

Eres solar expansion vessels

Introduction

Eres expansion vessels are manufactured to meet the requirements of PED 97/23/EC Directive, are suitable for closed solar energy heating systems in accordance with DIN4757-2 'Solar heating plants operating on organic media; Requirements relating to safe design and construction' and BS EN 12977 & DD CEN/TS 12977 'Thermal solar systems and components. Custom built systems & performance test methods'.

Design

The vessels are fabricated by welding the various sections together which results in a very reliable structure suitable for internal pressures up to 10 bar.

Epoxy coated and available in white.

The Eres diaphragm has been specially developed for solar applications.

Suitable for temperatures up to 130°C, resistant to ethylene or propylene glycol mixtures and has low gas permeability.

In the event that the diaphragm within the expansion vessel could be subjected to continuous temperatures above 100°C, the vessel must be protected by an additional vessel (VDI 6002 directive).

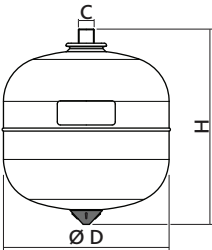
Technical Data

Max. working pressure:	10 bar
(SX-24MFO)	8 bar)
Operating temperature range:	-10 to 100°C
Transient peak temperature:	130°C
Factory air pre-charge pressure:	1.5 bar
5 to 24 litre diaphragm:	fixed
35 to 700 litre diaphragm:	replaceable

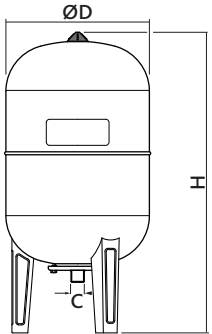
Materials

Shell:	carbon steel
Connections:	carbon steel
Diaphragm elastomer:	EPDM
Coating:	Epoxy powder

Dimensions



Prod Code	Capacity	ØD	H	C
SX-5SMFO	5 litres	200	240	G¾B
SX-8SMFO	8	200	335	G¾B
SX-12SMFO	12	270	302	G¾B
SX-18SMFO	18	270	405	G¾B
SX-24SMFO	24	320	425	G¾B



Prod Code	Capacity	ØD	H	C
SX-35SMRP	35 litres	360	615	G1B
SX-50SMRP	50	360	750	G1B
SX-80SMRP	80	450	750	G1B
SX-100SMRP	100	450	850	G1B
SX-200SMRP	200	485	1400	G1½B
SX-300SMRP	300	485	1965	G1½B
SX-500SMRP	500	600	2065	G1½B
SX-700SMRP	700	700	2215	G1½B

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