569 intermediate pressure vessels



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Introduction

Altecnic intermediate vessels are manufactured to meet the requirements of the Directive and Regulations listed and are suitable for heating and solar systems.

Complies with:

PED 2014/68/EU

Pressure Equipment (Safety) Regulations 2016: Great Britain Pressure Equipment (Safety) Regulations 2016: Northern Ireland The Altecnic 569 intermediate vessels (buffer tanks) are primarily designed for use with domestic or small commercial heat pumps. The have two main functions as a hydraulic separator or buffer tank. The hydraulic separator makes the heat pump flow rates and terminal flow rates unconnected.

The buffer function reduces the heat pump on/off switching.

Design

Vessel are of steel construction with an external paint finish and are suitable for internal pressures up to 4 bar.

The vessel are designed for wall mounting and as supplied with two mounting brackets.

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

Intermediate vessels are tested according to the Pressure Systems Directive.

How It Works

An expansion vessel must ensure the heating/cooling system can work safely, particularly during periods when hot water is not being drawn off.

The water in the system can reaches temperatures up to 200°C and consequently the fluid within the system can either evaporate or reach levels that can damage all the components within the energy system over time.

In the event that the diaphragm within the expansion vessel could be subjected to temperatures above 110°C, an intermediate vessel (VDI 6002 directive) must be provided to protect the diaphragm.

Application

Intermediate vessels should be installed in closed solar or heating systems containing water treated to prevent corrosion.

If the return temperature in solar installation exceeds 100 $^\circ C$ or in a heating system exceeds 70 $^\circ C$ an intermediate vessel should be installed.

The intermediate vessel should be installed between the heat/cooling source and the expansion vessel.

The function of the vessel is to avoid premature ageing of the diaphragm in the expansion vessel caused by water entering 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.

Dimensions



Ref No	Vol litres	А	В	с	D	E	Wt kg
569008	8.3	1"	1"	382	260	126	6.5
569012	12.4	1"	1"	526	254	270	7.5
569025	25	1¼"	1"	790	290	520	11
569050	51	1¼"	1"	1008	343	600	16
569080	81	1¼"	1¼"	745	450	400	18
569100	95	1¼"	1¼"	870	450	525	24

Technical Specification

Maximum operating tempera	ature: -10 to 95°C		
Maximum operating pressure	e: 4 bar		
Threads:	BS EN ISO 227		
Cylinder material:	Steel		
External coating:	Grey PVC		
Insulation:	High thermal insulation with		
	ecological polyurethane hard foam		

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Altecnic Ltd Mustang Drive, Stafford, Staffordshire ST16 1GW T: +44 (0)1785 218200 E: sales@altecnic.co.uk

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