Technical submittal

Products: **Burstock expansion vessel PV500W**
Project:
Customer: Date:

- Floor standing expansion vessel
- 500 litres capacity
- 10bar max pressure
- Nitrogen pre-charged
- 1.7bar pre-charge pressure (Heating)
- 3.5bar pre-charge available on request (DHW)
- WRAS approved
- Butyl rubber diaphragm suitable for temperatures of 70°C

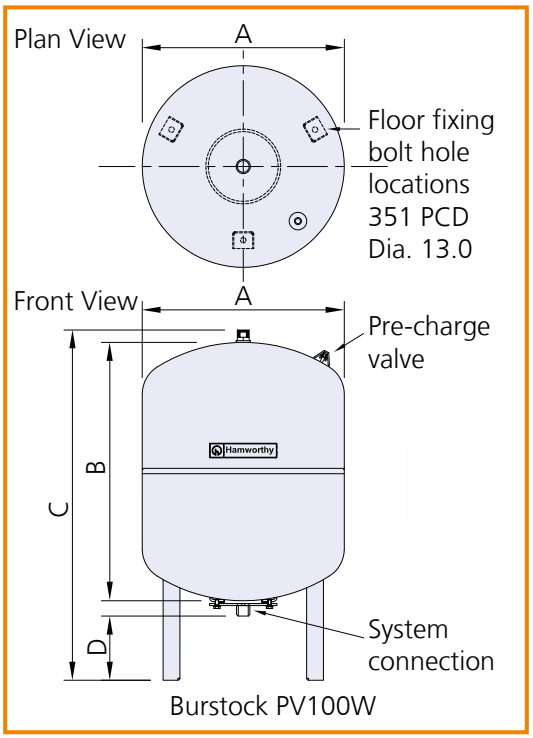
Model	Capacity (litres)	Connection size	Max pressure (bar)	Shipping weight (kg)	Pre-charge pressure (bar)		Dimensions			
					Heating	DHW	A	B	C	D
PV500W	500	G1¼"	10	79	1.7	*	740	1260	1475	133

* 3.5 bar pre-charge available on request

Model no.	Vessel(s) capacity (litres)	# Max. system volume supported for given vessel capacity (litres)		† Estimated max. installed boiler power for given vessel capacity (kW)	
		Water only	@10% antifreeze	Water only	@10% antifreeze
PV500W	500	6034	5319	603	531

Based on 80°C maximum flow temperature and factory pre-sets: Cold fill pressure = 1.8bar, vessel charge pressure = 1.7bar, acceptance volume factor 0.35, expansion factors: water 0.029, antifreeze @10% solution 0.0329.

† Estimated using 1kW of installed power for every 10 litres of system volume. Note that maximum system volume supported by a given vessel capacity is around 12% less for a system using antifreeze @10% solution in water when compared against using water alone.



Burstock PV100W