

**For sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.**

Expansion vessels keep the pressure of the installation stable by temporarily absorbing the extra water volume that is generated by heating or cooling installations.

### Advantages

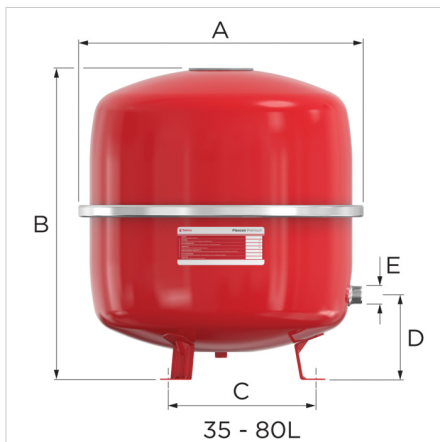
- Sustainable expansion vessels thanks to innovative technology.
- The Flexcon Premium expansion vessels have a plastic membrane (12 - 35 litres) made of thermoplastic polyolefin (TPO). The new membrane has a high flexibility and low permeability. The environmental performance of the new membrane is much better and TPO can be burned cleaner or recycled into products more effectively.
- The plastic membrane is much lighter because it requires up to 50% less material. This saves raw materials, energy (production) and fuel (transport) and results in a large reduction of CO2 emissions.
- The box is made from FSC certified cardboard and the version with the lowest available CO2 footprint has been selected.
- A long service life is guaranteed with a 15-year warranty and therefore also saves on maintenance.
- Extremely low permeability of the diaphragm ensures that pre-charge pressure is maintained for longer.
- The flexible diaphragms, with rolling action, are preformed and, in contrast to a bag type bladder, prevent stretching so that their properties are preserved over the long term.
- The two halves of the vessel are coated prior to assembly, not afterwards. Therefore there is no risk of corrosion on the clamp ring and the diaphragm does not have a service life-reducing thermal shock during production.
- The unique zinc plated steel clench ring construction clamps the diaphragm between the two deep drawn steel vessel halves. This not only ensures a perfect seal but also prevents mechanical damage of the diaphragm during use (load distribution over the entire clamping area and not at 1 central suspension point).
- The gas side is filled with nitrogen, and not with air, so that corrosion is prevented and the pressure loss is even more limited.
- The nitrogen air valve is countersunk on the vessel to protect it from damage, it is in turn further protected by a cover plate from recycled plastic.
- The ribbed profile on the diaphragm prevents it from sticking to the inside wall of the vessel and ensures inflow of expansion water at the slightest increase in pressure.
- The uncoated taper water connection thread ensures easy and water tight installation.
- Finished with a gleaming epoxy-powder coating.
- Each vessel is functionally tested before it leaves the factory.

### Technical Specifications

- Maximum working pressure: 6.0 bar.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum system temperature of 110 °C.
- Min./ max. temperature diaphragm: -10 / 90 °C.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.
- Flexcon Premium 35 - 80: With feet and including mounting kit.



Description	Flexcon Premium exp. vessel 80/2,5 [6bar]		
Order Code	16964		
GTIN	08712874169647		
Model	<u>Flexcon Premium 2 - 80 [6 bar]</u>		
Capacity [l]	80		
Pre- charge [bar]	2.5		
Dimensions	A [mm]	519	
	B [mm]	534	
	Ø C [mm]	360	
	D [mm]	140	
Diaphragm	Butyl		
Syst. conn. (E)	R 1"		
Weight [kg]	15.0		





**Classification General Data**

<b>Etim Group</b>	Pressurization and expansion systems
<b>Etim Class</b>	Membrane pressure expansion vessel
<b>Product Name</b>	Flexcon Premium 80/2,5 [6bar]
<b>Brand</b>	FLAMCO
<b>Product Type</b>	Heating Clench ring Vessel [6bar]
<b>Order Code</b>	16964
<b>GTIN</b>	08712874169647

**Attributes**

<b>Suitable for central heating</b>	Yes
<b>Suitable for cooling</b>	Yes
<b>Suitable for tap water</b>	No
<b>Suitable for solar collector circuit</b>	No
<b>Volume</b>	80 Litre
<b>Pre-pressure</b>	2.5 Bar
<b>Max. operating pressure</b>	6 Bar
<b>Medium temperature (continuous)</b>	-10 - 90 °C
<b>With fixed wall support</b>	No
<b>Vertical positioning</b>	Yes
<b>Horizontal positioning</b>	Yes
<b>With legs</b>	Yes
<b>With exchangeable membrane</b>	No
<b>Nominal diameter expansion connection</b>	1 inch (25)
<b>Outer pipe diameter, expansion connection</b>	33 Millimetre
<b>Connection</b>	External thread conical BSPT-R (ISO 7-1 / EN 10226-1)
<b>Material membrane/bladder</b>	TPO
<b>With vessel manifold</b>	No
<b>Colour</b>	Red
<b>With drain</b>	No
<b>Diameter</b>	484 Millimetre
<b>Height</b>	534 Millimetre
<b>Tilting height</b>	720.7 Millimetre
<b>With pressure gauge</b>	No
<b>With safety valve</b>	No
<b>With mounting material</b>	Yes
<b>Max. glycol mixture</b>	50 Percentage
<b>PED (Pressure Equipment Directive) compliant (2014/68/EU)</b>	Yes
<b>Certified according to Belgaqua</b>	No
<b>Certified according to SVGW for water</b>	No
<b>DVGW quality mark for water</b>	No
<b>Approved according to ACS</b>	No
<b>KIWA certified</b>	No
<b>Approved according to WRAS</b>	No