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VSG VESSEL

expansion vessel for temperature reducing in solar systems
capacity: from 5 - 400 litres

Advantages

An additional tank is recommended for solar systems when the fluid volume between the collector and the expansion vessel is approximately 50% or less than the 'wet' side volume. The additional tank protects the membrane from excessive temperatures by allowing a decrease in temperature of the solar liquid in the expansion system.

Technical and dimensional data

Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Connection
VSG 5	11A0000512	5	160 mm	270 mm	-	No2 x 3/4"G
VSG 8	11A0000837	8	200 mm	280 mm	-	No2 x 3/4"G
VSG 12	11A0001216	12	270 mm	264 mm	-	No2 x 3/4"G
VSG 18	11A0001836	18	270 mm	349 mm	-	No2 x 3/4"G
VSG 35	11A0003510	35	380 mm	367 mm	125 mm	No2 x 3/4"G
VSG 50	11A0005022	50	380 mm	505 mm	146 mm	No2 x 3/4"G
VSG 105	11A0010518	105	500 mm	665 mm	165 mm	No2 x 1"G
VSG 200	11A0020013	200	600 mm	812 mm	225 mm	No2 x 1"G
VSG 400	11A0040017	400	630 mm	1450 mm	245 mm	No2 x 1"G

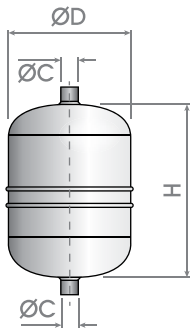
Material description

Description	Material
Shell	Carbon Steel
Connections	Carbon Steel
Colour	White

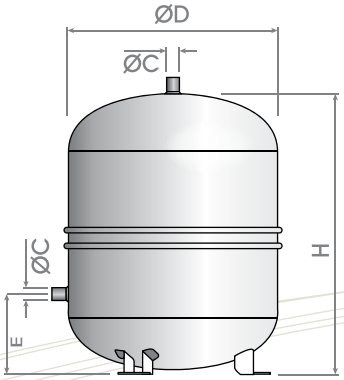
Operating conditions

Maximum operating pressure	10 bar
Operating temperature	-10°C - 110°C

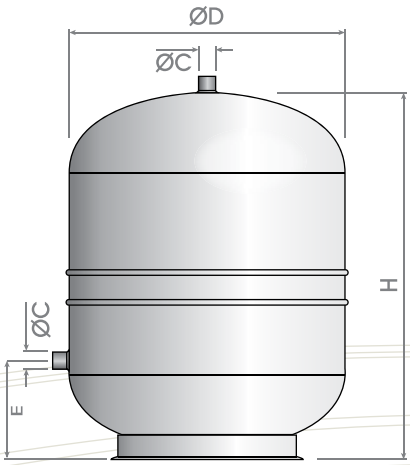
Technical drawings



5 - 18 Litres



35 - 50 Litres



105 - 400 Litres

Operation of VSG vessel

When there is excessively high temperature in the solar energy system (in some cases even vapour), the hot fluid mixes with the cold stagnant fluid in the additional tank VSG. Therefore we have a cooling of the hot fluid dispersion in the VSG tank. In this way the membrane of the SOLARPLUS vessel is protected from the excessive temperatures.