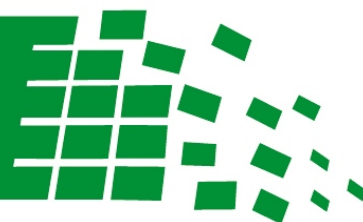


ELEKTROMET[®]



inteligentna technologia

THE VVS-BW 40 BUFFER TANK for operation with external heat sources



INSTALLATION AND OPERATING MANUAL GUARANTEE TERMS

ELEKTROMET[®]

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Prior installation and commissioning of the tank, please read carefully the following Installation and Operating Manual as well as the Guarantee Terms.

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The manufacturer reserves the right to any construction changes as part of the tank modernization without the need to include them in this manual.

1. Construction and intended use

The BW buffer tanks are designed for collecting, storing and transferring excess **heating water** or other liquids admitted to contact with steel obtained from various heat sources: central heating boilers, solar collectors, heat pumps, etc. Buffer tanks are the protection of the installation which take the difference between the thermal power of a boiler and the power given to the heating system.

Buffer tanks are made of black steel sheet. Thermal insulation of buffers forms a layer of polystyrene foam. The thermal insulation shell is made of a thin steel sheet covered with powder paint and a lower and upper cover made of ABS plastic.

Buffers are pressure devices adapted to work in a vertical position with a maximum water pressure of 0.3 MPa (3 bar).

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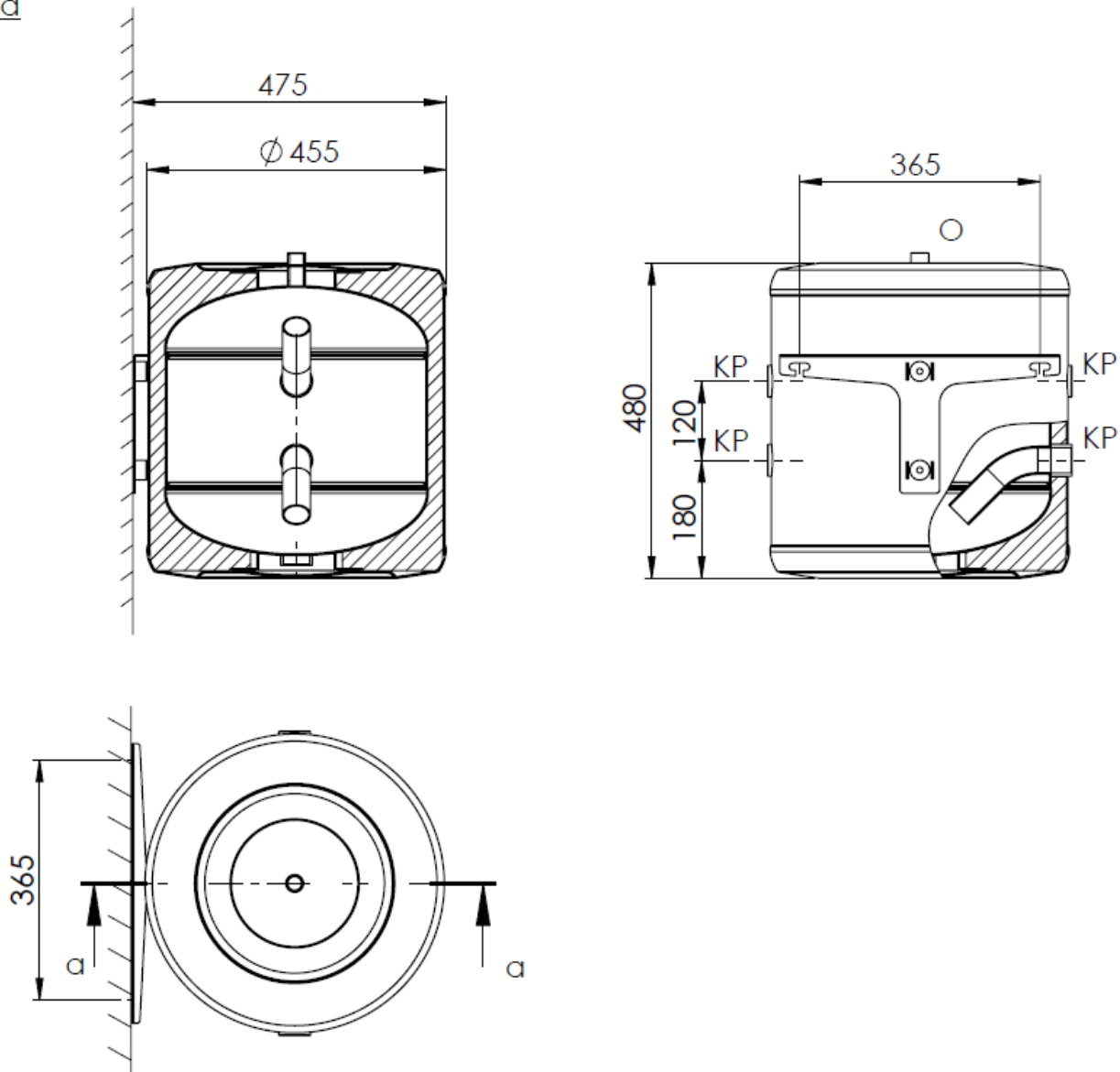


Fig.1 Construction of a buffer tank

Table. Tank parameters

	unit	VVS-BW 40
Capacity	dm ³	40
Connection thread		G _{wewn} 1 1/4"
Type of tank		steel - inside raw, covered with anti-corrosion paint
Thermal isolation		polyurethane foam
Thickness of thermal insulation	mm	25
Outer cover		powder coated sheet metal sheath
Parameters of the tank operation: Maximum working pressure Maximum working temperature		p _r = 0,3 MPa t _r = 80 °C
Weight	kg	approx. 25

2. Security and conditions for safe use

Tanks, especially those working in closed systems, may only be operated with an efficient safety valve with an opening pressure of max. 0.3 MPa, preferably installed on the cold water inflow. This valve protects the device against excessive pressure in the heating circuit.

Even during normal operation, water may leak temporarily from the safety valve, which indicates that the valve works properly. In such cases, it is not allowed to clog the outflow opening in any way.



1. A safety valve must be installed on the cold water inlet. Mount it so that the arrowhead on the valve body is directed in the water flow direction.
2. Do not install any shut-off valves between the safety valve and the tank.
3. Operation of the tank without a safety valve or with a failing safety valve is not permitted because it may cause a malfunction and pose a threat to human life and health.
4. For a safety valve having, among others function enabling lowering the water pressure in the tank through its flow to the supply installation, the installation supplying water at a distance of at least 5 m from the valve should be resistant to a temperature of + 90°C.

3. Operation and use

1. Periodically, at least once a month and before each start-up after being taken out of service, check the correct functioning of the safety valve.
2. Repairs to the water system should only be carried out by specialists with appropriate permissions.

4. Guarantee terms

1. The guarantee is provided for 36 months for the tank.
2. The guarantee period starts from the date of sale of the product to the user recorded on the guarantee sheet and confirmed by a receipt of purchase (invoice) issued by the seller.
3. The guarantor ensures effective operation of the tank provided that it is installed and used according to this operating manual, i.e. mainly on condition of not exceeding the permissible pressure and using treated boiler water.

4. In the guarantee period, the user is entitled to free repairs of the buffer tank damage arising through the fault of the manufacturer. Such damages will be eliminated in 14 days from the date of submission.
5. The guarantee does not cover defects caused by improper use, repairs and alterations by unauthorized persons, as well as installation and operation of the device not in accordance with this manual.
6. In case of malfunctioning of the buffer tank, call manufacturer's service at tel. 77/471 08 17 or the point of purchase. **DO NOT DISASSEMBLE THE DEVICE.**
7. A method of repair of the device is determined by the manufacturer.
8. In cases not regulated by these terms, relevant regulations of the Civil Code shall apply
9. It is recommended to keep the Guarantee Card throughout the whole period of operation of the tank.

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UWAGI:

* Gwarant udziela gwarancji na produkt zakupio zamontowany i użytkowany na terenie kraju (F
* Garantor gives guarantee on products which were bought, mounted and used on the coun area (Poland)

KUPON GWARANCYJNY	KUPON C
Typ wyrobu:	Typ wyrobu:
Nr fabryczny	Nr fabryczny
Data sprzedaży:	Data sprzed
	
pieczęć i podpis sprzedawcy	pieczęć i

