

altecnic

SD 045 27-08-2020

HV W

heating expansion vessels 200 to 800 litres

Introduction

Altecnic offer a complete range of expansion vessels to meet the requirements of most heating or cooling systems.

Expansion vessels for heating systems are manufactured to meet the requirements of PED 97/23/EC Directive and BS EN 13831:2007 'Closed expansion vessels with built in diaphragm for installation in water'.

Nitrogen improves the life of the expansion vessel by reducing internal corrosion and prevents the loss of pre-charge pressure.

Nitrogen permeates through rubber slower than oxygen, is far less reactive to steel and does not degrade rubber prolonging the life of the membrane.

Design

The vessel is fabricated by welding the various sections together which results in a very reliable structure .

Non-replaceable diaphragm.

Epoxy coated in grey.

Supplied complete with feet

Suitable for flow temperatures up to 120°C, resistant to ethylene or propylene glycol mixtures and has low gas permeability.

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

How It Works

In a closed heating system 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 diaphragm against the tank towards the inlet.

As the temperature increases, the expanded water volume pushes against the diaphragm creating additional volume for the water to enter.

When the temperature decreases, the pre-charge pressure forces the water from the tank and back into the main heating system.

This maintains a constant pressure within the heating system helping to reduce energy consumption.

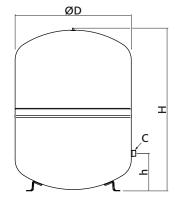
Component	Material	Ref No	Capacity	ØD	Н	h	С	Weight
Shell	Carbon Steel		litre	mm	mm	mm	Connection	kg
Connections	Carbon Steel	HV200W	200	634	760	205	R1	37
Diaphragm	Synthetic rubber	HV250W	250	634	890	205	R1	45
Coating	Powder Epoxy 6 bar	HV300W	300	634	1090	235	R1	52
Technical Specification		HV400W	40	740	1090	245	R1	65
Max. working pressure:		HV500W	500	740	1290	245	R1	79
Test pressure: Max. vessel operating temperature:	1.5 x max working pressure 70° C	HV600W	600	740	1530	245	R1	85
Factory pre-charge:	1.5 bar - nitrogen	HV800W	800	740	1995	245	R1	103
(€ marked								

$\ensuremath{\mathbb{C}}^{\ensuremath{\texttt{0}}}$ Patents & Design Altecnic 2020

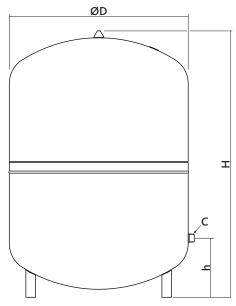
Altecnic Ltd retains all rights (including patents, designs and copyrights, trademarks and any other intellectual property rights) in relation to all information provided on or via the website, brochures or any other documents, including all texts, graphics and logos, contained on the website, in brochures or in any other documents published in the name of or on behalf of Altecnic Ltd in any form, without prior written consent of Altecnic Ltd.

Altecnic Ltd Mustang Drive, Stafford, Staffordshire ST16 1GW T: +44 (0)1785 218200 E: sales@altecnic.co.uk altecnic.co.uk Registered in England No: 2095101 E & O.E © Altecnic Limited. 2020 ALTECNIC[™]









300 to 800 litres