Flexcon Solar 8 - 80

Product Data Sheet 2025/11/17

Expansion vessels specially designed for solar powered installations (acc. to EN12828).



Advantages

- The best expansion vessels thanks to our groundbreaking technology.
- Diaphragm: butyl rubber.
- Extremely low permeability of the diaphragm ensures that pre-charge pressure is maintained for a long time.
- 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 unique clench ring construction clamps the diaphragm between the two 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 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 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.
- Uncoated water connection thread ensures easy and water tight installation.
- Top quality steel and diaphragms.
- Finished with a gleaming epoxy-powder coating.
- Each vessel is factory tested.
- Expansion vessels 8 - 80 litres:
  - The two halves of the vessel are coated prior to assembly, not afterwards. Therefore there is no risk of corrosion on the clamp ring.
  - The nitrogen air valve is countersunk on the vessel to protect it from damage, it is in turn further protected by a plastic cover plate.

Technical Specifications

- Maximum working pressure: 8.0 bar.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum system temperature of 120 °C.
- Min./ max. temperature diaphragm: -10 / 110 °C.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Deep drawn steel vessel halves with zinc plated steel clench ring.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- White (RAL 9010) epoxy powder coating.
- Flexcon Solar 35 - 80: With feet and including mounting kit.

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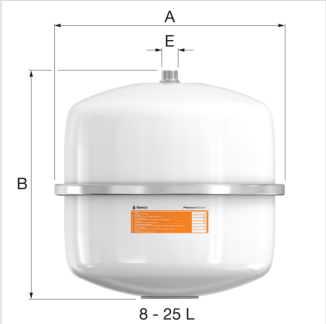

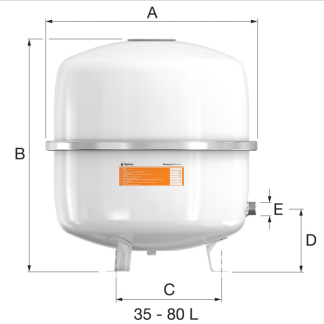







Type	Capacity [l]	Pre-charge [bar]	Dimensions				Syst. conn. (E)	Weight [kg]	-	Order Code
			A [mm]	B [mm]	Ø C [mm]	D [mm]				
Flexcon Solar 8/2.5 [8bar]	8	2.5	245	277	-	-	R 3/4"	3.2	50	16060
Flexcon Solar 12/2.5 [8bar]	12	2.5	286	309	-	-	R 3/4"	4.5	36	16061
Flexcon Solar 18/2.5 [8bar]	18	2.5	328	323	-	-	R 3/4"	5.7	24	16062
Flexcon Solar 25/2.5 [8bar]	25	2.5	358	356	-	-	R 3/4"	7.3	18	16063
Flexcon Solar 35/2.5 [8bar]	35	2.5	396	435	263	118	R 3/4"	8.1	18	16064
Flexcon Solar 50/2.5 [8bar]	50	2.5	437	493	263	134	R 3/4"	11.4	12	16065
Flexcon Solar 80/2.5 [8bar]	80	2.5	519	534	360	140	R 1"	15.0	12	16066









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Find more information online:

Installation and operating instruction
EU Declaration of conformity PED Module A
EU Declaration of conformity PED Module D1
Declaration of conformity UKCA
Flexcon Solar ADSK
Flexcon Solar DWG
Flexcon Solar IPT
Flexcon Solar STEP
Flexcon Solar 35 - 80 RFA
White paper Expansion vessel in a solar installation
Packaging data

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