

expansion vessels 8 to 80 litres







VF potable expansion vessels - 8 to 80 litres



Introduction

Altecnic offer a complete range of expansion vessels to meet the requirements of potable water applications and cooling systems.

Expansion vessels for potable water systems are manufactured to meet the requirements for pressure vessels 2014/108/EC Directive

Design

The two halves of the vessel are welded together to give a pressure tight seal.

Bracket for wall or cabinet mounting.

Non-replaceable diaphragm.

Stainless steel connection.

Durable epoxy coated in blue.

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 Systems Directive.

How It Works

In a closed 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 system helping to reduce energy consumption.

Materials

Component Shell Connection Diaphragm Coating

Material

Carbon Steel Stainless Steel Synthetic rubber compound Powder Epoxy

Dimensions



Code	Capacity	А	В	С	ØD	E	Weight
	litres		mm	mm	mm	mm	kg
VF8D	8	R1⁄2	52	163	280	20	3.8
VF12D	12	R1⁄2	64	168	354	21	5.2
VF18D	18	R3⁄4	76	222	354	21	5.7
VF25D	25	R3⁄4	93	239	409	21	8.3
VF35D	35	R3⁄4	97	240	480	20	13.0
VF50D	50	R3⁄4	125	318	480	20	15.4
VF80D	80	R3⁄4	135	325	634	21	22.4

Technical Specification

Max. working pressure Max. flow operating temperature Max. vessel operating temperature Factory air pre-charge CE marked

120°C 70° C 4 bar - nitrogen

10 bar

PVA34L Shut-Off - Drain Valve

The 18 to 80 litre expansion vessels can be used with the PVA34L shut-off - drain valve with a protected shut-open facility to protect against inadvertent closure.



E & O.E

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