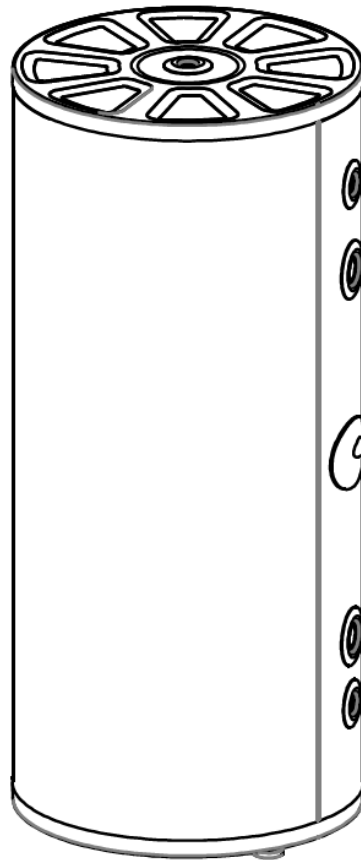

INSTALLATION AND OPERATING INSTRUCTIONS

Tank 2in1



Models:

- ZC-02
- ZC-0 25
- ZCC-025
- ZC-05
- ZCC-05
- ZC-10

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CONDITIONS FOR SAFE AND RELIABLE OPERATION

1. Compliance with this installation and operation manual will enable proper installation and operation of the device, ensuring a long service life and reliable operation.
2. It is not allowed to install the tank not in accordance with the instructions, it threatens with failure, malfunction of the system and causes the loss of warranty.
3. When working with the device, health and safety rules and other regulations in force in a given country should be observed.
4. The device must not be installed in rooms where the ambient temperature may fall below 0°C.
5. Installation and commissioning should be carried out by a specialist service facility.
6. The tank should only be mounted vertically.
7. After setting, the device must be connected to the water supply network and central heating system according to the scheme contained in this manual.
8. The connection to the plumbing system should be made in accordance with PN-76/B-02440.
9. The tank is a pressure device adapted to be connected to the plumbing, the maximum pressure of the tank is 0.6 MPa and the rated pressure of the coil is 0.6 MPa. In case of higher pressure in the plumbing, a pressure reducer should be installed.
10. Dripping water from the drainage pipe from the safety valve is normal and should not be prevented, as a blockage of the valve can cause failure.
11. Do not use the tank if there is a chance that the safety valve is damaged.
12. The maximum temperature of 95°C must not be exceeded in the operation of the collection tank.
13. An additional diaphragm vessel selected according to the previously made calculations should be installed to the tank.
14. An electric heater can be mounted to the tank.

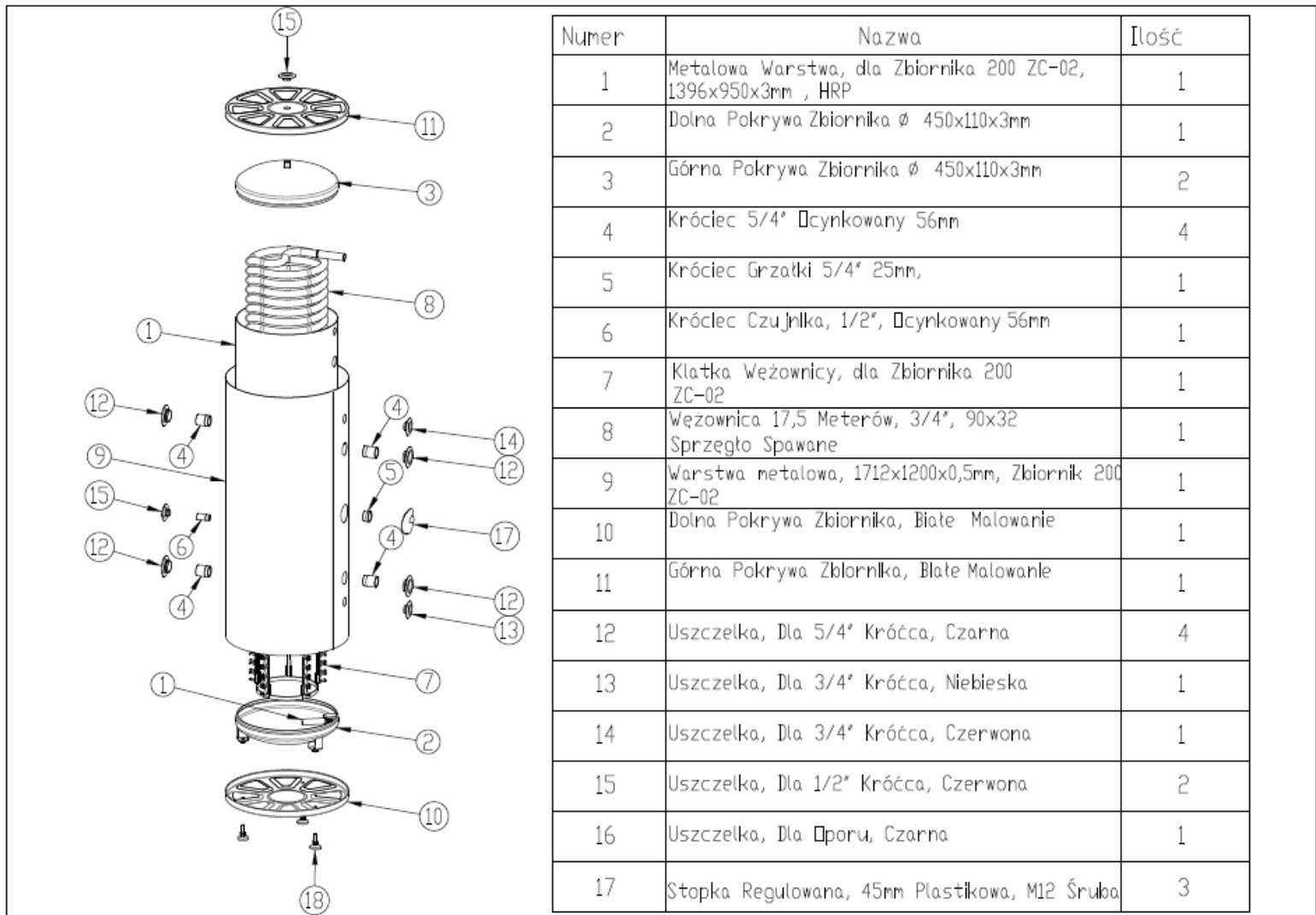
CHARACTERISTICS OF PRESSURE EQUIPMENT

A domestic hot water heating tank is a device designed for storing hot water for use for central heating and domestic hot water by heating water contained in a large surface coil. Due to the use of a flow coil (stainless steel AISI 316L) in the tank, there is no need to use an anode and it is not necessary to periodically heat the tank because there is a constant supply of fresh water.

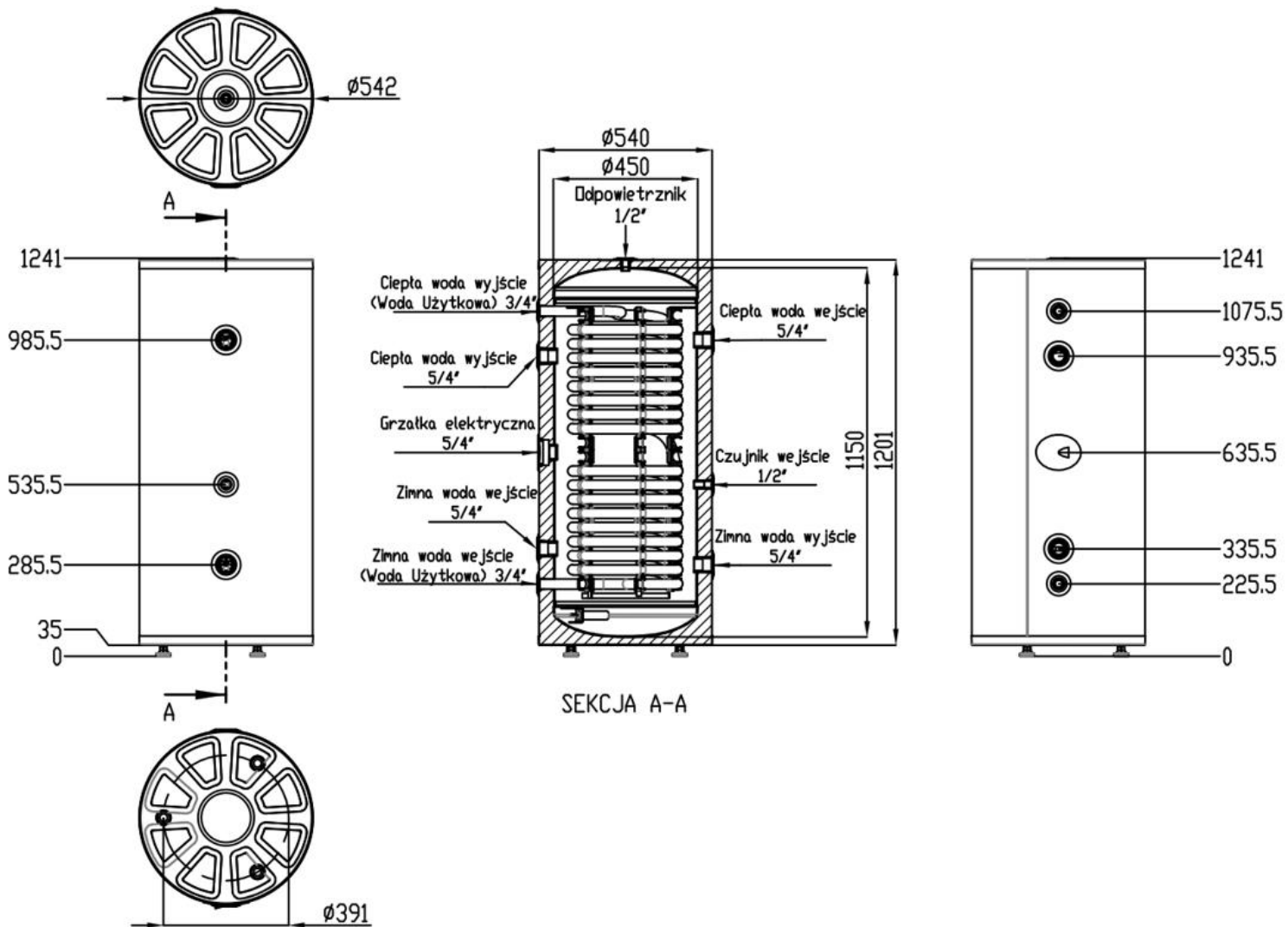
The devices are additionally insulated by the use of thermal insulation in the form of polyurethane foam.

ZC models are equipped with one coil, and ZCC models have two coils, which allows you to connect, for example, a heat pump and a solar installation.

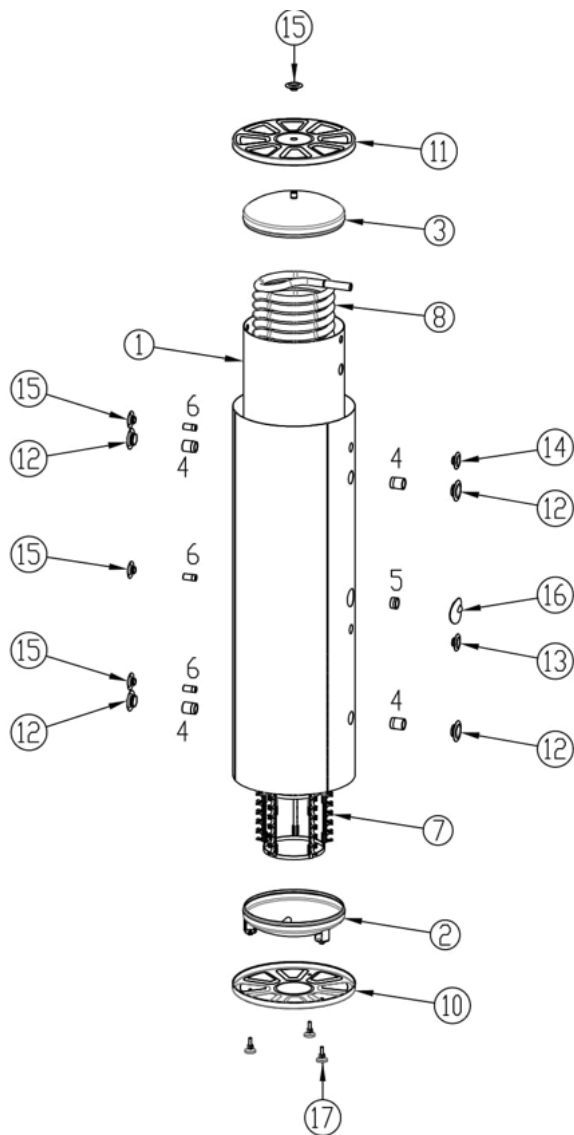
Tank construction 200 ZC-02



Tank dimensions 200 ZC-02

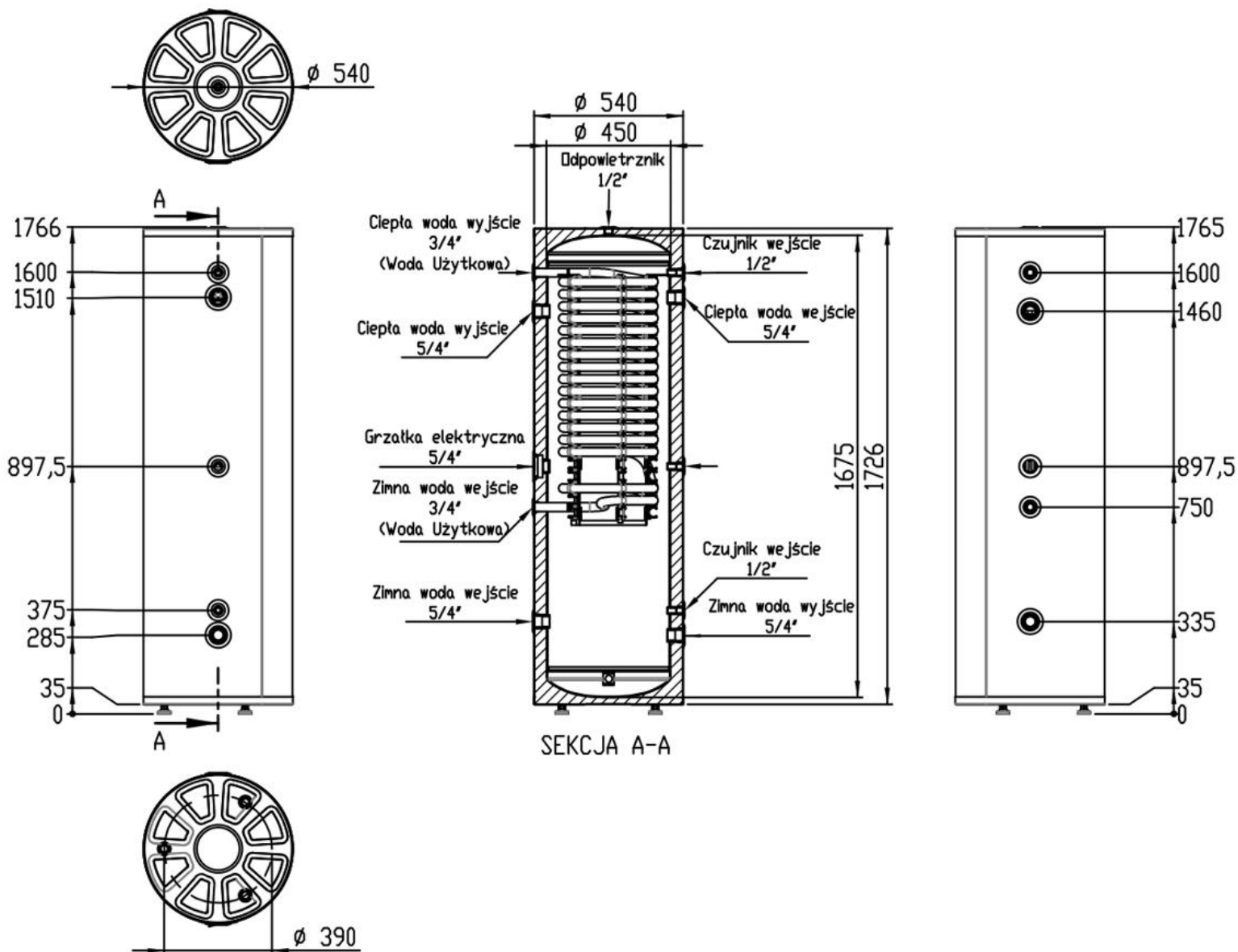


Construction TankA 250 ZC-025

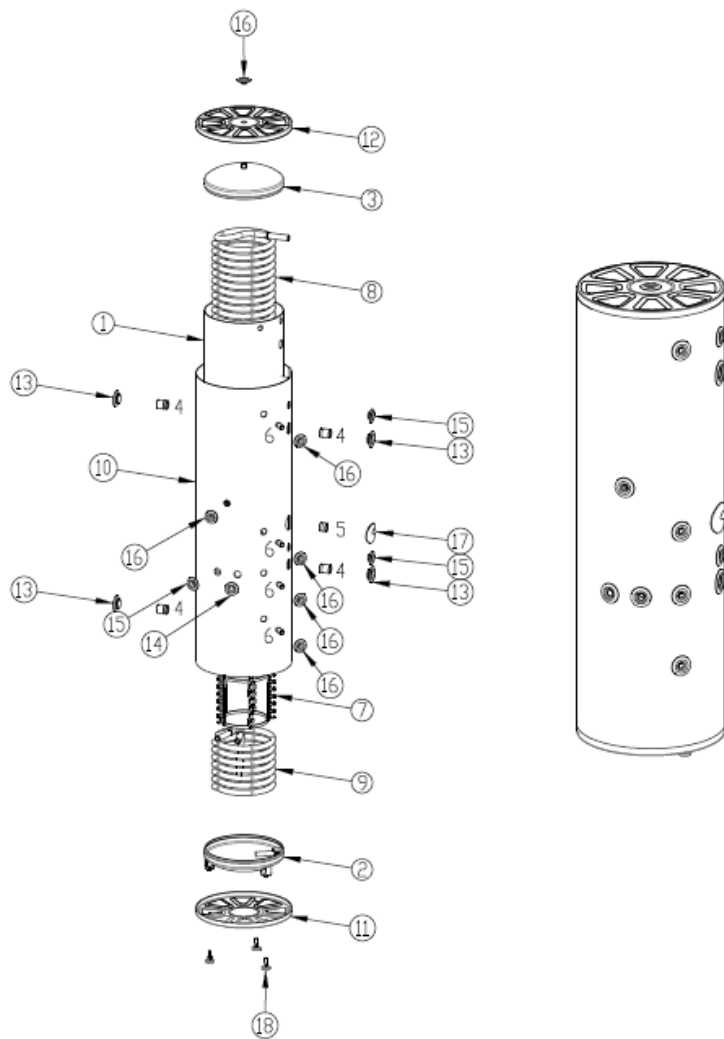


Numer	Nazwa	Ilość
1	Metalowa Warstwa, Dla Zbiornika 250 ZC-025, 1396x950x3mm , HRP	1
2	Dolna Pokrywa Zbiornika \varnothing 450x110x3mm	1
3	Górna Pokrywa Zbiornika \varnothing 450x110x3mm	2
4	Króciec 5/4" Dcynkowany 56mm	4
5	Króciec Grzałki 5/4" 25mm,	1
6	Króciec Czujnika, 1/2", Dcynkowany 56mm	3
7	Klatka Wężownicy, Zbiornik 250 ZC-025	1
8	Wężownica 17,5 Metrów, 3/4", 90x32 Sprzęgło Spawane	1
9	Warstwa metalowa, Zbiornik 250 ZC-025	1
10	Dolna Pokrywa Zbiornika, Białe Malowanie	1
11	Górna Pokrywa Zbiornika, Białe Malowanie	1
12	Uszczelka, Dla 5/4" Króćca, Czarna	4
13	Uszczelka, Dla 3/4" Króćca, Niebieska	1
14	Uszczelka, Dla 3/4" Króćca, Czerwona	1
15	Uszczelka, Dla 1/2" Króćca, Czerwona	4
16	Uszczelka, Dla Oporu, Czarna	1
17	Stopka Regulowana, 45mm Plastikowa, M12 Śruba	3

Tank dimensions 250 ZC-025

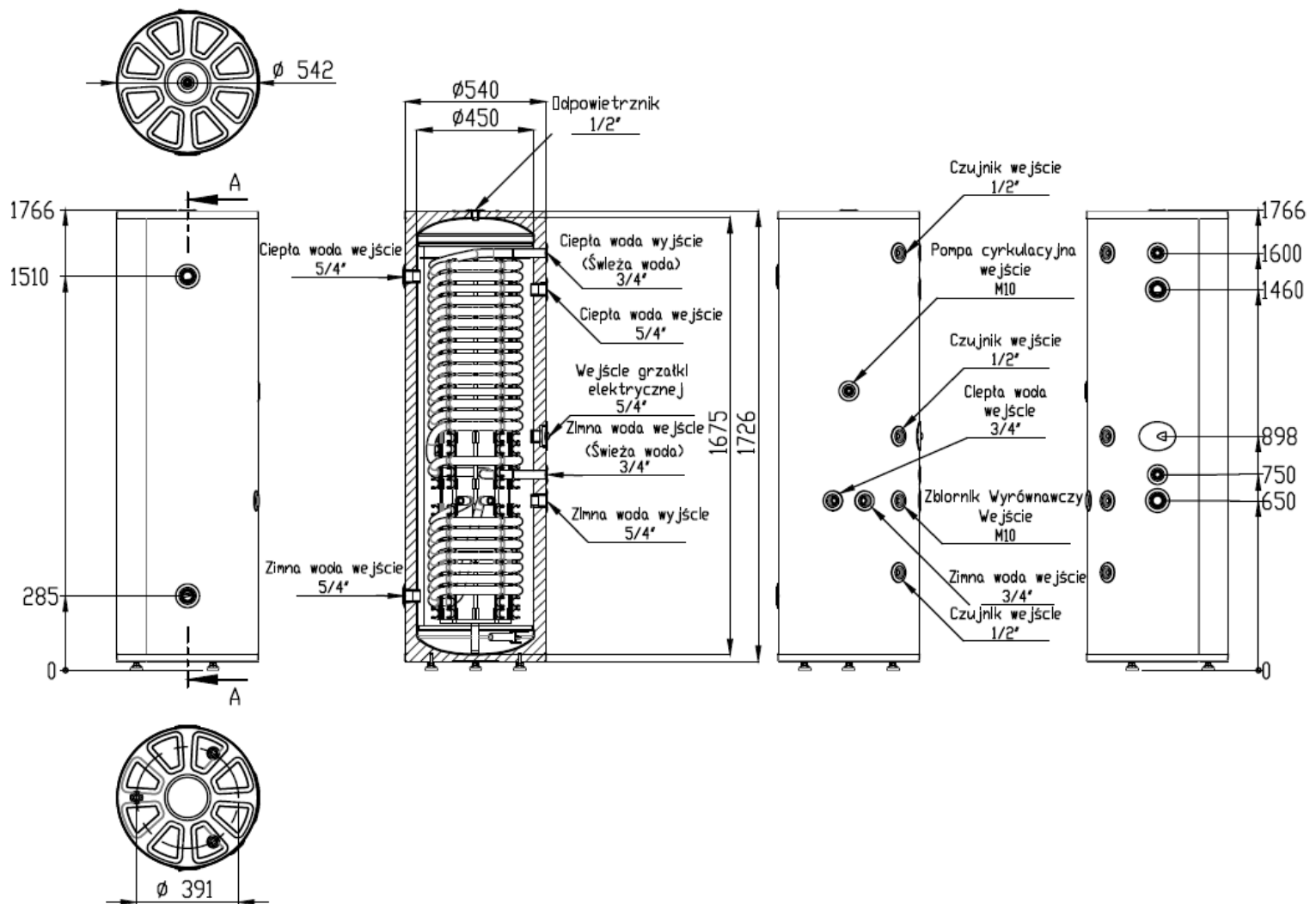


Construction of tank 250 with two coils ZCC-0 25

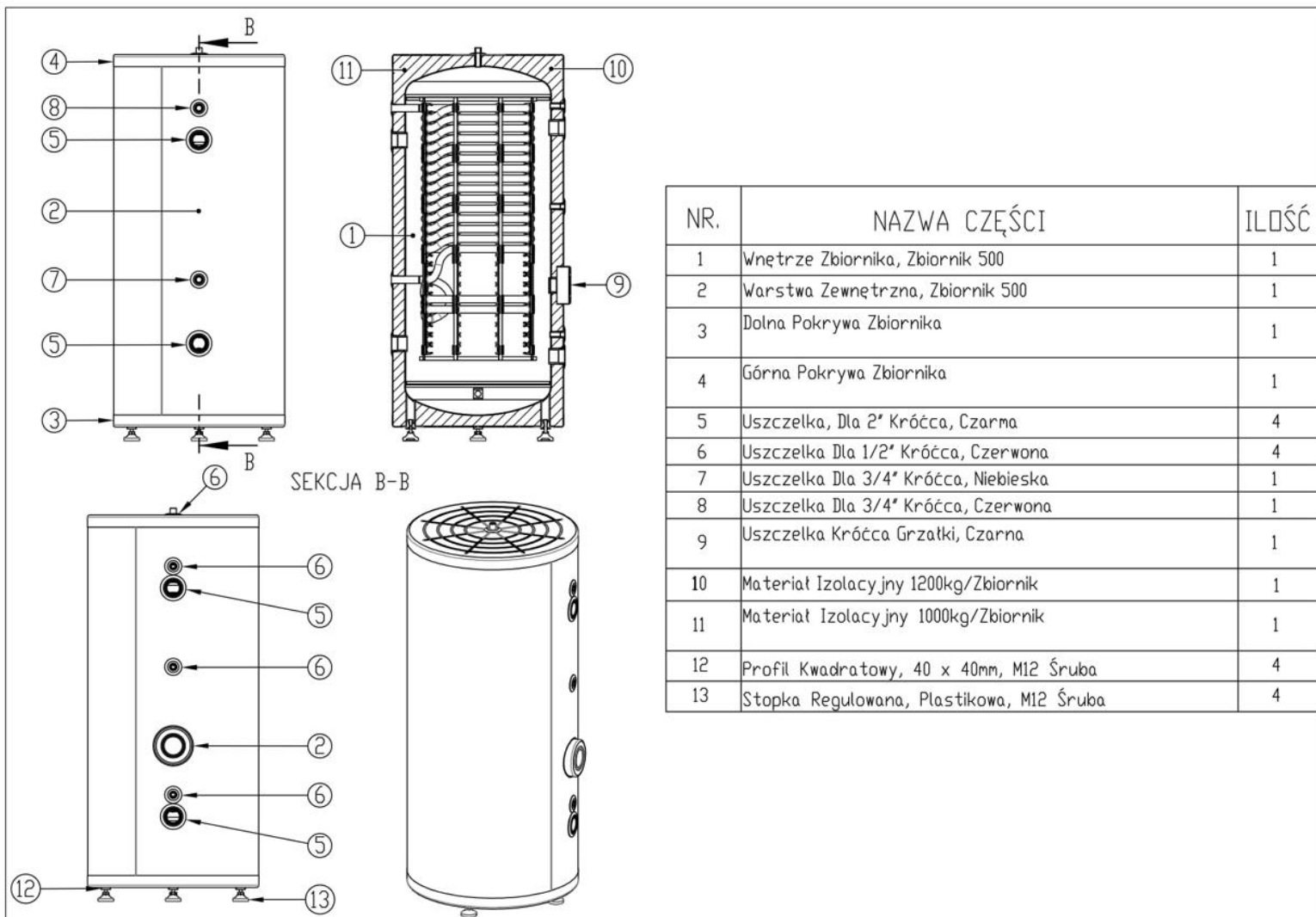


NUMER	NAZWA	ILOŚĆ
1	Metalowa Warstwa, Dla Zbiornika Z Dwoma Wężownicami ZCC-025, 1396x1475x3mm , HRP	1
2	Dolna Pokrywa Zbiornika \varnothing 450x110x3mm	1
3	Górna Pokrywa Zbiornika \varnothing 450x110x3mm	2
4	Króciec 5/4" Dcynkowany 56mm	4
5	Króciec Grzałki 5/4" 25mm	1
6	Króciec Czujnika 1/2", Dcynkowany 56mm	3
7	Klatka Wężownicy, Zbiornika Z Dwoma Wężownicami 250, ZCC-025	1
8	Wężownica 17,5 Metrów, DN 25, 3/4", 90x32 Sprzęgło Spawane	1
9	Wężownica 8 Metrów, DN 25, 3/4", 90x32 Sprzęgło Spawane	1
10	Warstwa Metalowa, Zbiornika Z Dwoma Wężownicami 250, ZCC-025	1
11	Dolna Pokrywa Zbiornika, Blate Malowane	1
12	Górna Pokrywa Zbiornika, Blate Malowane	1
13	Uszczelka, Dla 5/4" Króćca, Czarna	4
14	Uszczelka, Dla 3/4" Króćca, Niebieska	1
15	Uszczelka, Dla 3/4" Króćca, Czerwona	1
16	Uszczelka, Dla 3/4" Króćca, Czerwona	4
17	Uszczelka, Dla Grzałki, Czarna	1
18	Stopka Regulowana, 45mm Plastikowa, M12 Śruba	3

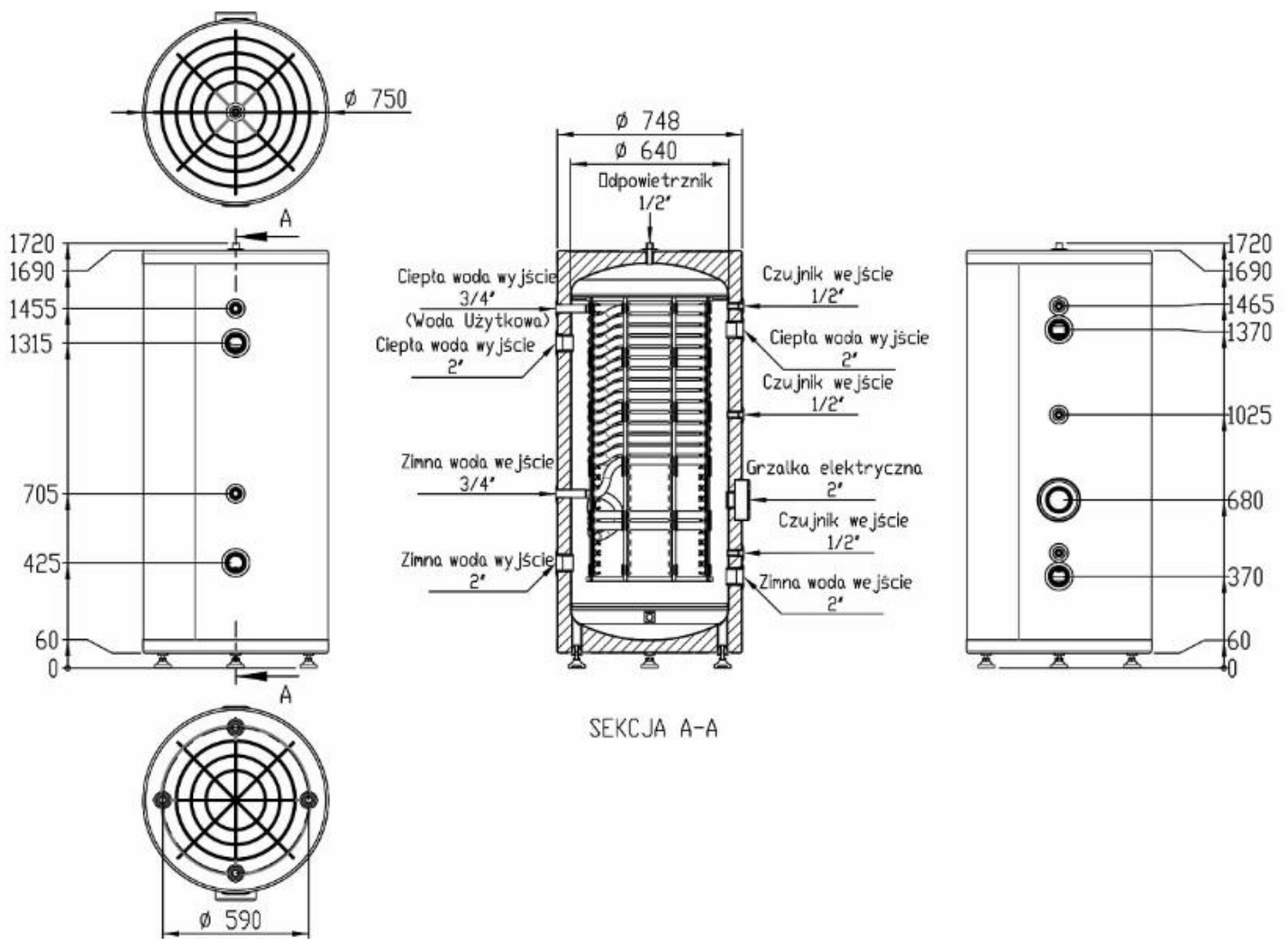
Tank dimensions 250 with two coils ZCC-025



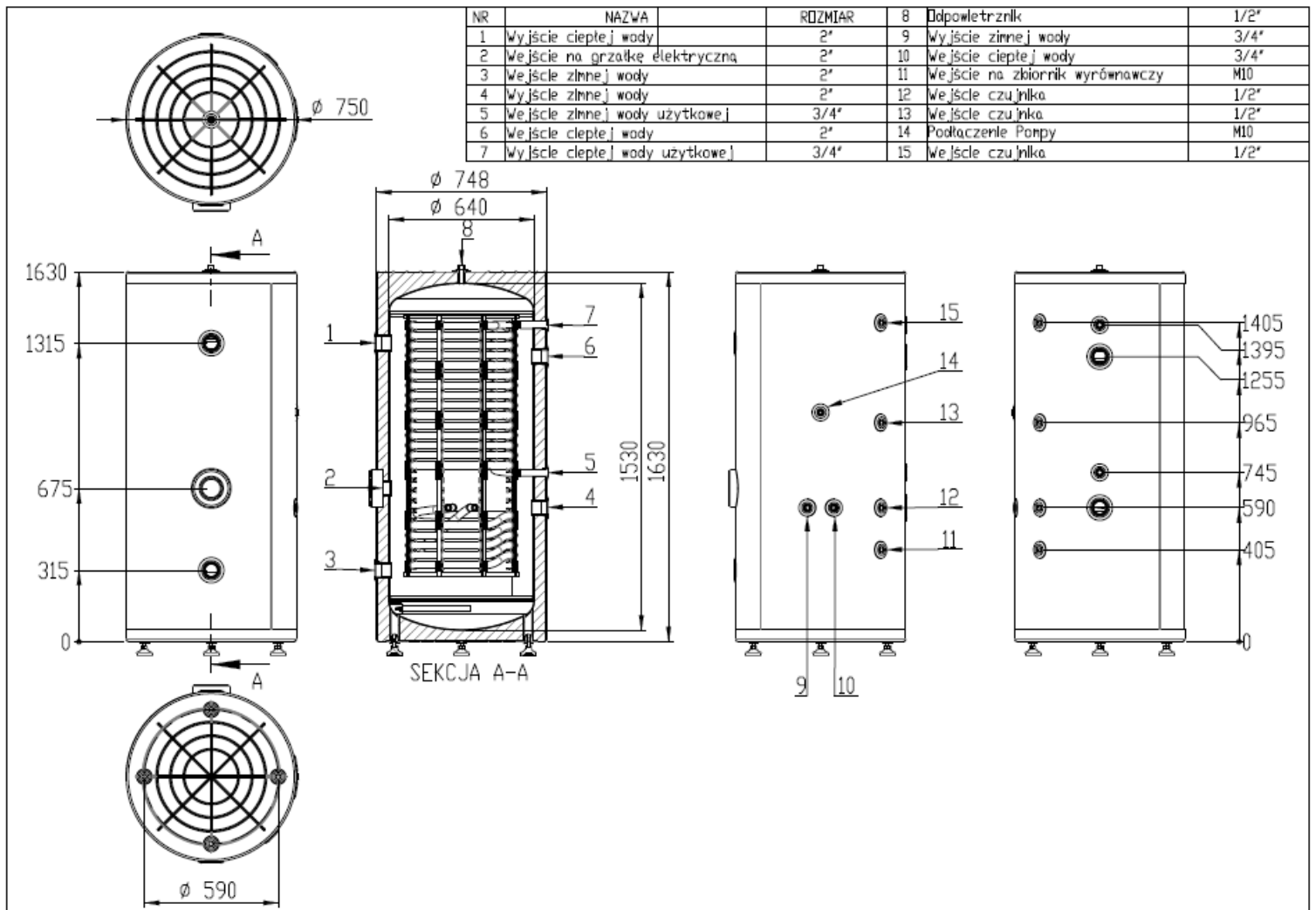
Tank construction 500 ZC-05



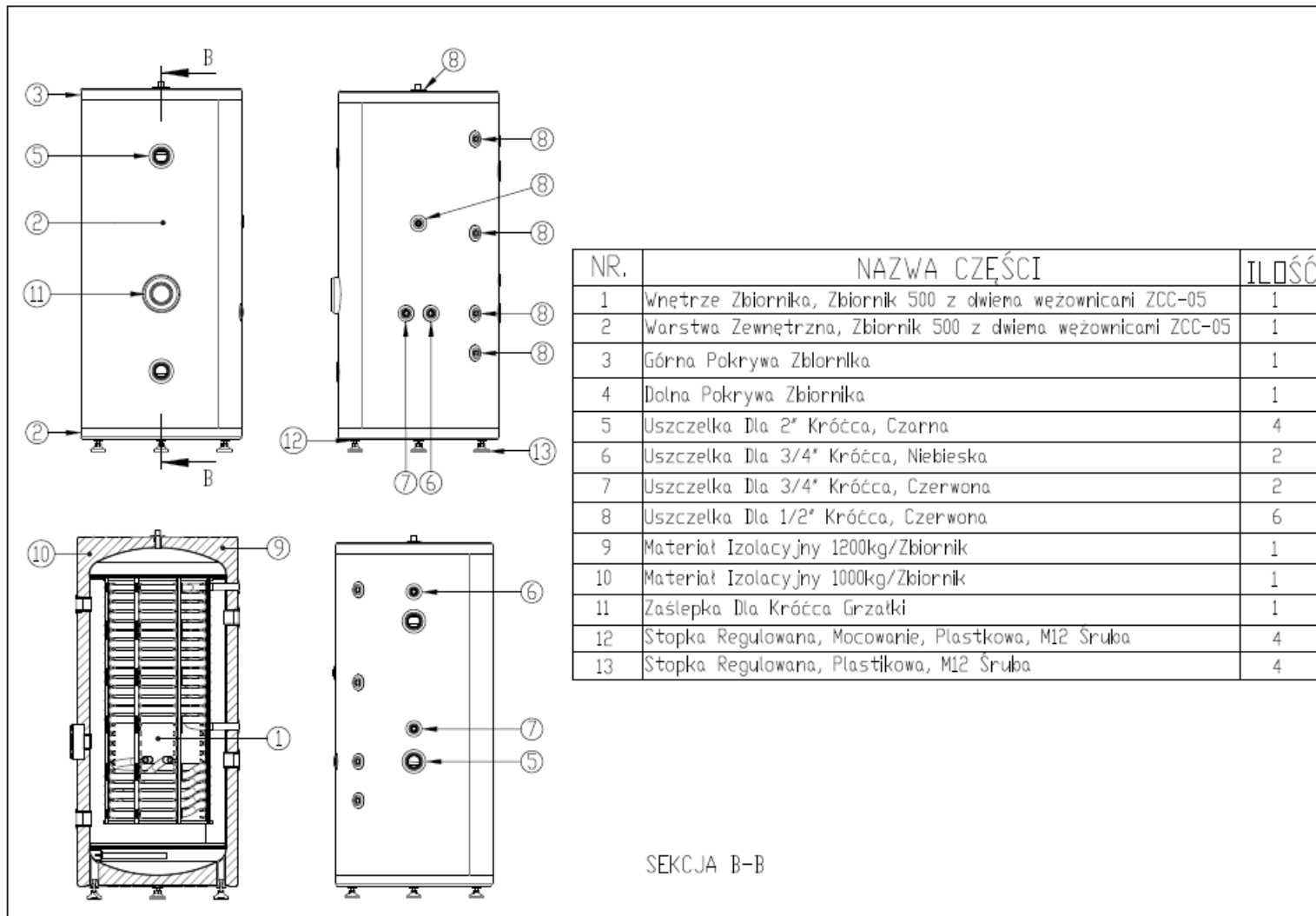
Tank dimensions 500 ZC-05



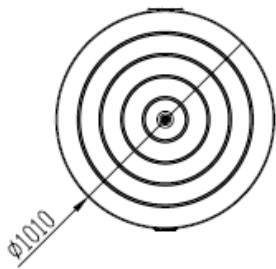
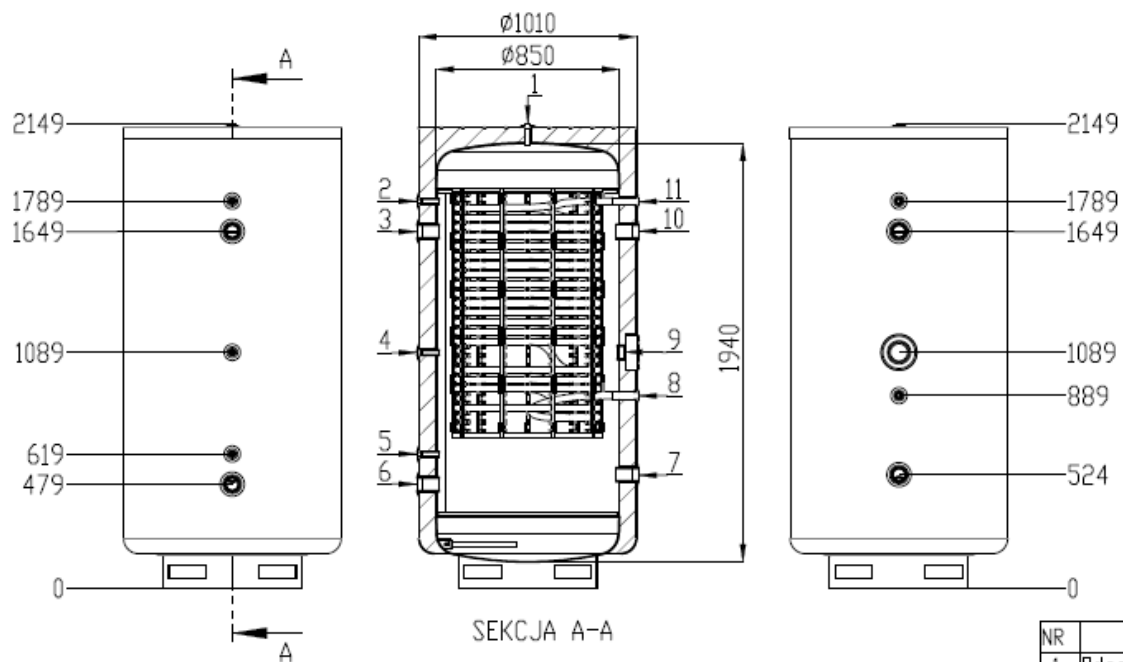
Tank dimensions 500 with two coils ZCC-05



Construction of Tank 500 with two coils ZCC-05



Dimensions and construction of the tank 1000 ZC-10



NR	NAZWA	ROZMIAR
1	Odpowietrznik	1/2"
2	Wejście czujnika	1/2"
3	Wyjście ciepłej wody	2"
4	Wejście czujnika	1/2"
5	Wejście czujnika	1/2"
6	Wejście zimnej wody	2"
7	Wyjście zimnej wody	2"
8	Wejście zimnej wody użytkowej	3/4"
9	Wejście na grzałkę elektryczną	2"
10	Wejście ciepłej wody	2"
11	Wyjście ciepłej wody użytkowej	3/4"
12	Wejście na termometr	1/2"

CONNECTION TO THE PLUMBING SYSTEM

The connection to the plumbing system should be made in accordance with PN-76/B-02440.

The tank is a pressure device adapted to connect to the water supply system, the maximum pressure of the tank is 0.6 MPa, and the maximum pressure of the coil is 0.6 MPa, if the pressure in the water supply system exceeds this value, a pressure reducer should be installed before the tank.

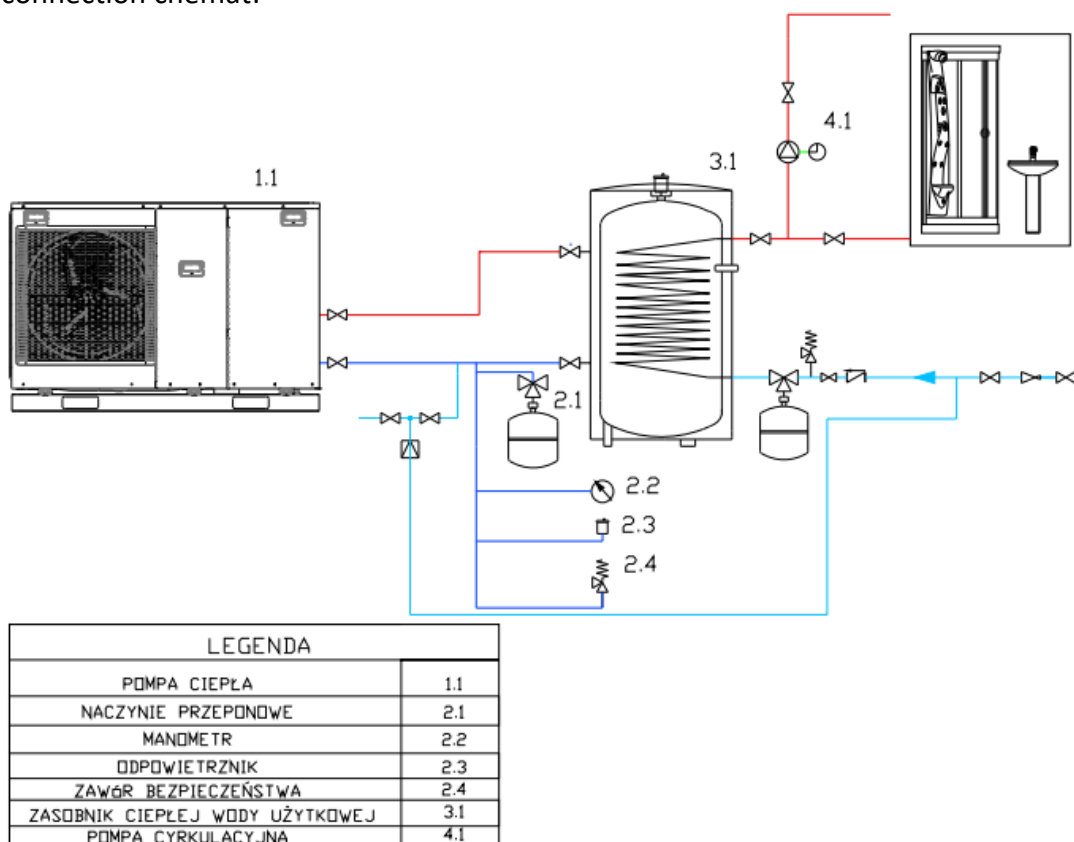
The tank must be connected to the water supply network as follows:

- A non-return valve should be installed on the water supply side to avoid the flow of water from the tank side
- to the cold water supply port, install a tee with a safety group including a diaphragm vessel and a safety valve with an opening pressure of 6 bar; there must be no shut-off valve or throttling element between the tank and the safety valve and at its outlet, the safety valve must be mounted in such a way that water leakage is visible,
- connect the exchanger with the installed safety valve to the water supply system,
- On the supply of cold water install a shut-off valve.

The domestic hot water outlet should be connected to the connector, which is located on the upper part of the exchanger.

Circulation should be plugged in according to the scheme.

Suggested connection chemat:

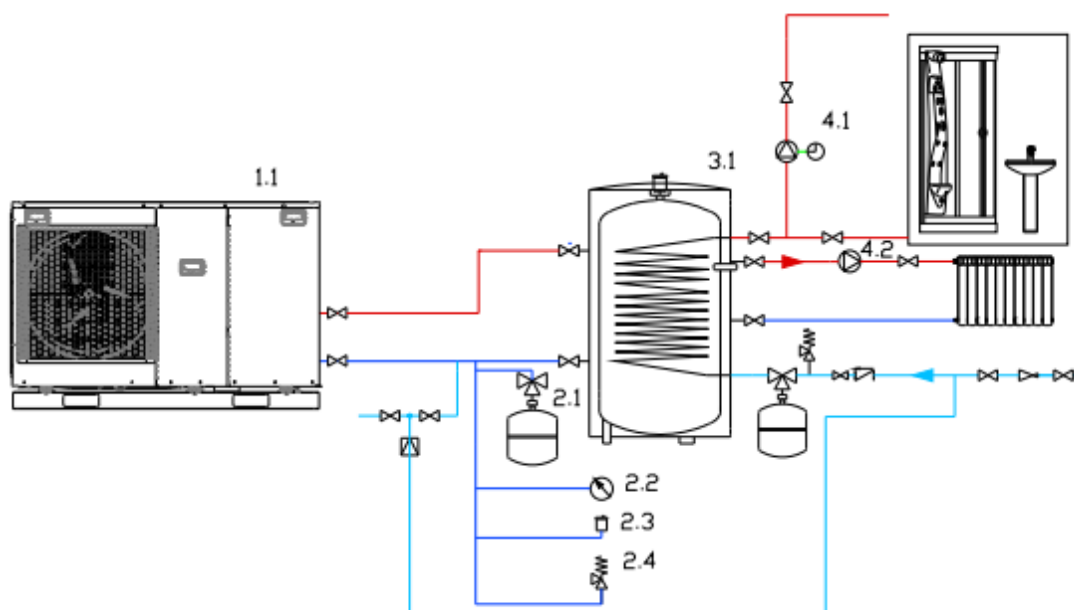


CONNECTION TO CENTRAL HEATING AND PLUMBING

The connection should be made as in the case of connection to the plumbing system and additionally make:

- The connection to the central heating system should be made using 5/4" connection screws and shut-off valves should be placed behind the screws.

Example connection diagram:



LEGENDA	
POMPA CIEPŁA	1.1
NACZYNIĘ PRZEPONOWE	2.1
MANOMETR	2.2
ODPOWIETRZNIK	2.3
ZAWÓR BEZPIECZEŃSTWA	2.4
ZASOBNIK CIEPŁEJ WODY UŻYTKOWEJ	3.1
POMPA CYRKULACYJNA	4.1
POMPA OBIEGOWA	4.2

RUN

Before starting the tank, it is necessary to check the correctness of the connection of the device and the correctness of assembly according to the schemes.

The tank must be filled with water:

- Open the valve on the cold water supply,
- Open the hot water intake valve in the system (the outflow of a full stream of water without air bubbles indicates that the tank is full),
- Close the tap valves.

TANK EMPTYING

In order to empty the tank of water, it is necessary to:

- close the valves connecting the exchanger to the heating circuit,
- close the valve on the cold water supply to the exchanger,
- Open the drain valve.

OPERATION

Tanks are safe and reliable provided that the following rules are observed:

- do not operate the tank without a working safety valve,
- the operation of the valve should be checked every 14 days by turning the cap so that there is a slight discharge of water,
- it is recommended to thermally insulate the discharge pipe and the coil connection pipes to reduce heat loss,
- Any irregularities in the operation of the device should be reported to the service facility.

These activities are at your own expense and are not subject to warranty.

TECHNICAL SPECIFICATIONS

Domestic hot water tank		ZC-02	ZC-0 25	ZCC-025	ZC-05	ZCC-05	ZC-10
Rated capacity	l	170	245	245	454	454	970
Energy efficiency		B	B	C	B	C	B
Maximum pressure	tank	0.6					
	coil	0.6					
Rated temperature	°C	90					
Coil surface (top)	m ²	3.83 m			5,48	4,81	8.76 m
Coil surface (bottom)	m ²	X	X	1,75	X	1,75	X
Coil capacity	L	10,20			13,5	12,02	21,9
Coil capacity (bottom)	L	X	X	4,9	X	4,9	X
Net weight	Kg	75	78	80	100	102	190

WHAT TO DO IN CASE OF DAMAGE OR IRREGULARITIES

Abnormality	Instructions for use
Tank water leakage	turn off the cold water supply valve and the shut-off valves of the central heating system and contact the service
Excessive pressure increase in the tank	
Pressure increase in the central heating system	
Dirty water in the device	The tank must be cleaned from accumulated sediments — for this purpose, contact a specialist service provider

RECYCLING AND DISPOSAL OF WASTE

Product and equipment disposal :

The product and equipment must not be disposed of with household waste.

Care must be taken to ensure that the product and all equipment are disposed of correctly. All applicable laws must be observed.

DECOMMISSIONING

Used product cannot be treated as municipal waste. Proper disposal of the used product prevents potential negative effects on the environment that could occur in the event of improper waste management . For more detailed information on the recycling of this product, please contact your local government unit, waste management services.



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