

HV F OEM heating

expansion vessels



reflex

altecnic

HV F OEM heating expansion vessels



Introduction

The Altecnic OEM heating expansion vessels are round with a compact flat design to meet the needs of boiler and heat interface unit manufacturers.

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 vessels are fabricated by clamping the two sections together which results in a very reliable structure suitable for internal pressures up to 3 bar.

The tanks are designed with no corners to trap sediment.

Epoxy coated in red - RAL 3013.

Suitable for temperatures up to 90°C, resistant to ethylene or propylene glycol mixtures.

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 presses the diaphragm against the tank.

As the temperature in the system increases, with the associated increase in pressure and volume, the expanded water pushes against the diaphragm and water enters the vessel, providing additional volume.

When the temperature decreases, the pre-charge pressure forces the water back into the main heating circuit, maintaining a constant pressure helping to reduce energy consumption.

Materials

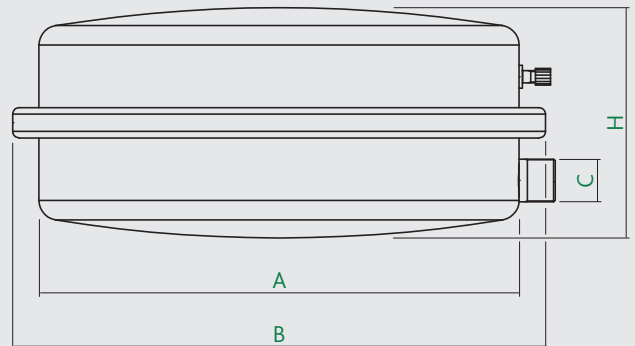
Component

| | |
|-------------|---------------|
| Shell | Carbon steel |
| Connections | Carbon steel |
| Diaphragm | Rubber - EPDM |
| Coating | Powder epoxy |

Material

Dimensions

Round flat expansions vessels



| Prod Code | Capacity | ØA | ØB | H | C |
|-----------|----------|-----|-----|-----|------------|
| | litres | mm | mm | mm | Connection |
| HV8F | 8 | 292 | 342 | 115 | G¾ |
| HV10F | 10 | 292 | 342 | 140 | G¾B |
| HV12F | 12 | 292 | 342 | 169 | G¾ |

Technical Specification

| | |
|-----------------------------|-------------------------|
| Max. working pressure: | 3 bar |
| Max. operating temperature: | 90°C |
| Factory pre-charge: | 1 to 1.5 bar - nitrogen |

E & O.E

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