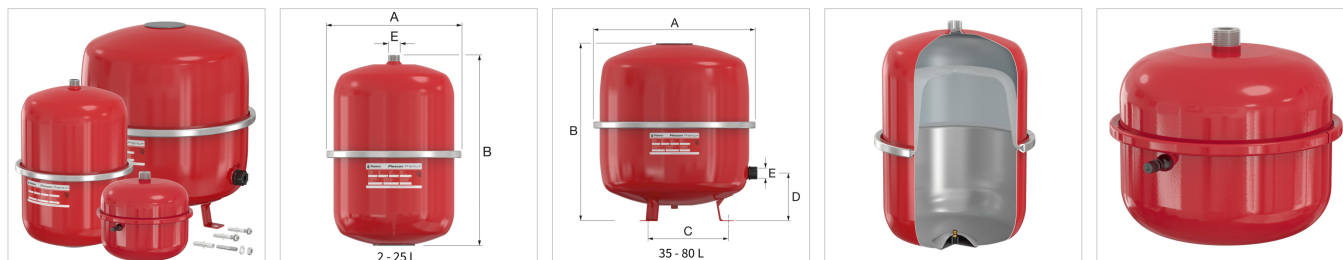



## Product Data Sheet


### Flexcon Premium 2 - 80 / 6 bar


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.



Type	Capacity [l]	Pre-charge [bar]	Dimensions				Diaphragm	Syst. conn. (E)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]	D [mm]					
Flexcon Premium 2 - 0.5 bar	2	0.5	216	144			Butyl	G 3/4" M	1.7	120	16937
Flexcon Premium 2 - 2.5 bar	2	2.5	216	144			Butyl	G 3/4" M	1.7	120	16938
Flexcon Premium 4 - 0.5 bar	4	0.5	216	192			Butyl	G 3/4" M	2.1	90	16939
Flexcon Premium 4 - 2.5 bar	4	2.5	216	192			Butyl	G 3/4" M	2.1	90	16940
Flexcon Premium 8 - 0.5 bar	8	0.5	245	277			Butyl	R 3/4"	3.2	50	16941
Flexcon Premium 8 - 2.5 bar	8	2.5	245	277			Butyl	R 3/4"	3.2	50	16942
Flexcon Premium 8 - specify	8	*	245	277			Butyl	R 3/4"	3.2	50	16943
Flexcon Premium 12 - 0.5 bar	12	0.5	286	309			TPO	R 3/4"	4.5	36	16944
Flexcon Premium 12 - 2.5 bar	12	2.5	286	309			TPO	R 3/4"	4.5	36	16945
Flexcon Premium 12 - specify	12	*	286	309			TPO	R 3/4"	4.5	36	16946

Type	Capacity [l]	Pre-charge [bar]	Dimensions				Diaphragm	Syst. conn. (E)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]	D [mm]					
<b>Flexcon Premium 18 - 0.5 bar</b>	18	0.5	286	405			TPO	R 3/4"	4.7	48	16947
<b>Flexcon Premium 18 - 2.5 bar</b>	18	2.5	286	405			TPO	R 3/4"	4.7	48	16948
<b>Flexcon Premium 18 - specify</b>	18	*	286	405			TPO	R 3/4"	4.7	48	16949
<b>Flexcon Premium 25 - 0.5 bar</b>	25	0.5	328	421			TPO	R 3/4"	5.8	25	16950
<b>Flexcon Premium 25 - 2.5 bar</b>	25	2.5	328	421			TPO	R 3/4"	5.8	25	16952
<b>Flexcon Premium 25 - specify</b>	25	*	328	421			TPO	R 3/4"	5.8	25	16953
<b>Flexcon Premium 35 - 0.5 bar</b>	35	0.5	396	435	263	118	TPO	R 3/4"	8.1	18	16954
<b>Flexcon Premium 35 - 2.5 bar</b>	35	2.5	396	435	263	118	TPO	R 3/4"	8.1	18	16956
<b>Flexcon Premium 35 - specify</b>	35	*	396	435	263	118	TPO	R 3/4"	8.1	18	16957
<b>Flexcon Premium 50 - 0.5 bar</b>	50	0.5	437	493	263	134	Butyl	R 3/4"	11.4	12	16958
<b>Flexcon Premium 50 - 1.0 bar</b>	50	1.0	437	493	263	134	Butyl	R 3/4"	11.4	12	16932
<b>Flexcon Premium 50 - 1.5 bar</b>	50	1.5	437	493	263	134	Butyl	R 3/4"	11.4	12	16959
<b>Flexcon Premium 50 - 2.5 bar</b>	50	2.5	437	493	263	134	Butyl	R 3/4"	11.4	12	16960
<b>Flexcon Premium 50 - specify</b>	50	*	437	493	263	134	Butyl	R 3/4"	11.4	12	16961
<b>Flexcon Premium 80 - 0.5 bar</b>	80	0.5	519	534	360	140	Butyl	R 1"	15.0	12	16962

Type	Capacity [l]	Pre-charge [bar]	Dimensions				Diaphragm	Syst. conn. (E)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]	D [mm]					
<b>Flexcon Premium 80 - 1.0 bar</b>	80	1.0	519	534	360	140	Butyl	R 1"	15.0	12	16935
<b>Flexcon Premium 80 - 1.5 bar</b>	80	1.5	519	534	360	140	Butyl	R 1"	15.0	12	16963
<b>Flexcon Premium 80 - 2.5 bar</b>	80	2.5	519	534	360	140	Butyl	R 1"	15.0	12	16964
<b>Flexcon Premium 80 - specify</b>	80	*	519	534	360	140	Butyl	R 1"	15.0	12	16965

\* Specify pre-charge pressure when ordering.



## 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 CO<sub>2</sub> emissions.
- The box is made from FSC certified cardboard and the version with the lowest available CO<sub>2</sub> footprint has been selected. The manual is printed on FSC certified paper.
- 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 profile on the diaphragm prevents it from sticking to the inside wall of the vessel and ensures inflow of expansion water at the earliest 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 120 °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.



### Find more information online:

[Installation and operating instruction](#)  
[Declaration of conformity PED 2014/68/EU](#)  
[CE Declaration of Conformity Module A](#)  
[CE Declaration of Conformity Module B](#)  
[UKCA Declaration of conformity](#)  
[UKCA Declaration of Conformity Module A](#)  
[UKCA Declaration of Conformity Module B](#)  
[PED Module D](#)  
[PED Module D1](#)  
[Flexcon Premium 2 - 80 DWG](#)  
[Flexcon Premium 2 - 80 STEP](#)  
[Flexcon Premium 2 - 80 RFA](#)  
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[Install video Flexcon Premium](#)