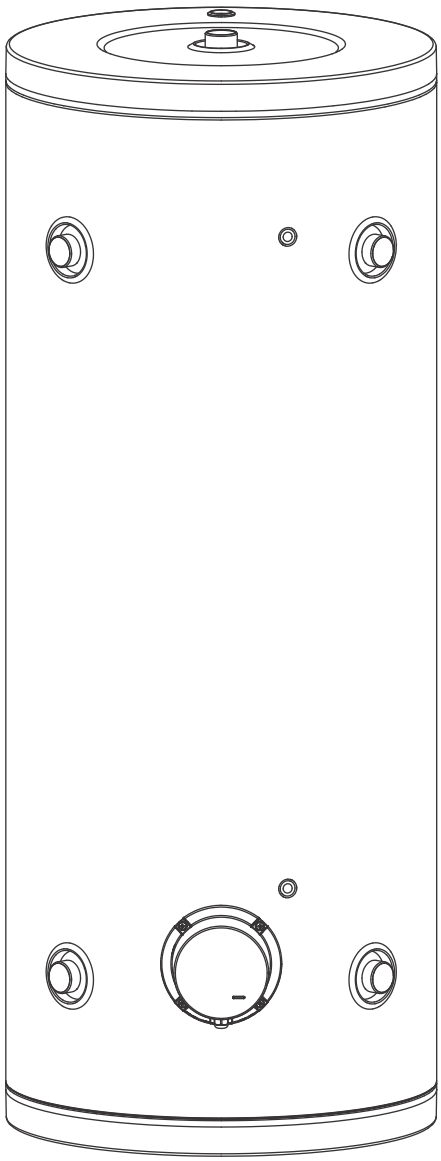
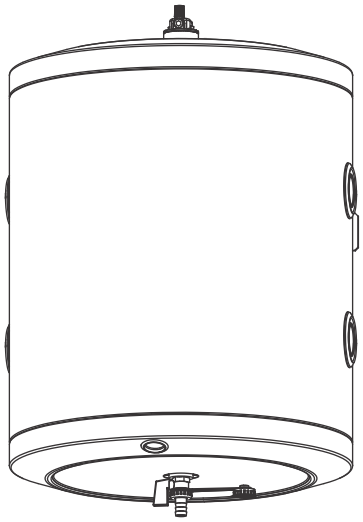
ZV 50 - 300

INSTRUCTIONS FOR USE

EN





WARNINGS

- ⚠ **This device can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the device in a safe way and understand the hazards involved.**
- ⚠ **Children should not play with the device.**
- ⚠ **Cleaning and user maintenance shall not be performed by children without supervision.**
- ⚠ **Installation should be carried out in accordance with the valid regulations and according to the instructions of the manufacturer and by qualified staff.**
- ⚠ **In a closed-circuit, pressurised system, it is obligatory to install a safety valve with a maximum nominal pressure indicated in the technical data, preventing the pressure in the tank from exceeding the nominal pressure by more than 0.1 MPa (1 bar).**
- ⚠ **The outlet of the safety valve should be installed facing downwards and in a non-freezing area.**
- ⚠ **To ensure proper functioning of the safety valve, the user should perform regular controls to remove limescale and make sure the safety valve is not blocked.**
- ⚠ **Do not install a stop valve between the buffer tank and the safety valve, because it will impair the pressure protection of the buffer tank!**
- ⚠ **A buffer tank that is connected to the heating system increases the volume, which has a significant impact on the size of the expansion tank, which is obligatory and the volume of which must be properly calculated by a professional.**
- ⚠ **If the system has to be switched off, please drain any water from the buffer tank to prevent freezing.**
- ⚠ **If you are planning to build in an electric heating package, the safety of operation is guaranteed only if an original heating package is installed.**
- ⚠ **Please do not try to fix any defects of the buffer tank on your own. Call the nearest authorised service provider.**

Our products incorporate components that are both environmentally safe and harmless to health, so they can be disassembled as easily as possible and recycled once they reach their final life stage.
Recycling of materials reduces the quantity of waste and the need for production of raw materials (e.g. metals) which requires a substantial amount of energy and causes release of harmful substances. Recycling procedures reduce the consumption of natural resources, as the waste parts made of plastic and metal can be returned to various production processes.
For more information on waste disposal, please visit your waste collection centre or the store where the product was purchased.

Dear customer, thank you for purchasing our product.

PRIOR TO THE INSTALLATION AND USING THE BUFFER TANK FOR THE FIRST TIME, PLEASE READ THESE INSTRUCTIONS CAREFULLY.

This buffer tank has been manufactured in compliance with the relevant standards and tested by the relevant authorities. Its basic technical characteristics are indicated on the label located on the protective cover.
The buffer tank must be installed and connected by a qualified professional. Interventions within the tank may only be done by an authorised service provider.
The buffer tank was specially developed for the storage of hot or cold water for heating within the limit temperatures and pressure, in accordance with the data indicated in the “Technical Properties” chapter. Using the appliance in any other way would be inappropriate and dangerous. **NOT SUITABLE FOR POTABLE WATER.**

STORAGE AND TRANSPORT

The buffer tank must be stored in a dry and clean space. Exposure to the elements may damage the appliance.

TECHNICAL CHARACTERISTICS OF THE APPLIANCE

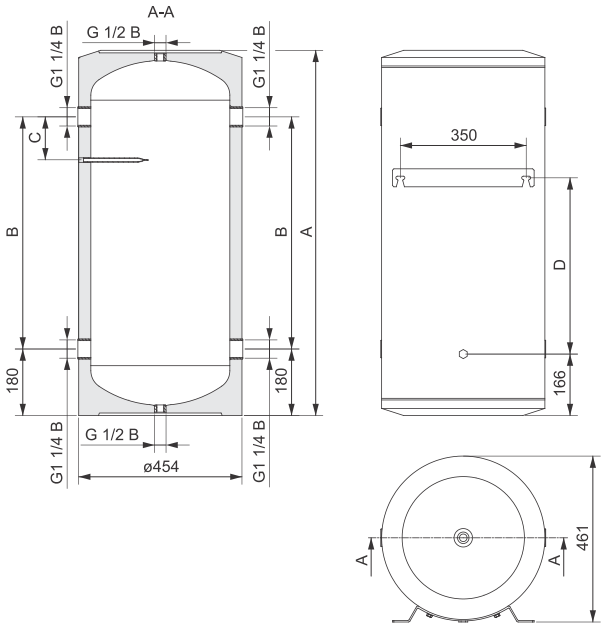
Type		ZV50	ZV100	ZV200	ZV300
Energy efficiency class [1]		C	C	C	C
Standing loss S [2]	W	46,0	67,0	71,0	89,0
Volume for storage	l	50,9	102,0	200,0	285,0
Connection dimensions					
Height	mm	570	1010	1460	1500
Diameter	mm	454	454	570	670
Heating water inlet		G1 1/4	G1 1/4	G1 1/4	G1 1/4
Heating water outlet		G1 1/4	G1 1/4	G1 1/4	G1 1/4
Net/gross/weight with water	kg	16,5/18,5/66,5	29/31/131	55/67/255	71/84/356
Technical properties					
Maximum allowable operating	MPa (bar)	1,0 (10)		0,6 (6)	
Maximum water temperature	°C	95			
Non-enamelled sheet metal		+	+	+	+
Average insulation thickness	mm	33	33	59	67
Accessories					
Deaerator with valve G 1/2		+	+	-	-
Inlet ball valve G 1/2		+	+	-	-
Plug G1 1/4-Zn		+	+	-	-
Transport data					
Packaging dimensions	mm	480x490x650	480x490x1100	680x760x1670	760x760x1710

1) Commission Regulation EU 812/2013
2) Tested according to EN 12897:2006 or EN 60379:2005

DIMENSIONS

WALL-MOUNTED VERSION

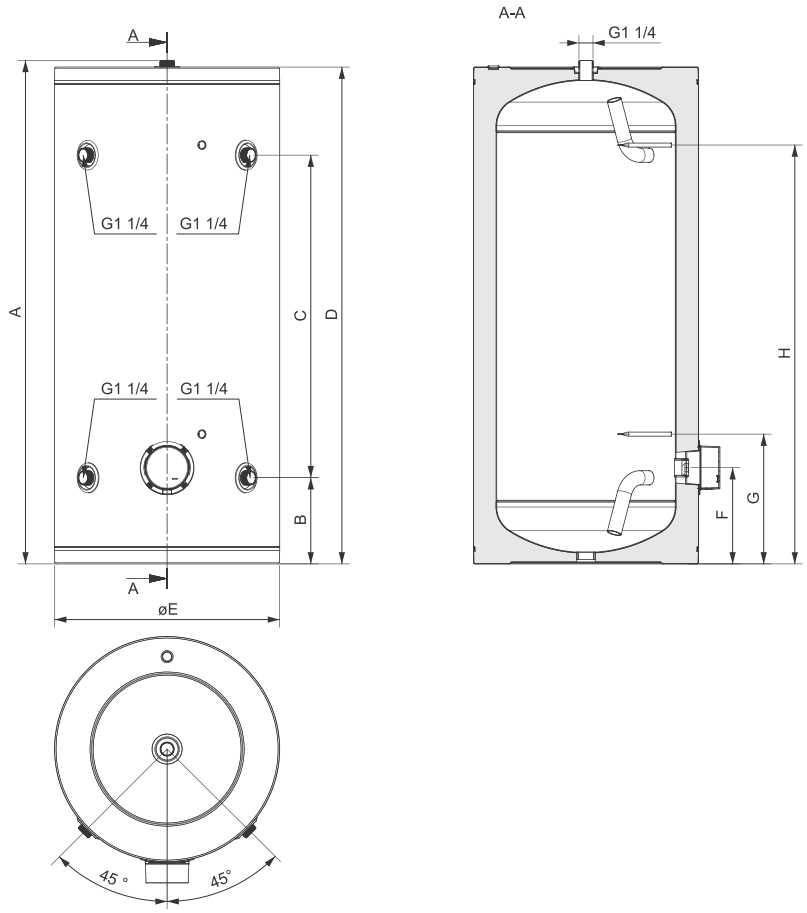
	A	B	C	D
ZV50	560	200	/	200
ZV100	1005	645	125	495



Connection and installation dimensions of the wall-mounted version of the buffer tank (mm)

FLOOR-STANDING VERSION

	A	B	C	D	E	F	G	H
ZV200	1460	228	975	1444	570	258	358	1233
ZV300	1498	256	960	1478	670	286	386	1246

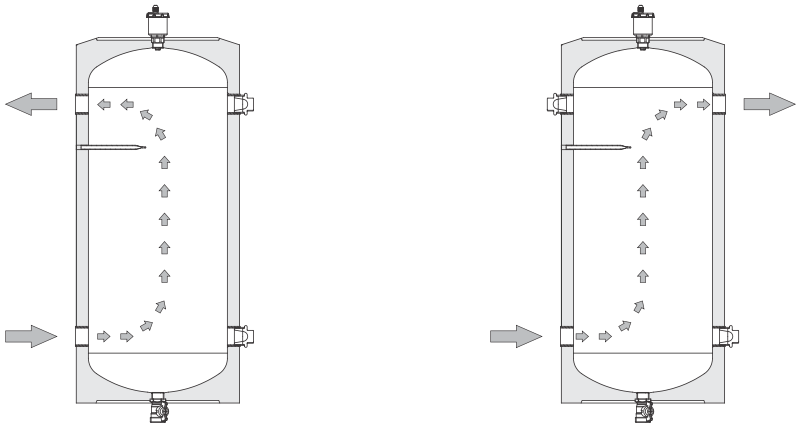


Connection and installation dimensions of the floor-standing version of the buffer tank (mm)

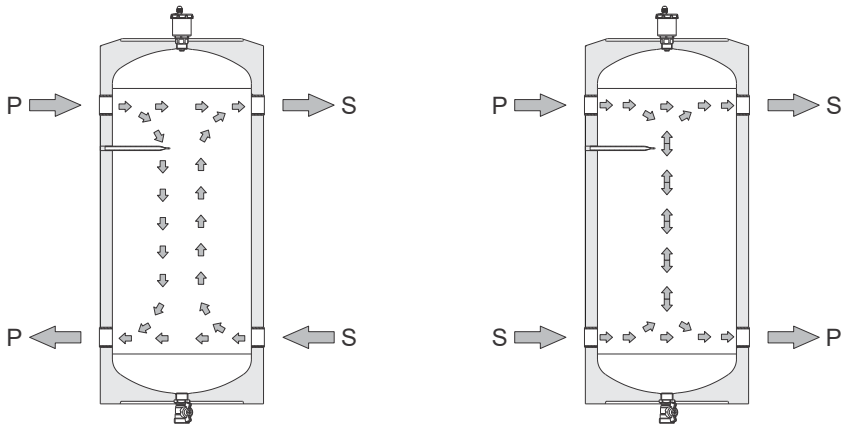
INSTALLATION

Place the buffer tank in a dry space free from freezing conditions. If possible, it should be placed near other heating sources. The appliance must be installed by a properly qualified person in accordance with the instructions and local regulations.
The buffer tank may be used in heating and cooling systems. The primary purpose of the buffer tank is storage of superfluous energy, but it can also be used as a hydraulic switch in heating or cooling systems.
The buffer tank was designed, manufactured and tested for the storage of hot or cold water within the scope of the limit temperatures and pressure, indicated in the chapter “Technical Characteristics of the Appliance”. Using the appliance in any other way would be inappropriate and dangerous.
Make sure to leave enough space around the buffer tank for undisturbed regular and irregular maintenance interventions (access to sensors and connections, cleaning, deaeration etc.).
It is recommended to install a magnetic and mechanical debris filter in order to ensure long-lasting functioning of the system.

SERIES CONNECTION



PARALLEL CONNECTION



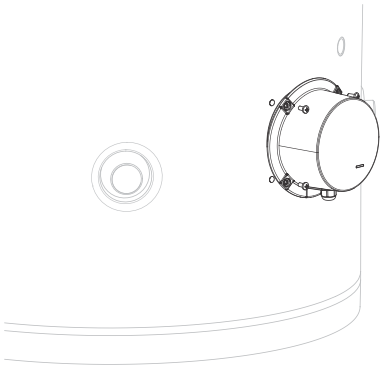
P...Primary circuit
S...Secondary circuit

FILLING AND STARTING UP YOUR BUFFER TANK FOR THE FIRST TIME

The first filling and start-up must be performed by a properly qualified person. Before filling the buffer tank with water, the pipes and the tank must be rinsed to remove any debris and impurities. Upon start-up, pressure test must be performed and the sealing of joints must be checked. If the tank will be used in a cooling system, make sure the water temperature is always above freezing point. To prevent corrosion in the system, it is recommended to treat the water properly.

CONNECTING THE ELECTRIC HEATING PACKAGE (FOR FLOOR-STANDING VERSION ONLY)

The buffer tank may be upgraded with an original electric heating package (heating element, thermostat with a fuse, signal light) to the designated connection G1 1/2.
The heating package must be installed by a properly qualified person. Installation details are described in the instructions enclosed with the heating package.



MAINTENANCE

The exterior of the buffer tank should be cleaned with a soft cloth and mild liquid detergents. Do not use detergents that contain abrasives. Regular maintenance interventions include the inspection of the expansion vessel, safety valves and other valves, although they are not part of the appliance.