

Eres solar intermediate vessels

Introduction

Eres intermediate vessels are manufactured to meet the requirements of Pressure Equipment Directive 2014/68/EU, 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'.

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

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.

Intermediate vessels do not contain a diaphragm but act as a buffer vessel.

Epoxy coated and available in white.

Installation

The intermediate vessel should be installed between the solar collector and the expansion vessel.

The function of the vessel is to avoid premature ageing of the diaphragm in the expansion vessel caused by water contacting the diaphragm at too high a temperature.

The intermediate vessel hold a quantity of water which is allowed to cool and it is this cooled water which enters the expansion vessel.

Technical Data

Max. working pressure:	10 bar
Operating temperature range:	-10 to 100°C

Materials

Shell:	carbon steel
Connections:	carbon steel
Coating:	epoxy powder

Altecnic Ltd Mustang Drive, Stafford, Staffordshire ST16 1GW

T: +44 (0)1785 218200 E: sales@altecnic.co.uk

Registered in England No: 02095101

altecnic.co.uk

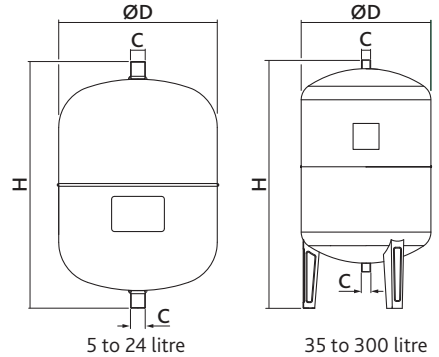
IOM 128 23-02-2022

E & O.E

© Altecnic Limited. 2022

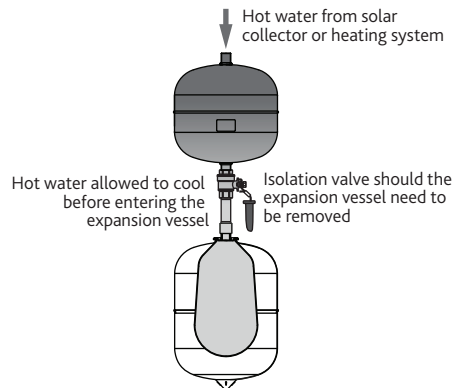
ALTECNIC™

Dimensions



Prod Code	Capacity	ØD	H	C
SX-VI0005	5 litres	200	250	G¾B
SX-VI0008	8	200	340	G¾B
SX-VI0012	12	270	310	G¾B
SX-VI0018	18	270	415	G¾B
SX-VI0024	24	320	430	G¾B
SX-VI0035	35	360	615	G1B
SX-VI0050	50	360	750	G1B
SX-VI0100	100	450	870	G1B
SX-VI0200	200	550	1135	G1½B
SX-VI0300	300	650	1180	G1½B

Typical Installation



altecnic