

PVH potable water

expansion vessels
horizontal range



altecnic
Caleffi group

PVH potable water expansion vessels - horizontal



Introduction

Altecnic offer a complete range of expansion vessels to meet the requirements of most heating systems and for use with potable water.

The expansion vessels are manufactured to meet the requirements of PED 97/23/EC Directive.

Design

Horizontal vessel with mounting plate for auxiliary equipment.

Manufactured in carbon steel with a two or three part weld construction.

Replaceable bladder except for 25 litre vessel.

Pre-pressurised air chamber with synthetic rubber compound bladder.

The internal surfaces of the vessel in contact with the water are coated against corrosion.

External surfaces have a blue durable powder coated finish.

Suitable for temperatures up to 70°C, resistant to ethylene or propylene glycol mixtures and has low gas permeability.

Altecnic expansion vessels are all tested according to the Pressure Systems Directive.

How It Works

In a closed hot water circuit, the water cannot be compressed so any increase in volume, created by an increase in temperature, has to be accommodated by an expansion vessel.

When water is cold, the pre-charge pressure forces the bladder to collapse until the pump is started when the bladder starts to inflate.

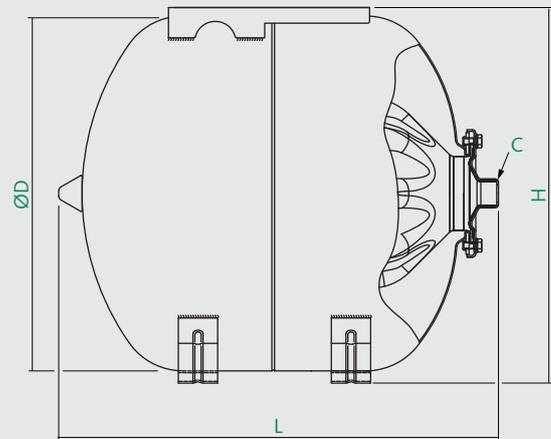
As the temperature in the system increases, with the associated increase in pressure and volume, the expanded water enters the bladder creating additional volume and lowering the pressure.

When the temperature decreases, the pre-charge pressure forces the water from the bladder and back into the main water circuit.

Materials

Component	Material
Shell	Carbon steel
Connections	Stainless steel
Bladder	Butyl elastomer
Coating	Powder epoxy

Dimensions



Product Code	Capacity litres	ØD mm	L mm	H mm	C Connection	Weight kg
PVH25W	25	280	520	293	G $\frac{3}{4}$ B	5.5
PVH50W	50	409	503	433	G1B	15
PVH80W	80	480	595	504	G1B	18
PVH100W	100	480	705	504	G1B	21

Technical Specification

Max. working pressure:	10 bar
Max. operating temperature:	70°C
Factory pre-charge:	2.0 bar - nitrogen
System water connection thread - male:	BS EN ISO 228
Replaceable bladder:	50 to 100 litre sizes
CE marked	
WRAS approved product	

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