

## BOSS Potable Expansion Vessel Overview

### Description:

The BOSS Potable is an expansion vessel that is intended for use on unvented potable systems. The vessel is comprised of a high strength steel shell and EPDM or BUTYL diaphragm.

### Product Features:

- Easy to install with long service life
- Replaceable diaphragm



### Certifications and Standards Applied:

- PED 97/23/EC
- Directive 89/336/EEC according to DIN 4807-5
- CE Approved
- ACS Certified
- WRAS approved
- Material quality: RSt37.2/C22.3 : DIN
- Manufactured and tested to BS 6144 (A requirement of BS 6700)

### Maximum Operating Conditions:

- Maximum Vessel Temperature up to 500 litres: 100°C
- Maximum Vessel Temperature 750 litres above: 50°C
- Minimum Vessel Temperature: - 10°C
- Standard Pre-Pressure: 2.7 Bar (Upto 300 litres)
- Standard Pre-Pressure: 3.5 Bar (500 to 1000 litres)
- Working pressure: 10 Bar

### Application of Use:

- Heated water systems
- Chilled water systems



## Selection Details

Selecting expansion vessel:

- Thermal input to the system.
- System volume.
- Fluid makeup i.e. 100% water, 80% Water / 20% Glycol etc.
- Maximum working temperature.
- Maximum working pressure of the system.
- Cold fill pressure / static height.

## Material of Construction:

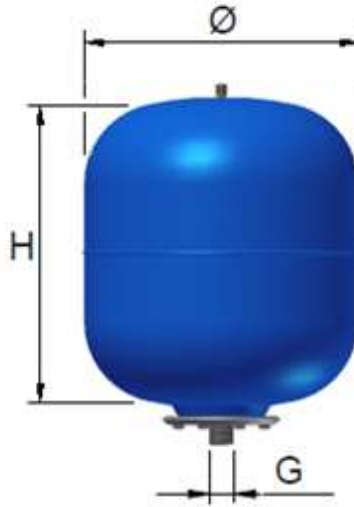
- Vessel: Steel RSt37.2/C22
- Counter flange: Galvanised Steel with PP protection
- Membrane: Butyl rubber ( 2 to 12 Litres & 1000 Litres)
- Membrane: EPDM rubber ( 16 Litres to 750 Litres)

## Dimensions:

Type	Volume (l)	Maximum Working Temp (°C)	Minimum Working Temp (°C)	Weight (Kg)	Connection (BSP M)	Dimensions		Group Code
						∅ (mm)	H (mm)	
Boss Potable 2 Litre	2	100	-10	1,2	½"	120	235	19711414
Boss Potable 5 Litre	5	100	-10	1.7	¾"	170	275	19711425
Boss Potable 8 Litre	8	100	-10	2.2	¾"	220	305	19711222
Boss Potable 12 Litre	12	100	-10	2.9	¾"	260	310	19711233
Boss Potable 18 Litre	18	100	-10	3.5	¾"	260	375	19711244
Boss Potable 24 Litre	24	100	-10	4.3	¾"	260	485	19711255
Boss Potable 35 Litre	35	100	-10	8	1"	380	470	19711436
Boss Potable 50 Litre	50	100	-10	9.9	1"	380	720	19711266
Boss Potable 60 Litre	60	100	-10	12.1	1"	380	830	19711384
Boss Potable 80 Litre	80	100	-10	14	1"	460	760	19711277
Boss Potable 100 Litre	100	100	-10	16	1"	460	880	19711288
Boss Potable 150 Litre	150	100	-10	25.5	1"	510	1030	19711447
Boss Potable 200 Litre	200	100	-10	37.5	1 ¼"	590	1070	19711307
Boss Potable 300 Litre	300	100	-10	50.5	1 ¼"	650	1250	19711329
Boss Potable 500 Litre	500	100	-10	86	1 ¼"	650	1780	19711351
Boss Potable 750 Litre	750	50	-10	153.5	R 2"	800	1820	19711362
Boss Potable 1000 Litre	1000	50	-10	183.5	R2 ½"	800	2130	19711373



PORTABLE 50 - 1000 Litres



PORTABLE 2 - 35 Litres

## Installation & Placement:

BOSS Potable 2-35 litres must be mounted with water connection pointing downwards.

BOSS Potable 50 -1000 litres are installed upright.

Apply PTFE tape to the connection.

For water installation must be fitted to the cold water feed pipe.

*Typical Installation Diagram (illustration purposes only) Model BOSS Potable*

