



Accumulator Tank type EXPAT075

1 Functioning

Inside the accumulator there is a membrane. When the pump starts, water is pumped into the reservoir underneath the membrane. The air that is located above the membrane in the accumulator's air chamber is compressed to the pressure at which the pump pressostat is set. This compressed air acts as a buffer. When opening a tap, the pressure in the air chamber ensures that water is immediately delivered. When a tap is closed suddenly, there will be no shock waves in the pipeline (water hammer). The accumulator provides a constant flow of water from the tap.

2 Installation

Fitting

The accumulator tank should be fitted in the discharge line from the pump, as close as possible to the pump itself. Install the accumulator before any filters or non-return valves.

Place the accumulator in a frost-free space, but away from a heat source. For the pipeline, see fig. 1

Install

Make sure the pump is switched off and open a tap to release the pressure of the water line.

The accumulator may be installed in any position. However, in connection with the winter preparation it is recommended to install the accumulator upright with the pipe connections at the bottom.

Connecting

Both connections are equivalent, there is no preferred IN or OUT.

- Install the hose connectors to the accumulator, see fig. 2.



WARNING

Never use Teflon tape or sealing compound on the thread.



NOTE

The hose connectors provided are designed with a 'taper seal', creating a water tight seal when hand tightened.

- Connect the accumulator with at least 30 cm (1 ft) of a good quality reinforced flexible hose (12.7 mm, 1/2"). Avoid sharp bends and kinks or sagging in the hose.

The reinforced hose must be of foodstuffs quality and resistant to at least 50°C and a pressure of 5 bar (5 kgf / cm²).

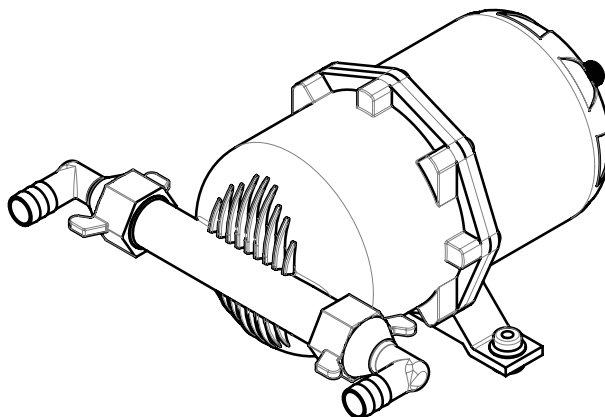
Vetus supplies a hose which is suitable for tap water. This hose is tasteless, non-toxic, resistant to temperatures from -5°C to + 65°C. Art.code: DWHOSE12A, drinking water hose, 12.7 mm (1/2") internal diameter.

- Fit every hose connection with a good stainless steel hose clamp.



WARNING

Never connect the pump directly to rigid tubing.



NOTE

If the system is installed using copper tubing, the accumulator must still be connected using short sections of hose.

Pre-charge pressure of the membrane



NOTE

Before use of the system, the pre-pressure of the membrane must be set.

The accumulator comes with a pre-charge pressure of 0.7 bar. The optimum setting is 0.2 bar lower than the pump cut-in pressure. For example, if the pump cut-in pressure is 1.9 bar, the pre-charge pressure must be 1.7 bar.

- Make sure the pump is turned off and open a tap to release the pressure of the system.
- Check the pressure with a tire pressure gauge.

Connect an air pump to the car valve to increase the pressure. Press the valve pin to reduce the pressure.



WARNING

Never use the accumulator for flammable liquids, gasoline, diesel oil, etc.
Never exceed the maximum pre-charge pressure of 8.5 bar.

3 Winter preparation

The whole drinking water system, including the pressurized water system, should always be drained. Never fill the drinking water system with anti-freeze, it is very poisonous!



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4 Trouble shooting

Pressurised water pump cuts in & out rapidly when outlet is partially open.

- Pressure in accumulator tank incorrect > Check tank pressure and adjust.
- Accumulator tank membrane split > Replace tank.

Schröder valve leaks.

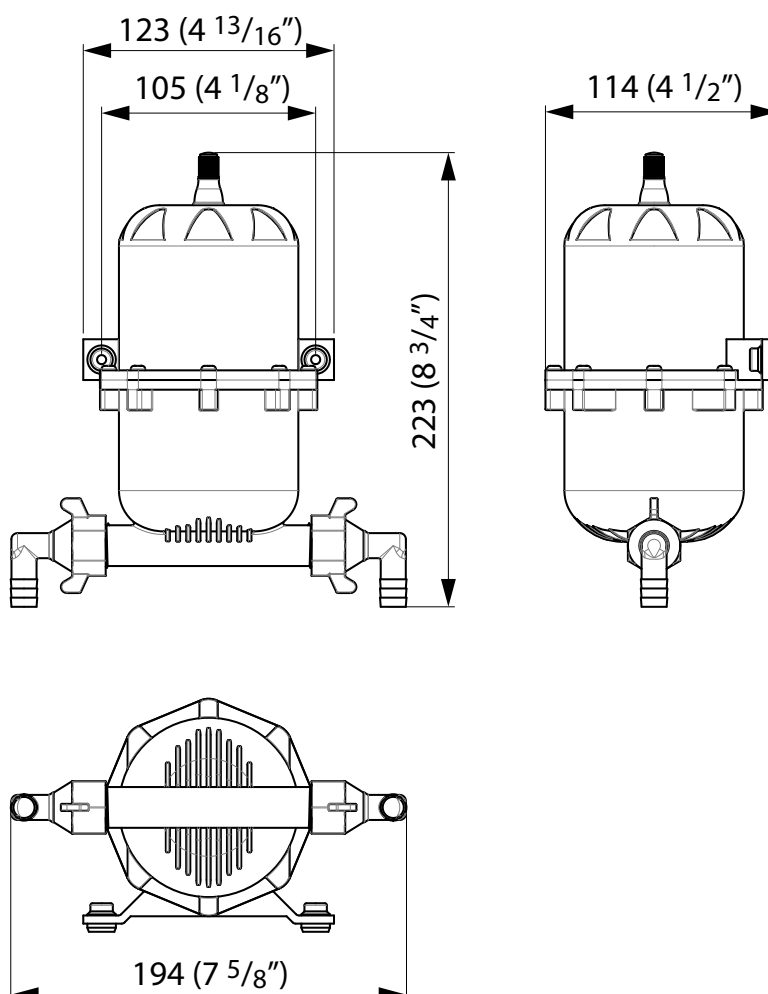
- Expansion tank membrane split > Replace tank.

Note: Spare parts are not available. A defective accumulator must be replaced in its entirety.

Technical data

Volume	: 0.75 litre (25 fl.oz.)
Max. operating pressure	: 8.5 bar (125 psi)
Pre-charge pressure	: 0.7 bar (10 psi)
Temperature range	: 0 to 50 degrees C. (32 to 122 degrees F.)
Material, housing	: PA+30%GF
Material, membrane	: IIR60, butyl rubber
Connections	: 1/2" NPT Male
Hose pillars	: 1/2" NPT - 1/2" (13 mm) hose
Weight	: 0.36 kg (13 oz.)

5 Principal dimensions



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Fig. 1 : Piping diagram

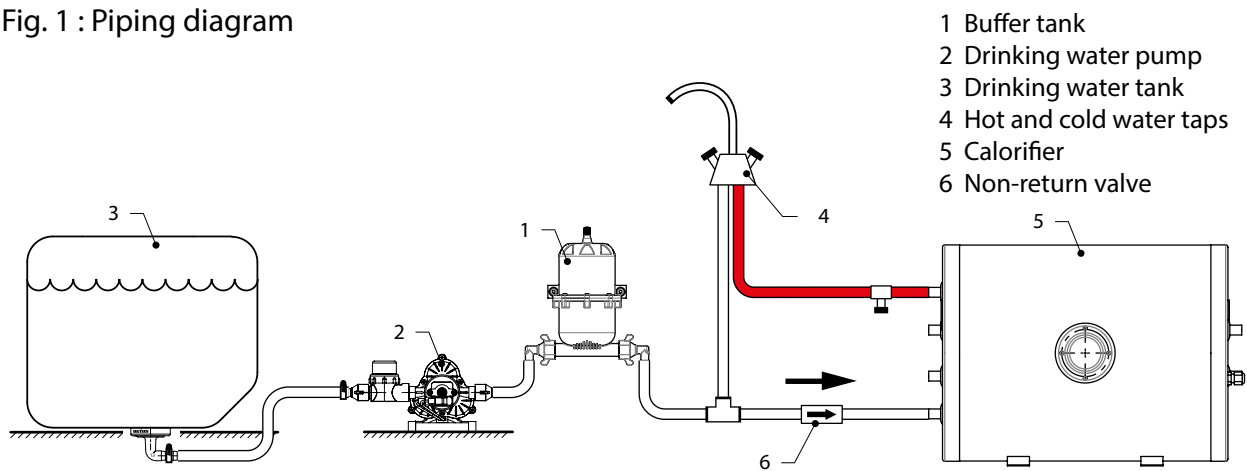
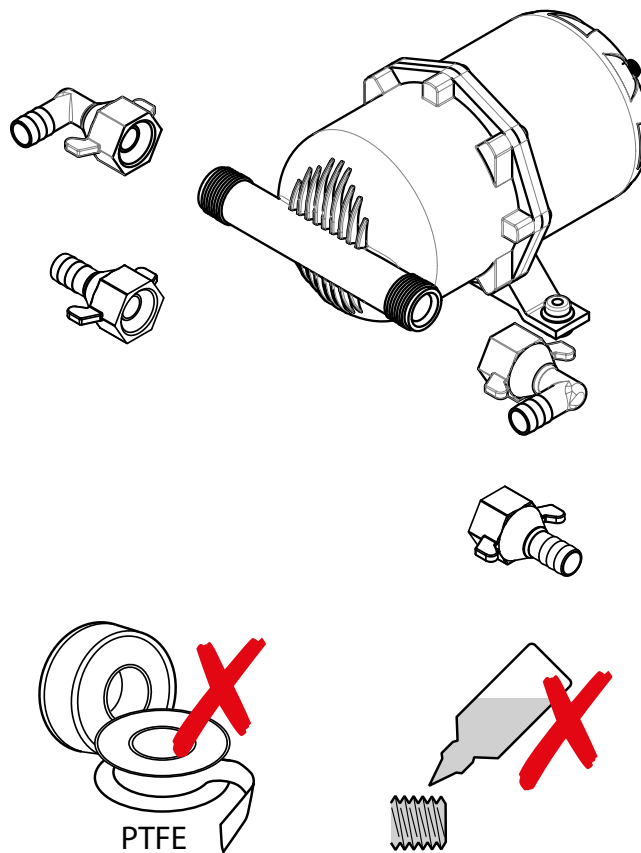


Fig. 2 : Hose connectors



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