1"	R 1"	R 1"	R ¾"	R 1"	R 1¼"