PRODUCT GUIDE 2025

ZILMET®

Zilmet. Trusted worldwide for expansion vessel excellence.

Discover Zilmet UK's extensive range of high-quality expansion vessels, designed for both heating and potable water systems. Backed by the rich heritage of our Italian headquarters, Zilmet Spa, we combine decades of manufacturing expertise with cutting-edge innovation to deliver products you can depend on.

Our offering includes one of the widest selections available, all stocked here in the UK, with solutions to suit a variety of applications - from domestic to commercial. Every vessel is built with precision, ensuring durability, safety, and optimal performance.

The Zilmet name is trusted around the globe, recognised for its uncompromising quality and forward-thinking approach. With a truly international presence, our brand stands for reliability, engineering excellence, and peace of mind.

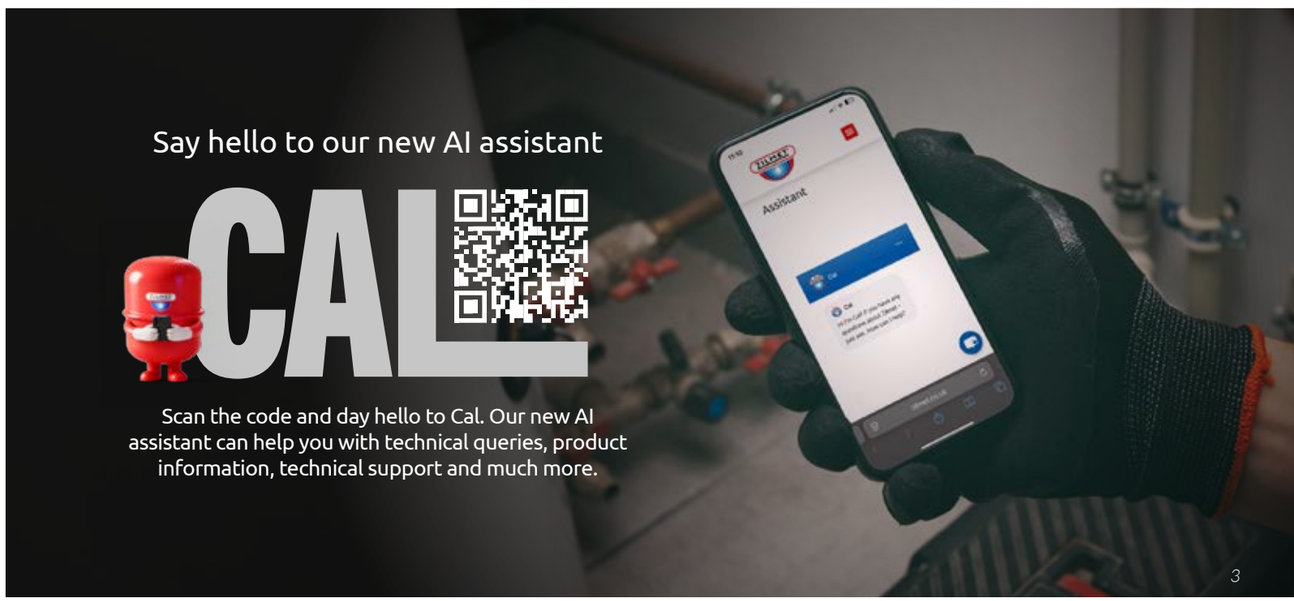
Contents

Heating Buffer Potable Solar OEM Accessories

Say hello to our new AI assistant

CAL

Scan the code and day hello to Cal. Our new AI assistant can help you with technical queries, product information, technical support and much more.



EXPANSION VESSELS FOR HEATING SYSTEMS

Zilmet's extensive CAL-PRO range of expansion vessels was specifically designed and engineered for use on heating systems.

04. CAL-PRO

CAL-PRO

Expansion vessels for heating systems

Capacity: from 4 - 900 litres

Application

The CAL-PRO range of expansion vessels is designed to be installed onto closed-loop heating systems and air source heat pumps, to absorb expansion and increases in volume incurred when the fluid temperature is increased.

Technical features

Mild steel shell, synthetic SBR rubber, up to 50% glycol mix, vessels are painted externally with a long-lasting epoxy powder coating and are 100% factory tested.

Certification

Got a technical or product question? **Ask Cal** Our new AI assistant

Technical and dimensional data

Model	Our ref	Capacity (Ltr)	Ø Diameter	Height	E	Connection
CAL-PRO 4	1300000400B	4	225mm	195mm	-	3/4˝G
CAL-PRO 8	1300000800B	8	220mm	295mm	-	3/4˝G
CAL-PRO 12	1300001200B	12	294mm	281mm	-	3/4˝G
CAL-PRO 18	1300001800B	18	290mm	400mm	-	3/4˝G
CAL-PRO 24	1300002400B	24	324mm	415mm	-	3/4˝G
CAL-PRO 4	1300000400	4	225mm	195mm	-	3/4˝G
CAL-PRO 8	1300000800	8	220mm	295mm	-	3/4˝G
CAL-PRO 12	1300001200	12	294mm	281mm	-	3/4˝G
CAL-PRO 18	1300001800	18	290mm	400mm	-	3/4˝G
CAL-PRO 24	1300002400	24	324mm	415mm	-	3/4˝G
CAL-PRO 35*	1300003503	35	404mm	387mm	119	3/4˝G
CAL-PRO 50*	1300005003	50	407mm	507mm	157	3/4˝G
CAL-PRO 80	1300008000	80	450mm	608mm	150	3/4˝G
CAL-PRO 105	1300010500	105	500mm	665mm	165	3/4˝G
CAL-PRO 150	1300015000	150	500mm	897mm	216	3/4˝G
CAL-PRO 200	1300020000	200	600mm	812mm	225	3/4˝G
CAL-PRO 250	1300025000	250	630mm	957mm	245	3/4˝G
CAL-PRO 300	1300030000	300	630mm	1105mm	245	3/4˝G
CAL-PRO 400	1300040000	400	630mm	1450mm	245	3/4˝G
CAL-PRO 500	1300050000	500	750mm	1340mm	290	1˝G
CAL-PRO 600	1300060000	600	750mm	1555mm	290	1˝G
CAL-PRO 700	1300070000	700	750mm	1755mm	290	1˝G
CAL-PRO 800	1300080000	800	750mm	1855mm	290	1˝G
CAL-PRO 900	1300090000	900	750mm	2105mm	290	1˝G

* With Feet B: with bracket

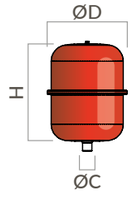
Material description

Description	Material
Shell	Carbon Steel
Connections	Carbon Steel
Membrane	SBR synthetic rubber
Colour	Red

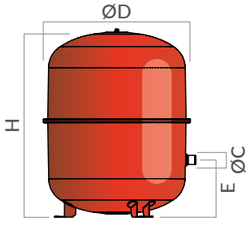
Operating conditions

Maximum working pressure 4-8 litres	5 bar
Maximum working pressure 12-50 litres	4 bar
Maximum working pressure 80-900 litres	6 bar
Maximum operating temperature	90°C
Factory pre-charge 4-8 litres	1.5 bar
Factory pre-charge 12-50 litres	2 bar
Factory pre-charge 80-900 litres	2.5 bar

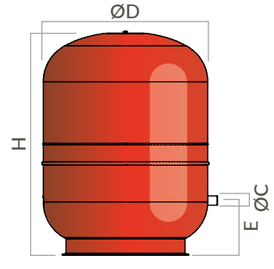
Technical drawings



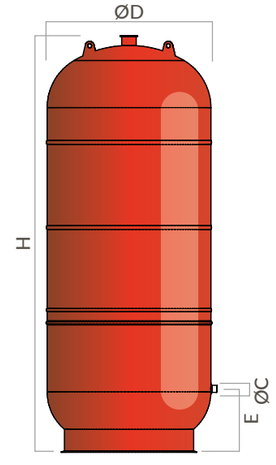
4 - 24 Litres



35 - 50 Litres



80 - 250 Litres



300 - 900 Litres

ZIL-B

INSULATED BUFFER VESSEL

Maintains a minimum volume of water 'in circuit' during a period of low heating demand. High efficiency thermal insulation minimises heat loss and helps retain surplus energy.

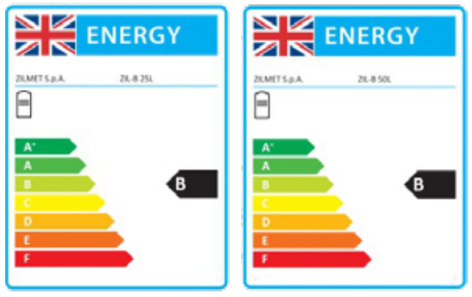
Capacity: from 25 - 100 litres

Application

The Zil-B insulated buffer vessel is often used in conjunction with air source heat pumps, to help optimise system performance, improve efficiency and increase longevity.

Features

- Available in 25, 50,80 & 100 litre capacities.
- Provides a bypass route to maintain the minimum volume through the heat pump if heating zones have shut down.
- Acts as a hydraulic separation between primary and secondary circuits.
- Premium polyurethane foam insulation with minimal heat loss.
- Reduces compressor pump short cycling, improving the operating efficiency of heat pumps.
- An adjustable wall bracket engineered to accomodate surface irregularities during installation, ensuring secure and level mounting.
- Additional connections for venting and drainage.



*25L

*50L

Got a technical or product question? **Ask Cal** Our new AI assistant

Model	Description
1910050015	Buffer vessel feet

Technical and dimensional data

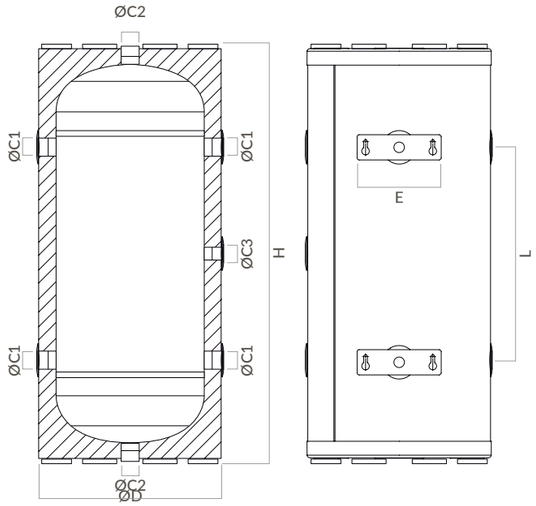
Model	Description	C1	C2	C3	H	L	D	E
16B0002500	25 Litre wall / floor buffer vessel	1″	3/4″	-	925	480	Ø290	160
16B0005000	50 Litre wall / floor-mounted buffer vessel	1″	3/4″	-	1008	580	Ø360	160
16B0008000	80 Litre floor-mounted buffer vessel	1 1/4″	1 1/4″	1/2″	891	365	Ø469	160
16B0010000	100 Litre floor-mounted buffer vessel	1 1/4″	1 1/4″	1/2″	1071	545	Ø469	160

* 80L + 100L variants includes an additional 1/2" connection

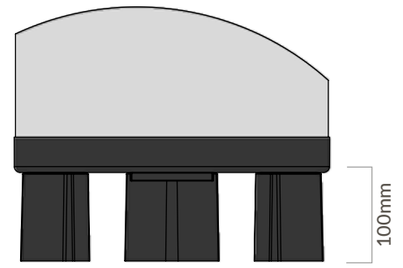
Operating conditions

Maximum operating pressure	4 bar
Maximum operating temperature	95°C
Fluid type	Water
Glycol mix	Up to 50%

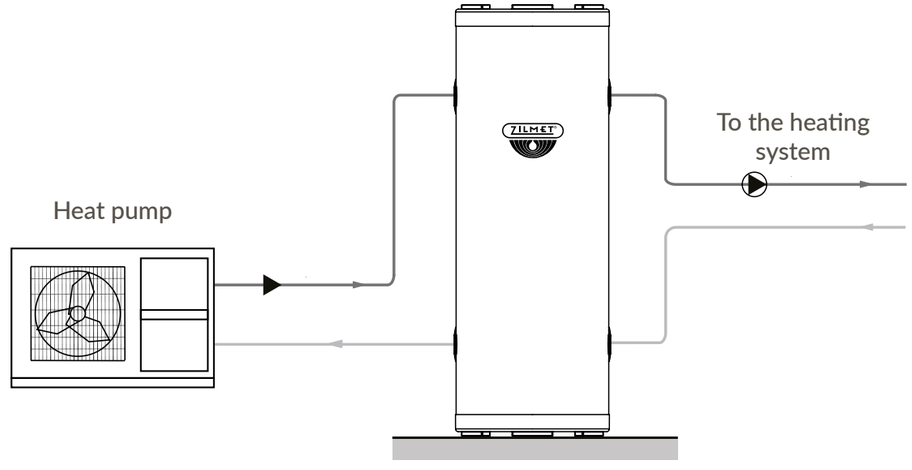
Dimensions



Additional foot accessory



Installation example



VOLUMISER VESSEL

Capacity: from 5 - 50 litres

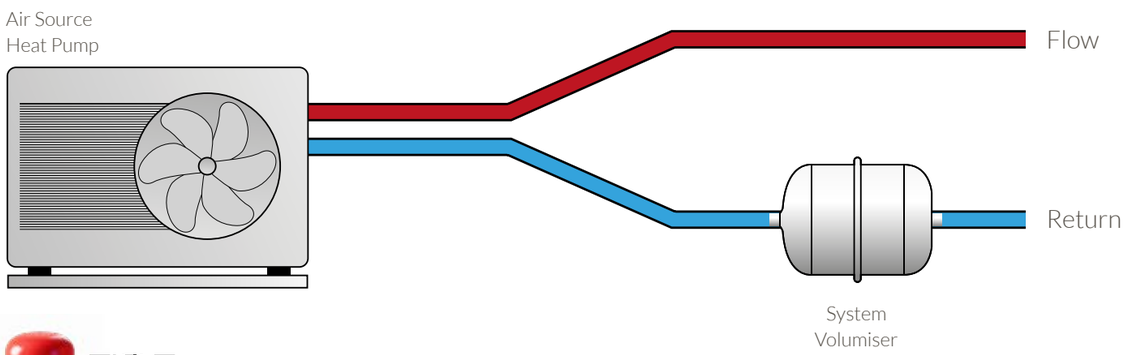
Application

The Zilmet Volumiser vessel is often used in conjunction with air source heat pumps (ASHPs) to help optimise system performance, improve efficiency and increase longevity.

Technical features

- Stores additional volume.
- Improves the operating efficiency of heat pumps.
- Reduces compressor pump short cycling.

Installation



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Technical and dimensional data

Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Connection
5L Volumiser Vessel	11A0000512	5	160mm	270mm	-	No2 x 3/4˝ BSP
12L Volumiser Vessel	11A0001255	12	270mm	264mm	-	No2 x 1˝ BSP
18L Volumiser Vessel	11A0001867	18	270mm	349mm	-	No2 x 1˝ BSP
24L Volumiser Vessel	11A0002467	24	300mm	392mm	-	No2 x 1˝ BSP
35L Volumiser Vessel	11A0003527	35	380mm	367mm	135mm	No2 x 1˝ BSP
50L Volumiser Vessel	11A0005047	50	380mm	505mm	153mm	No2 x 1˝ BSP

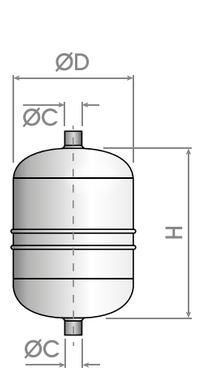
Material description

Description	Material
Shell	Carbon Steel
Connections	Carbon Steel
Colour	White

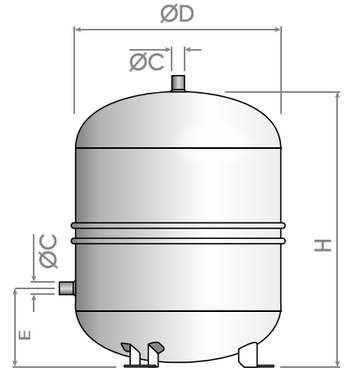
Operating conditions

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

Technical drawings



5 - 18 Litres



35 - 50 Litres

EXPANSION VESSELS FOR POTABLE WATER

Our extensive range of expansion vessels specifically designed and engineered for use on potable water systems.

HYDRO-PLUS E

Expansion vessel for potable water

Capacity: from 5 - 600 litres

Application

When dealing with areas of poor water quality, standard expansion vessels can suffer from reduced performance. The HYDRO-PLUS E expansion vessel is specifically designed to combat this challenge.

Technical features

The HYDRO-PLUS E expansion vessel features an internal polypropylene liner that creates a protective barrier between the water and the vessel shell, significantly reducing the risk of internal corrosion and deterioration.

Available in capacities ranging from 5 to 600 litres, the HYDRO-PLUS E offers a wide range of solutions for various system sizes. Selected models also include a durable poly base for safe, stable, and secure installation.

Certification

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Technical and dimensional data

Wall-mounted vessels

Model	Code	Capacity (Ltr)	D	H	C
5L HYDRO-PLUS E	11E0000500	5	160mm	270mm	3/4˝G
8L HYDRO-PLUS E	11E0000800	8	200mm	280mm	3/4˝G
12L HYDRO-PLUS E	11E0001200	12	270mm	264mm	3/4˝G
18L HYDRO-PLUS E	11E0001800	18	270mm	349mm	3/4˝G
24L HYDRO-PLUS E	11E0002400	24	300mm	392mm	1˝G

Floor standing vessels

Model	Code	Capacity (Ltr)	D	H	E	C
35L HYDRO-PLUS E	11A0003535	35	380mm	367mm	135mm	1˝G
50L HYDRO-PLUS E	11A0005035	50	380mm	505mm	153mm	1˝G
80L HYDRO-PLUS E	11A0008035	80	450mm	683mm	40mm	1˝G
105L HYDRO-PLUS E	11A0010535	105	500mm	741mm	40mm	1 1/4˝G
129L HYDRO-PLUS E	11A0012935	129	500mm	862mm	40mm	1 1/4˝G
150L HYDRO-PLUS E	11A0015035	150	500mm	973mm	40mm	1 1/4˝G
207L HYDRO-PLUS E	11A0020735	207	500mm	1246mm	40mm	1 1/4˝G
250L HYDRO-PLUS E	11A0025035	250	630mm	1045mm	52mm	1 1/4˝G
300L HYDRO-PLUS E	11A0030035	300	630mm	1193mm	52mm	1 1/4˝G
450L HYDRO-PLUS E	11A0045035	450	630mm	1745mm	52mm	1 1/4˝G
500L HYDRO-PLUS E	11A0050035	500	750mm	1340mm	290mm	1 1/4˝G
600L HYDRO-PLUS E	11A0060035	600	750mm	1460mm	290mm	1 1/4˝G

*With base 80-450L

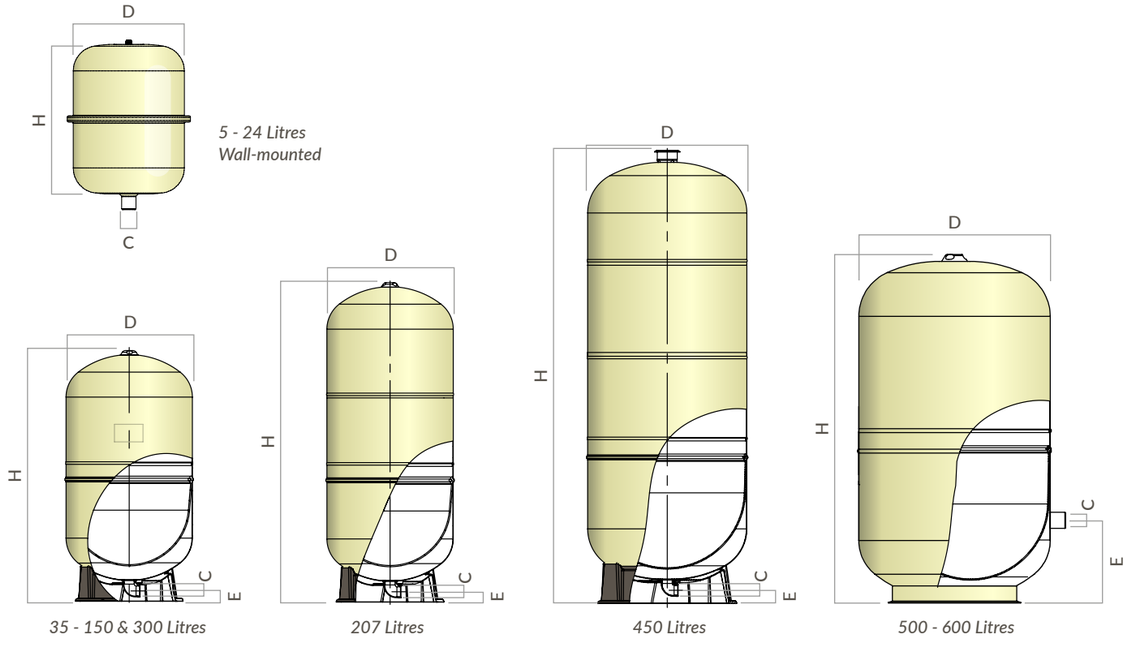
Material description

Description	Material
Shell	MIG Welded Carbon Steel
Liner	Polypropylene
Connections	Stainless Steel
Membrane	Butyl
Colour	Almond

Operating conditions

Operating temperature	-10°C - 99°C
Maximum working pressure	10 bar
Factory pre-charge	2 bar

Technical drawings



Potable

EXPANSION VESSELS FOR POTABLE WATER

ULTRA-PRO

Expansion vessels for potable water

Capacity: from 12 - 1000 litres

Application

The ULTRA-PRO expansion vessel is designed for use on potable water systems. ULTRA-PRO is widely used within the unvented market and is a common sight alongside many hot water cylinders. Its unique, versatile construction and extensive volume ranging from 12 - 1000 litres demonstrates that ULTRA-PRO is the best choice.

Technical features

MIG welded carbon steel body without internal rough spots or sharp edges. Replaceable bladder suitable for use with potable water. Painted externally with long-lasting epoxy powder. Mild steel or stainless steel flanges for use with aggressive water.

Certification

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Technical and dimensional data

Wall-mounted expansion vessels with welded bracket

Model	Code	Capacity (Ltr)	Ø Diameter	Height	Maximum Pressure	Pre-charge	Connection
12L ULTRA-PRO	1100001223	12	270mm	310mm	10 bar	3 bar	3/4˝ BSP
12L ULTRA-PRO	1100001220	12	270mm	290mm	10 bar	3 bar	22mm compression
18L ULTRA-PRO	1100001955	18	270mm	410mm	10 bar	3 bar	3/4˝ BSP
18L ULTRA-PRO	1100001951	18	270mm	394mm	10 bar	3 bar	22mm compression
24L ULTRA-PRO	11000024L3	24	270mm	483mm	10 bar	3 bar	3/4˝ BSP
24L ULTRA-PRO	11000024J1	24	270mm	462mm	10 bar	3 bar	22mm compression
35L ULTRA-PRO	1100003505	35	380mm	400mm	10 bar	1.5 bar	3/4˝ BSP

Floor standing expansion vessels - horizontal

Model	Code	Capacity (Ltr)	Ø Diameter	Height	L	Maximum Pressure	Pre-charge	Connection
24L ULTRA-PRO	11000024A8	24	270mm	290mm	485mm	10 bar	1.5 bar	3/4˝ BSP
24L ULTRA-PRO	1100002406	24	270mm	290mm	485mm	10 bar	1.5 bar	1˝ BSP
50L ULTRA-PRO	1100005007	50	380mm	410mm	560mm	10 bar	1.5 bar	1˝ BSP
60L ULTRA-PRO	1100006007	60	380mm	410mm	640mm	10 bar	1.5 bar	1˝ BSP
80L ULTRA-PRO	1100008007	80	450mm	480mm	640mm	10 bar	1.5 bar	1˝ BSP
100L ULTRA-PRO	1100010007	100	450mm	480mm	730mm	10 bar	1.5 bar	1˝ BSP
200L ULTRA-PRO	1100020007	200	550mm	580mm	985mm	10 bar	1.5 bar	1 1/2˝ BSP
300L ULTRA-PRO	1100030007	300	630mm	660mm	1140mm	10 bar	1.5 bar	1 1/2˝ BSP

Floor standing expansion vessels - vertical

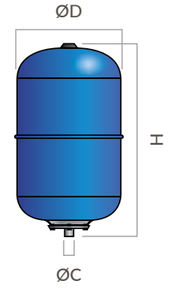
Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Maximum Pressure	Pre-charge	Connection
50L ULTRA-PRO	1100005006	50	380mm	770mm	180mm	10 bar	1.5 bar	1˝ BSP
60L ULTRA-PRO	1100006006	60	380mm	860mm	180mm	10 bar	1.5 bar	1˝ BSP
80L ULTRA-PRO	1100008006	80	450mm	830mm	153mm	10 bar	1.5 bar	1˝ BSP
100L ULTRA-PRO	1100010006	100	450mm	910mm	153mm	10 bar	1.5 bar	1˝ BSP
200L ULTRA-PRO	1100020006	200	550mm	1235mm	210mm	10 bar	1.5 bar	1 1/2˝ BSP
300L ULTRA-PRO	1100030006	300	630mm	1365mm	188mm	10 bar	1.5 bar	1 1/2˝ BSP
500L ULTRA-PRO	1100050006	500	750mm	1560mm	188mm	10 bar	1.5 bar	1 1/2˝ BSP
750L ULTRA-PRO	1100075057	750	750mm	2075mm	150mm	10 bar	2 bar	1 1/2˝ BSP
1000L ULTRA-PRO	1100100056	1000	850mm	2100mm	120mm	8 bar	2 bar	1 1/2˝ BSP

Material description

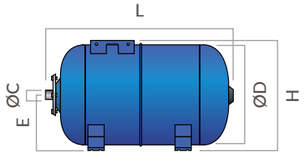
Description	Material
Shell	MIG Welded Carbon Steel
Membrane	Butyl / EPDM
Flange	Stainless Steel
Colour	Blue / White

Operating conditions

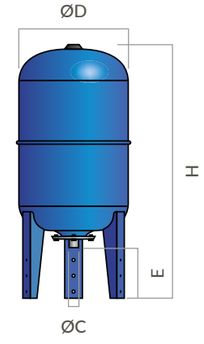
Maximum working pressure	10 bar (1000L 8 bar)
Operating temperature	-10°C - 99°C
Factory pre-charge	12-24L: 3 bar 35L: 1.5 bar



Wall-mounted expansion vessels with welded bracket



Floor standing expansion vessels - horizontal



Floor standing expansion vessels - vertical

INOX-PRO

Potable expansion vessel for anti-hammer and installations where hygiene is paramount.

Capacity: from 0.16 - 18 litres

Application

The INOX-PRO expansion vessel is designed for high-performance applications where both hygiene and durability are essential. Featuring a robust stainless-steel shell, these vessels are ideal for use in environments such as potable water systems, food processing facilities, and pharmaceutical installations. They effectively absorb thermal expansion to maintain stable system pressure and protect components from damage. In addition to expansion control, the INOX-PRO vessel is also commonly used as a shock arrestor, helping to reduce pressure spikes and noise caused by water hammer. This dual functionality makes them a versatile and reliable choice for a wide range of professional installations.

Technical features

Manufactured from high-quality 304-grade stainless steel, the INOX-PRO range is perfectly suited for environments where hygiene is a top priority. Each vessel is fitted with a Zilan® butyl membrane, ensuring long-lasting durability and optimal performance over time. Available in capacities ranging from 0.16 to 18 litres, the range covers a wide variety of application requirements, offering a reliable and versatile solution for both expansion control and water hammer protection.

Certification

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Technical and dimensional data

INOX-PRO stainless steel shock arrestors

Model	Code	Capacity (Ltr)	Ø Diameter	Height	Maximum Pressure	Pre-charge	Connection
0.16L INOX-PRO	11B000AA02	0.16	82mm	72mm	15 bar	3.5 bar	1/2˝G
0.16L INOX-PRO	11B000AA18	0.16	82mm	72mm	15 bar	3.5 bar	1/4˝G
0.16L INOX-PRO	11B000AA07	0.16	82mm	72mm	15 bar	3.5 bar	15mm
0.5L INOX-PRO	11B000BB00	0.5	94mm	119mm	15 bar	3.5 bar	1/2˝G inox
0.5L INOX-PRO	11B000BB02	0.5	94mm	119mm	15 bar	3.5 bar	1/2˝G inox

INOX-PRO stainless steel potable expansion vessels

Model	Code	Capacity (Ltr)	Ø Diameter	Height	Maximum Pressure	Pre-charge	Connection
1L INOX-PRO*	11B0000104	1	116mm	155mm	10 bar	3.5 bar	1/2˝G inox
1L INOX-PRO	11B0000100	1	116mm	155mm	10 bar	3.5 bar	1/2˝G inox
2L INOX-PRO	11B0000200	2	140mm	196mm	10 bar	3.5 bar	1/2˝G inox
8L INOX-PRO	11B0000800	8	198mm	275mm	10 bar	2.5 bar	3/4˝G inox
12L INOX-PRO	11B0001200	12	270mm	270mm	10 bar	2.5 bar	3/4˝G inox
18L INOX-PRO	11B0001800	18	270mm	349mm	10 bar	2.5 bar	1˝G inox

*Brushed finish

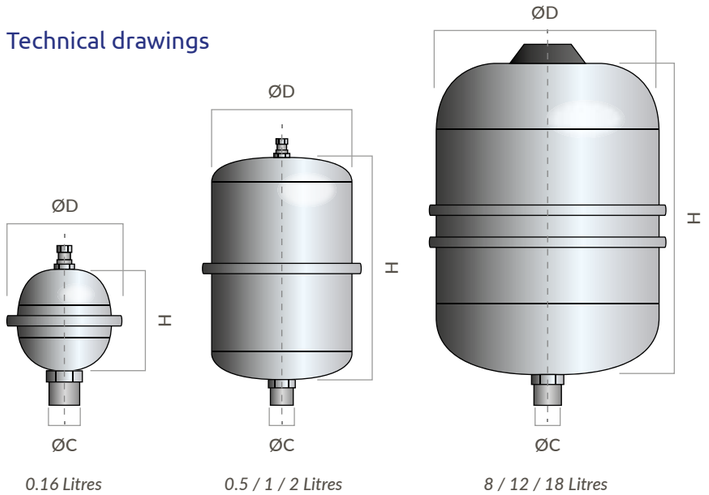
Material description

Description	Material
Shell	304 Grade Stainless Steel
Membrane	Butyl
Flange	Stainless Steel

Operating conditions

Maximum working pressure 0.16 - 0.5L	15 bar
Maximum working pressure 0.5 - 18L	10 bar
Maximum working temperature	-10°C - 99°C
Factory pre-charge 0.16 - 2L	3.5 bar
Factory pre-charge 8 - 18L	2.5 bar

Technical drawings



0.16 Litres *0.5 / 1 / 2 Litres* *8 / 12 / 18 Litres*

DID YOU KNOW?

Inox Pro vessels are widely used in systems prone to water hammer, offering an effective solution for reducing pressure spikes and protecting pipework. For optimal performance, the vessel should be installed as close as possible to the outlet affected by the hammer, ensuring maximum shock absorption and system stability.

ULTRA INOX-PRO

Expansion vessels for potable water

Capacity: from 24 - 100 litres

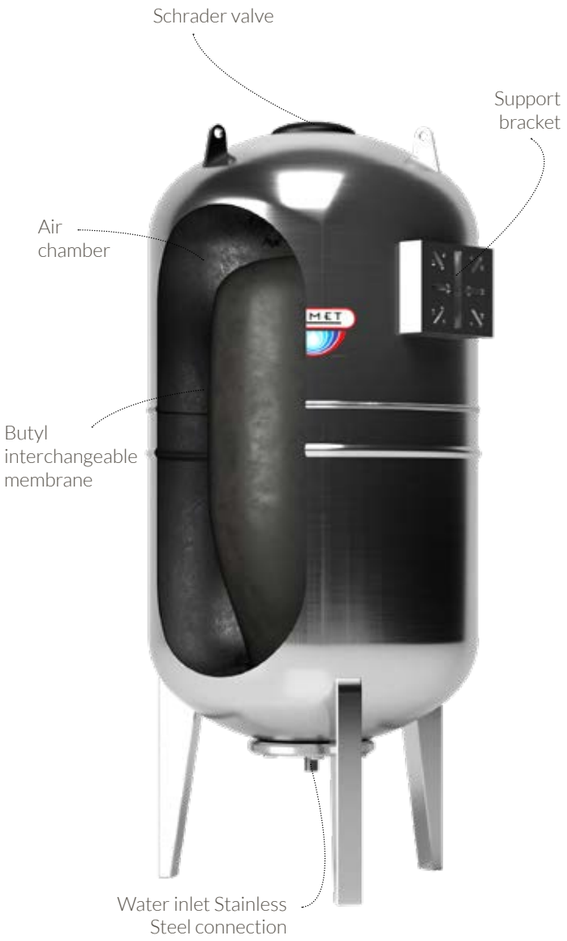
Application

The ULTRA INOX-PRO is constructed from 304-grade of stainless steel making the vessel ideal solution for applications where hygiene is paramount.

Technical features

The use of stainless steel with a membrane suitable for cold water, hot water and alimentary purposes is the main feature of this range of vessels. Our range of stainless steel expansion vessels is equipped with a non-toxic membrane suitable for contact with drinking water according to the British regulations. The high quality of materials, efficient manufacturing procedures and continuous quality control, these stainless steel expansion vessels allow long lasting operation with minimal special maintenance.

Certification



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Technical and dimensional data

Vertical vessels

Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Maximum Pressure	Pre-charge	Connection
ULTRA PRO-INOX 24 V	1110002403	24	270mm	485mm	-	10 bar	1.5 bar	3/4˝ - 1˝G
ULTRA PRO-INOX 100 V	1110010002	100	450mm	910mm	153mm	10 bar	1.5 bar	1˝G

Horizontal vessels

Model	Code	Capacity (Ltr)	Ø Diameter	Height	L	Maximum Pressure	Pre-charge	Connection
ULTRA PRO-INOX 24 H	1110002402	24	270mm	290mm	485mm	10 bar	1.5 bar	3/4˝ - 1˝G
ULTRA PRO-INOX 100 H	1110010003	100	450mm	480mm	730mm	10 bar	1.5 bar	1˝G

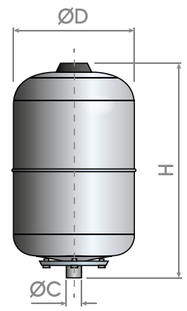
Material description

Description	Material
Shell	Stainless Steel
Membrane	Butyl
Flange	Stainless Steel

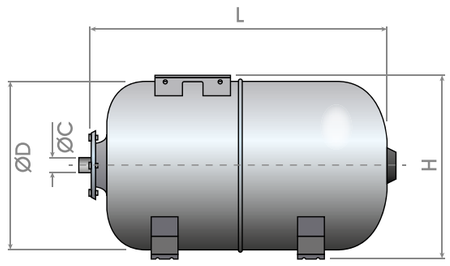
Operating conditions

Maximum working pressure	10 bar
Maximum working temperature	70°C
Factory pre-charge	1.5 bar

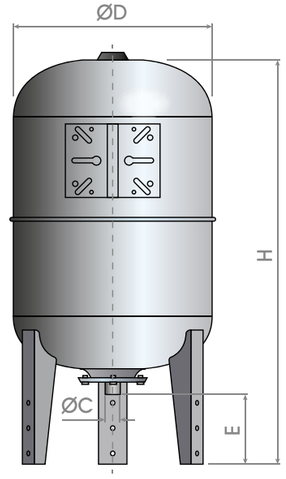
Technical drawings



24 Litres



100 Litres horizontal



100 Litres

Potable

EXPANSION VESSELS FOR POTABLE WATER

ULTRA-PRO 16 BAR

Expansion vessels for potable water

Capacity: from 24 - 500 litres

Application

The ULTRA-PRO 16 Bar expansion vessel is the ideal solution for applications which are subject to high pressure environments.

Technical features

MIG welded carbon steel body without internal rough spots or sharp edges. Replaceable bladder suitable for use with potable water. Painted externally with long-lasting epoxy powder. Equipped with high pressure flanges.

Certification

Got a technical or product question? Ask Cal Our new AI assistant

Technical and dimensional data

Vertical Vessels

Model	Code	Capacity (Ltr)	Ø Diameter	Height	Maximum Pressure	Pre-charge	Connection
ULTRA PRO 24*	11000024B6	24	270mm	290mm	16 bar	2 bar	1″G
ULTRA PRO 24	11000024B4	24	270mm	485mm	16 bar	2 bar	1″G
ULTRA PRO 100	1100010055	100	450mm	910mm	16 bar	2 bar	1″G
ULTRA PRO 200	1100020052	200	550mm	1235mm	16 bar	2 bar	1 1/2″G
ULTRA PRO 300	1100030048	300	630mm	1365mm	16 bar	2 bar	1 1/2″G
ULTRA PRO 500	1100050053	500	750mm	1560mm	16 bar	2 bar	1 1/2″G

*Horizontal

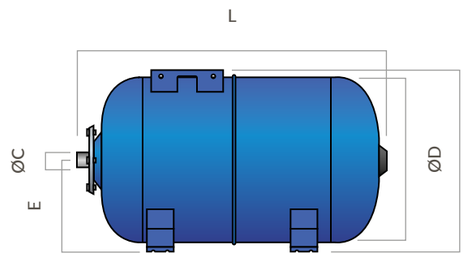
Material description

Description	Material
Shell	Carbon Steel
Membrane	Butyl*
Flange	Painted flange
Colour	Blue

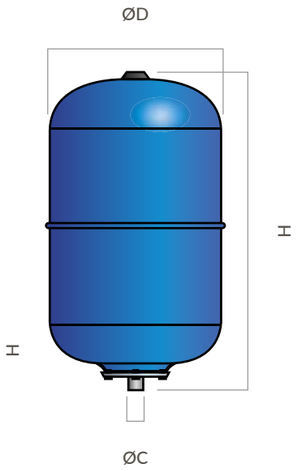
Operating conditions

Maximum working pressure	16 bar
Maximum operating temperature	99°C
Factory pre-charge	2 bar

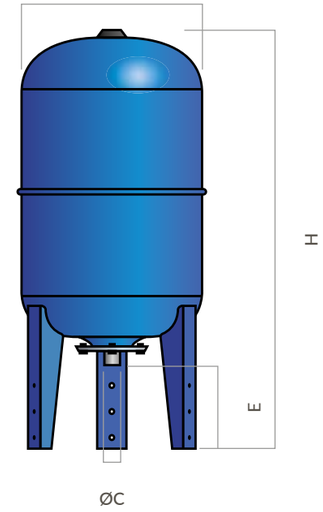
Technical drawings



24 Litres horizontal



24 Litres wall-mounted



100 - 500 Litres

EXPANSION VESSELS FOR SOLAR SYSTEMS

A complete range of expansion vessels suitable for solar systems.

24. SOLARPLUS

SOLARPLUS

Expansion vessel for solar systems

Capacity: from 12 -500 litres

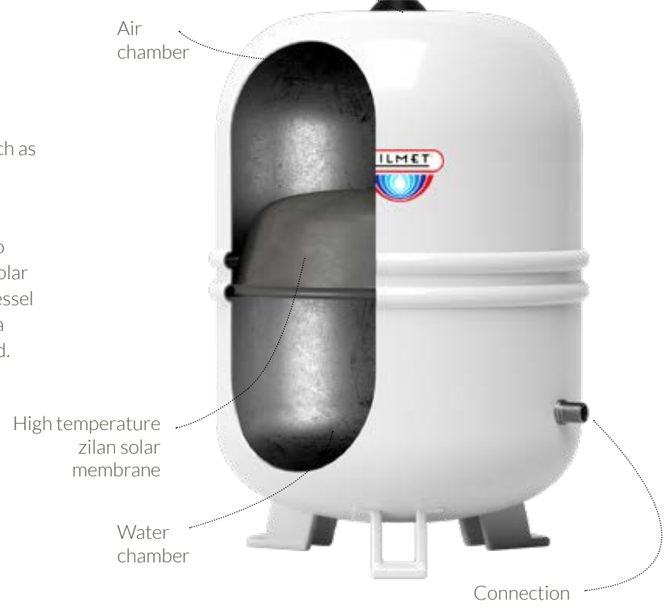
Application

The SOLAR PLUS expansion vessel is designed and engineered to be used on high temperature systems such as solar and solid fuel applications.

Technical features

Membrane expansion vessel manufactured according to PED 97/23/EC and EN 13831 standards, suitable for solar systems, according to DIN 4757 and EN 12977. The vessel is equipped with a special solar membrane designed as a diaphragm, which separates the gas from the solar liquid.

Certification



Technical and dimensional data

Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Connection
SOLAR-PLUS 12	11A2001210	12	270mm	264mm	-	3/4˝G
SOLAR-PLUS 18	11A2001811	18	270mm	350mm	-	3/4˝G
SOLAR-PLUS 25	11A2002506	25	300mm	392mm	-	3/4˝G
SOLAR-PLUS 35 W.F.*	11A2003304	35	380mm	367mm	125mm	3/4˝G
SOLAR-PLUS 50 W.F.*	11A2005002	50	380mm	505mm	155mm	3/4˝G
SOLAR-PLUS 80	11A2008001	80	450mm	608mm	150mm	1˝G
SOLAR-PLUS 105	11A2010503	105	500mm	665mm	165mm	1˝G
SOLAR-PLUS 150	11A2015000	150	500mm	897mm	216mm	1˝G
SOLAR-PLUS 200	11A2020000	200	600mm	812mm	225mm	1˝G
SOLAR-PLUS 250	11A2025000	250	630mm	957mm	245mm	1˝G
SOLAR-PLUS 400	11A2040000	400	630mm	1450mm	245mm	1˝G
SOLAR-PLUS 500	11A2050000	500	750mm	1340mm	290mm	1˝G

* With feet

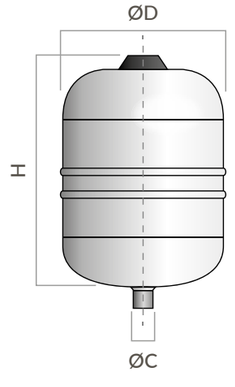
Material description

Description	Material
Shell	Carbon Steel
Connections	Carbon Steel
Membrane	ZILAN solar membrane
Colour	White

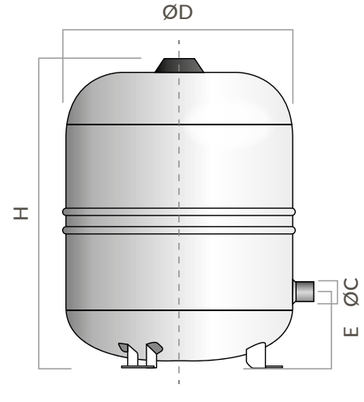
Operating conditions

Maximum operating pressure	10 bar
System operating temperature	-10°C - 110°C
Factory pre-charge	2.5 bar

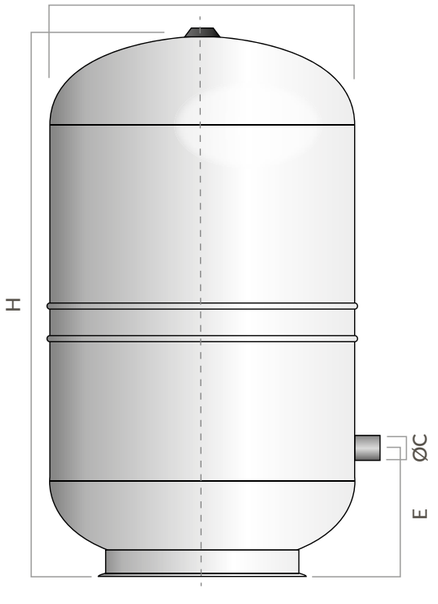
Technical drawings



12 - 25 Litres



35 - 50 Litres



80 - 500 Litres

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OEM-PRO

Expansion vessels for OEM specifications

Capacity: from 6 - 24 litres

Application

The OEM-PRO range of expansion vessels comprises a multitude of sizes, shapes and connections to satisfy boiler manufacturers' specific requirements.

Technical features

Crimped or welded carbon steel shells. Synthetic SBR rubber according to DIN 4807-3 norms is suitable for every capacity for maximising vessel drawdown. Vessels are painted externally with long-lasting epoxy-polyester powder coating and are 100% factory-tested prior to dispatch.

Working

In a closed heating system, water cannot be compressed and any increase in water volume due to an increase in its temperature is absorbed by the expansion vessel.

When water is cold, the pre-charge pressure of the vessel presses the diaphragm against the vessel. As temperature increases, the expanded water volume pushes against the membrane and water enters the vessel, providing additional space to the system. With the temperature decrease, the air cushion forces water back into the system. This permits the system to maintain the pressure, helping to reduce the energy consumption of the heating system.

Certification

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531/L

Technical and dimensional data

Code	Capacity (Ltr)	Ø Diameter	Height	Max pressure	Pre-charge	Connection
13B6000817	8	387mm	100mm	3 bar	1 bar	3/4˝G
13B6001208	12	387mm	138mm	3 bar	1 bar	3/4˝G
13B6001216	12	387mm	138mm	3 bar	1 bar	3/4˝G
13B6001411	14	387mm	150mm	3 bar	1 bar	3/4˝G
13B0001800	18	387mm	200mm	3 bar	1 bar	3/4˝G

Operating conditions

Maximum working pressure	3 bar
Maximum operating temperature	90°C
Factory pre-charge	1±20% bar
Colour	Red / Silver

541/L

Technical and dimensional data

Code	Capacity (Ltr)	Ø Diameter	Height	Max pressure	Pre-charge	Connection
13A6001011	10	324mm	144mm	3 bar	1 bar	3/4˝G
13A6001206	12	324mm	166mm	3 bar	1 bar	3/4˝G

Operating conditions

Maximum working pressure	3 bar
Maximum operating temperature	90°C
Factory pre-charge	1±20% bar
Colour	Red

537/L

Technical and dimensional data

Code	Capacity (Ltr)	Dimensions	Height	Max pressure	Pre-charge	Connection
13N0000810	8	561 x 203mm	75mm	3 bar	1 bar	3/8˝G
13N6000825	8	490 x 200mm	75mm	3 bar	1 bar	3/8˝G

Operating conditions

Maximum working pressure	3 bar
Maximum operating temperature	90°C
Factory pre-charge	1±20% bar
Colour	Red

P367/L

Technical and dimensional data

Code	Capacity (Ltr)	Dimensions	Height	Max pressure	Pre-charge	Connection
13Q2001602	16	408 x 350	158mm	3 bar	1 bar	3/4˝G
13Q2001817	18	445 x 350	158mm	3.5 bar	1 bar	3/4˝G
13Q2002405	24	408 x 350	178mm	3.5 bar	1 bar	3/4˝G
13Q2002417	24	445 x 350	178mm	3.5 bar	1 bar	3/4˝G

Operating conditions

Maximum working pressure	3 bar
Maximum operating temperature	90°C
Factory pre-charge	1±20% bar
Colour	Red

539/L

Technical and dimensional data

Code	Capacity (Ltr)	Dimensions	Height	Max pressure	Pre-charge	Connection
13S0000804	8	250 x 438	95mm	3 bar	1 bar	3/8˝G
13S6000805	8	250 x 438	95mm	3 bar	1 bar	M14
13S6000820	8	250 x 438	95mm	3 bar	1 bar	3/8˝G
13S6000823	8	250 x 438	94mm	3 bar	0.75 bar	3/8˝G
13S6001010	10	250 x 438	49mm	3 bar	0.75 bar	M14
13S6001031	10	250 x 438	49mm	3 bar	0.75 bar	3/8˝G

Operating conditions

Maximum working pressure	3 bar
Maximum operating temperature	90°C
Factory pre-charge	1±20% bar
Colour	Red

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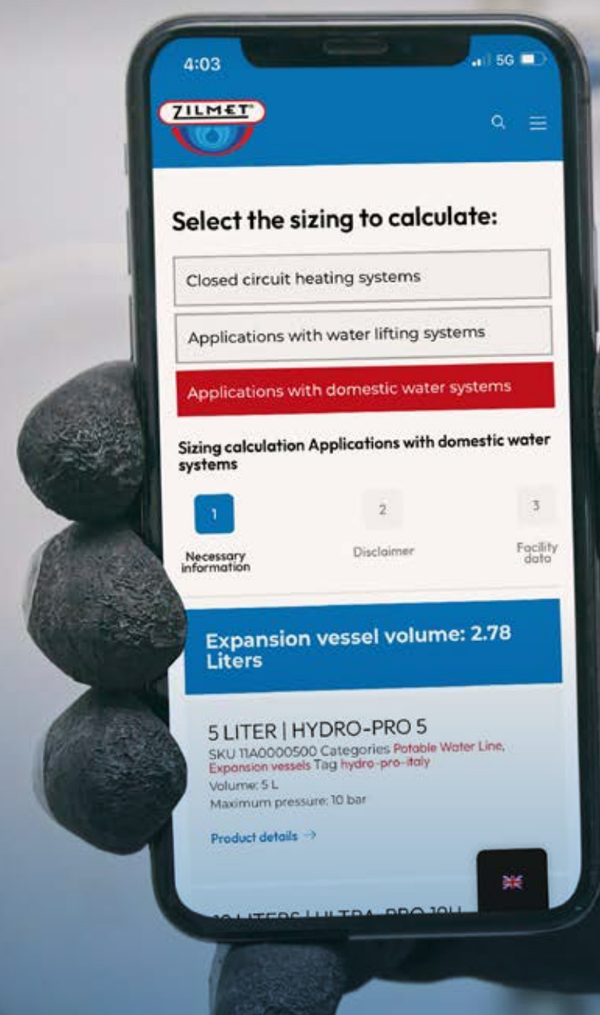
ZILMET®

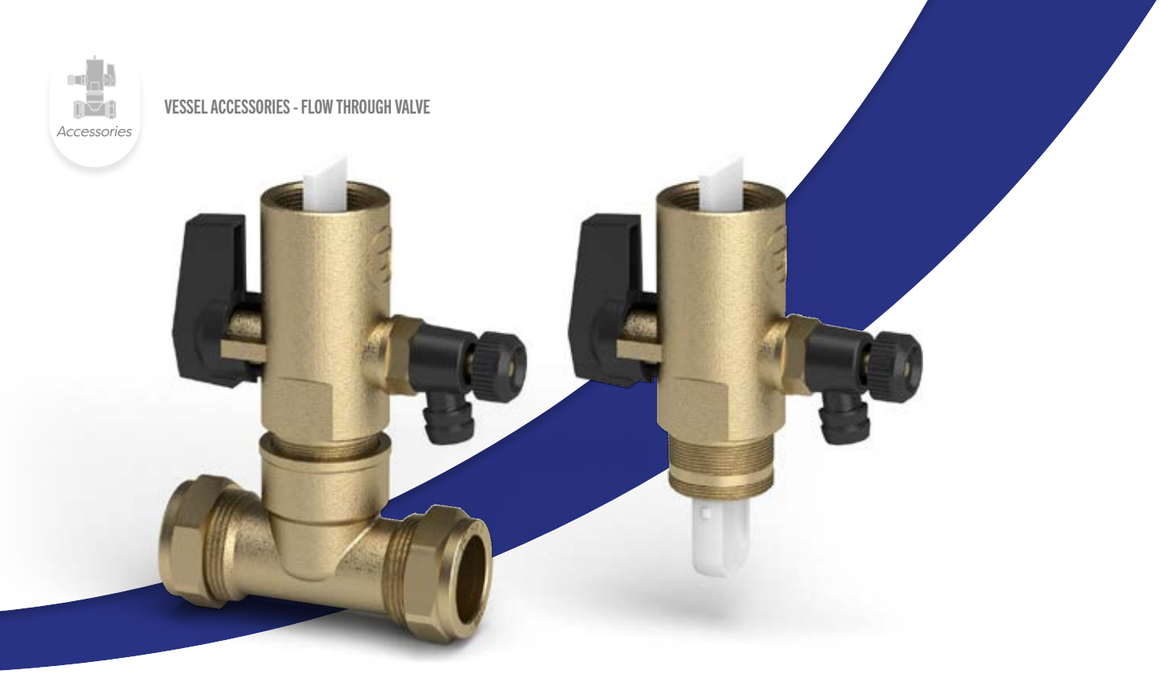
Get the right size. Every time.



Not sure what size vessel you need?

Our handy vessel sizing calculator has got you covered.
Scan here or go to:

www.zilmet.it/en/sizing-of-expansion-vessels/



FLOW THROUGH VALVE

Specifically designed and engineered to disrupt the flow of water and amplify turbulence within expansion vessels installed onto heating and potable water systems.

Application

Fluid systems in both commercial and domestic applications are particularly vulnerable to Legionella formation, especially in areas with stagnant water, elevated temperatures, or inadequate disinfection. Installing the Zilmet flow through valve helps maintain continuous water movement within the vessel, significantly reducing the risk of bacterial growth and enhancing overall system hygiene and safety.

Technical Features

- Helps to reduce the risk of stagnated water within expansion vessels.
- Equipped with an integrated drain valve for the effective draining of the expansion vessel contents during maintenance intervals.
- Anti-tamper control handle to prevent unauthorised operation.
- Isolation valve to enable the removal of the vessel for replacement or servicing.
- Universal compatibility for expansion vessels with 3/4" BSP connection.
- The ideal solution to help comply with HSG274 (Part 2) guidelines.

Certification

WRAS APPROVED PRODUCT

Operating conditions

Maximum operating pressure	16 bar
Maximum operating temperature	85°C

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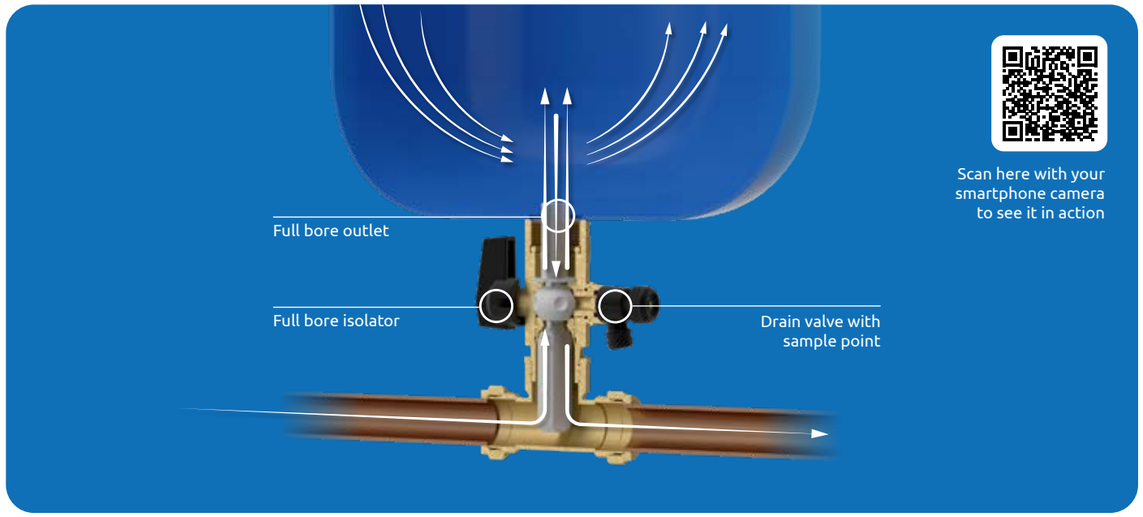
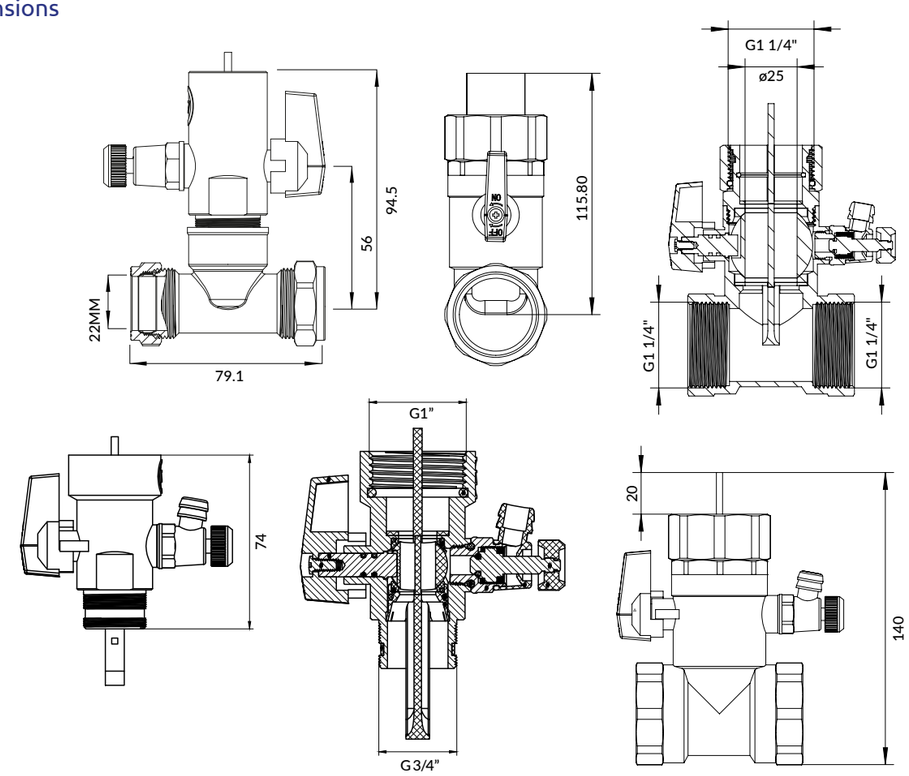
Operating Principle



Technical and dimensional data

Model	Description
FTV34	3/4" flow through valve
FTV22	22mm flow through valve
FTV0134	1" x 3/4" flow through valve
FTV010	1" flow through valve
FTV0114	1 1/4" flow through valve
FTV0112	1 1/2" flow through valve

Dimensions



VESSEL ACCESSORIES

Spare membranes

Model	Description
260100020	Replaceable membrane for 24L ULTRA-PRO/INOX-PRO
1800002403	Replaceable membrane for 12L, 19L, 24L ULTRA-PRO membrane EPDM
260100021	Replaceable membrane for 50L ULTRA-PRO membrane butyl
260100001	Replaceable membrane for 60L/80L ULTRA-PRO/INOX-PRO membrane butyl
260100002	Replaceable membrane for 100L ULTRA-PRO membrane butyl
260100013	Replaceable membrane for 100L INOX-PRO membrane butyl
260100003	Replaceable membrane for 200L ULTRA-PRO membrane butyl
260100004	Replaceable membrane for 300L ULTRA-PRO membrane butyl
260100005	Replaceable membrane for 500L ULTRA-PRO membrane butyl
260100006	Replaceable membrane for 750L/1000L ULTRA-PRO membrane butyl

Safe Group expansion vessel mounting bracket

Model	Description
ZISG002	Safe Group expansion vessel mounting bracket
ZISG003	Safe Group expansion vessel mounting bracket and quick release valves
ZISG00XXX	Bracket only
260100006	750 - 1000

Model	Description
19905004	22mm nut & olive kit

Model	Description
ZKITA075	Sealed system kit
ZKITA075.1	Sealed system kit with bracket

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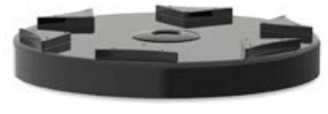
Model	Description
WVMB	Welded vessel mounting bracket with ring suitable for 2L to 24L vessels

Model	Description
HVMB	Wall-mounting bracket suitable for 4L to 24L vessels

Model	Description
276000019	Cap for buffer vessel 25L
276000020	Cap for buffer vessel 50L



Model	Description
1910050015	Buffer vessel feet

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ZI De Bournat 63190 Orléat
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To view our full range of expansion vessels, and in-depth technical data sheets please visit our new dedicated UK website:

www.zilmet.co.uk

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