

# SF-HV W

expansion vessels  
8 to 35 litres



**reflex**

**altecnic**  
Caleffi group

# SF-HV W expansion vessels - 8 to 35 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'.

## Design

The expansion vessels are of welded construction for added strength and pressure integrity.

Non-replaceable diaphragm.

Epoxy coated in grey.

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 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.

## Materials

### Component

Shell	Carbon Steel
Connections	Carbon Steel
Diaphragm	Synthetic rubber compound
Coating	Powder Epoxy

### Material

## Technical Specification

Max. working pressure	6 bar
Test pressure	1.5 x max working pressure
Max. flow operating temperature	120°C
Max. vessel operating temperature	70°C
Factory pre-charge	1.5 bar - nitrogen

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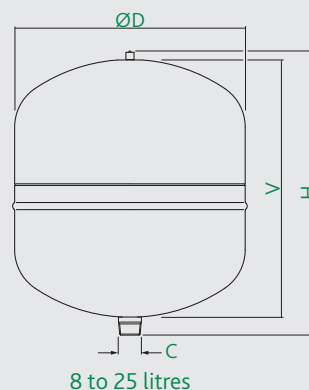
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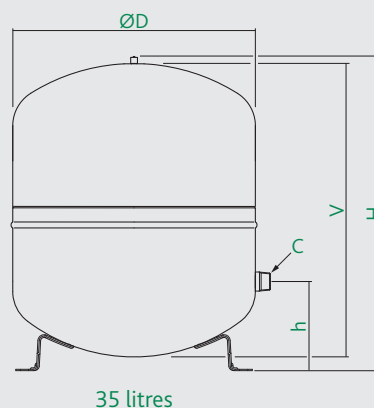
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## Dimensions



Prod Code	Capacity	ØD	H	V	C	Wt
	litres	mm	mm	mm	Connection	kg
SF-HV8W	8	206	285		R¾	1.6
SF-HV12W	12	280	275		R¾	2.4
SF-HV18W	18	280	345		R¾	3.4
SF-HV25W	25	280	465	433	R¾	4.2



Prod Code	Capacity	ØD	H	V	h	C	Wt
	litres	mm	mm	mm	mm	Connection	kg
SF-HV35W	35	354	460	448	175	R¾	4.8

CE marked

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