

# OPERATING AND INSTALLATION MANUAL

## COMBINED WATER TANKS FOR VERTICAL MOUNTING

### Hot water tanks

OKC 125/1 m<sup>2</sup> 2/6 kW

OKC 160/1 m<sup>2</sup> 2/6 kW

OKC 200/1 m<sup>2</sup> 2/6 kW



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 **DRAŽICE**  
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## CAREFULLY READ THIS MANUAL BEFORE INSTALLING THE WATER HEATER!

Dear Customer,

Družstevní závody Dražice - strojírna s.r.o., would like to thank you for your decision to use a product of our brand. With this guide, we will introduce you to the use, construction, maintenance and other information on electrical water heaters.



The product is not intended to be controlled by

- a) people (including children) with reduced physical, sensual or mental capacities, or
- b) people with insufficient knowledge and experiences unless supervised by responsible person, or unless properly instructed by such responsible person.

The manufacturer reserves the right for engineering modification of the product. The product is designed for permanent contact with drinkable water.

It is recommended to use the product in indoor environment with air temperatures from +2 °C to +45 °C and a relative humidity up to 80 %.

Product's reliability and safety is proven by tests implemented by the Engineering Test Institute in Brno.

Made in the Czech Republic.

### Meaning of pictograms used in the Manual



**Important information for heater users.**



**Abiding by the recommendations of the manufacturer serves to ensure trouble-free operation and the long service life of the product.**



**Caution!**  
**Important notice to be observed.**

# 1 PRODUCT TECHNICAL SPECIFICATION

## 1.1 FUNCTION DESCRIPTION

Tank type water heater (the heater hereinafter) is designed for the accumulation heating of service water by electric energy, or by thermal energy through an exchange. Water is heated by an electric element or a heat exchanger in an enameled thermally insulated tank. The element is at the time of heating controlled by a thermostat the temperature of which can be adjusted continuously (within the range between 5 °C and 75 °C). Once the selected temperature is reached, heating interrupts automatically. Water accumulated in the tank is then used for the consumption. The tank keeps constant pressure of water from the water main. If the combination faucet hot water valve is opened, water from the water supply conduit pressed out by cold water pressure flows out of the heater. Hot water flows out through the top part, and water flowing in remains in the bottom part of the heater. Pressure principle allows hot water to be withdrawn at any place from the heater.

## 1.2 ADVICE FOR CUSTOMERS

### 1.2.1 HOT WATER CONSUMPTION



Consumption of hot water in households depends on the number of people, amount of sanitary equipment, length, diameter, and insulation of piping in the flat, or on individual habits of users. The cheapest option of water heating comes at the time when the electricity rate is reduced.



Find out in what time intervals your electricity supplier provides reduced tariff and, depending on that information, select relevant volume and power input of the heater so that your hot water consumption covered the needs of your household.

### 1.2.2 ENERGY SAVING



The heater is insulated with quality polyurethane Freon free foam. Set the temperature of the heater's thermostat to that level only that you need to run your home. Thus, you will reduce electricity consumption, as well as the amount of lime sediments on the walls of the receptacle and on the heat exchanger.

### 1.2.3 EMERGENCY POWER CONSUMPTION



If no heated water is taken from the tank, a small amount of heat leaks. This loss is measured for a period of 24 hours at the temperature of 65 °C in the heater, and at 20 °C in its ambient area. The resulting value is expressed in units [kWh/24h] and indicates the amount of power needed to maintain the set temperature.

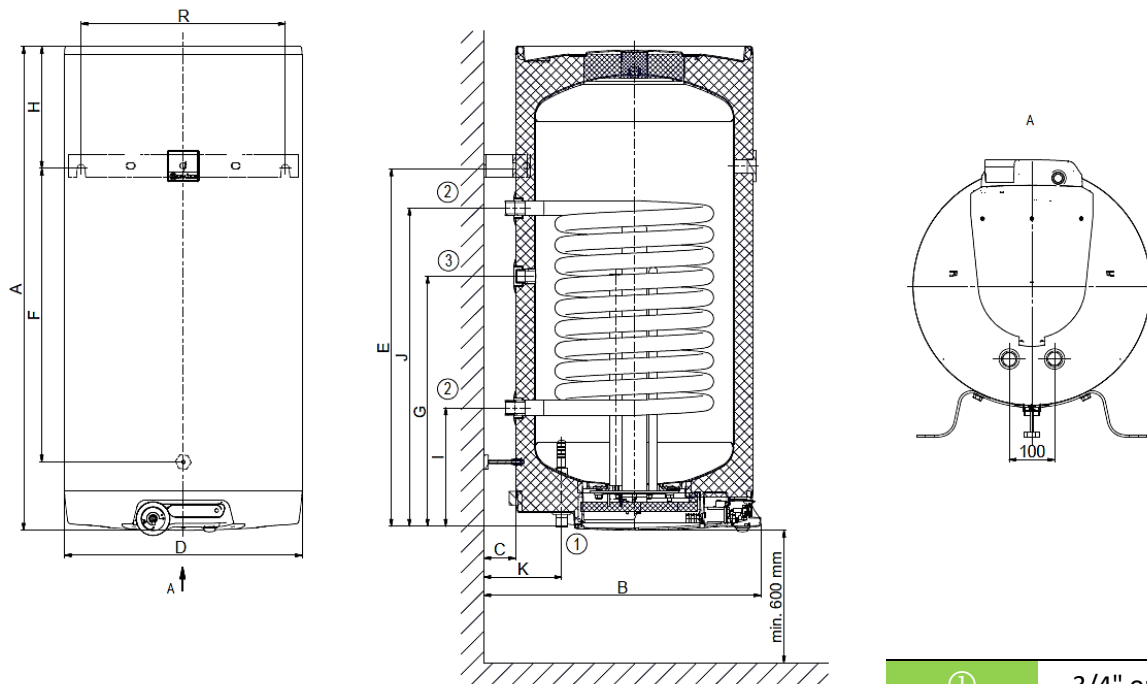
TANK TYPES	NOMINAL CAPACITY [l]	TIME OF HEATING BY HEATING ELEMENT FROM 10°C TO 60°C [hours]	ELECTRICITY CONSUMPTION FOR HEATING OF VOLUME FROM 15°C TO 65°C in kWh
OKC 125/1 m <sup>2</sup> 2/6 kW	120	3.5 / 2000 W	8
OKC 160/1 m <sup>2</sup> 2/6 kW	147	4,3 / 2000 W	9.6
OKC 200/1 m <sup>2</sup> 2/6 kW	195	5,7 / 2000 W	11.8

Table 1

### 1.3 DESIGN AND GENERAL HEATER DIMENSIONS

The heater tanks are made of a steel plate and tested by 1.5 MPa multiple of operation pressure value. The inside of the tank is enameled. A flange is welded onto the bottom of the tank with a flange lid screwed to it. A sealing ring is inserted between the flange lid and the flange. Thermowells for placing a heating element and sensors of regulation thermostat and safety fuse are located in the flange lid. An anode rod is mounted onto the M8 nut. The heater is insulated with hard polyurethane Freon free foam. Electric wiring is placed underneath the plastic removable cover. The temperature of water can be set using the thermostat. In combined versions, a heat exchanger is welded in the pressure tank. The heat exchanger is only intended for the heating circuit.

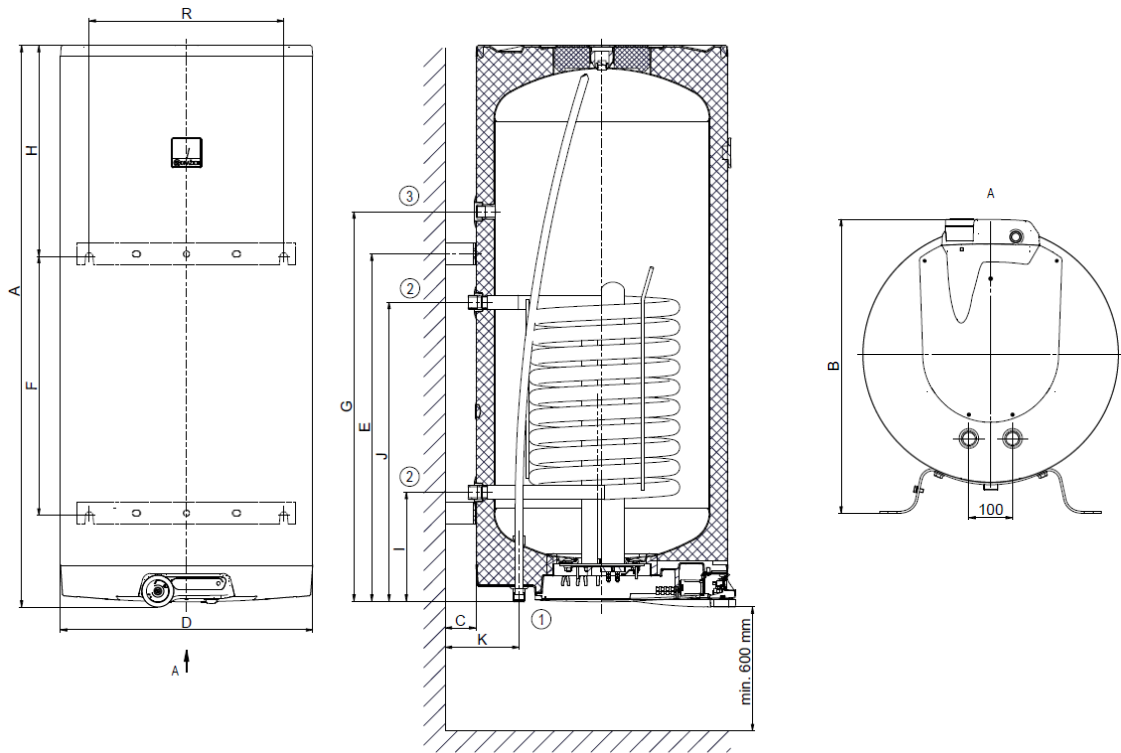
#### OKC 125/1m<sup>2</sup> 2/6 kW



Upper suspension + detent support (rectifying screw)

Figure 1

OKC 160/1m<sup>2</sup> 2/6 kW, OKC 200/1m<sup>2</sup> 2/6 kW



Upper suspension + lower suspension

Figure 2

TYPE	OKC 125/1m <sup>2</sup> - 2/6 kW	OKC 160/1m <sup>2</sup> 2/6 kW	OKC 200/1m <sup>2</sup> 2/6 kW
A	1067	1255	1300
B	612	612	672
C	70	70	70
D	524	524	584
E	789	991	804
F	645	815	600
G	550	830	902
H	268	254	490
I	263	263	252
J	703	703	692
K	172	172	172
R	450	450	450

①	3/4" outer
②	1" outer
③	3/4" inner

\*Check the R dimensions before drilling.

Table 2

TYPE		OKC 125/1m <sup>2</sup> 2/6 kW	OKC 160/1m <sup>2</sup> 2/6 kW	OKC 200/1m <sup>2</sup> 2/6 kW
VOLUME	l	120	147	195
MAX OPERATING OVERPRESSURE IN THE TANK	bar		6	
MAX MAXIMUM OPERATING OVERPRESSURE IN THE EXCHANGER*	bar		10	
RECOMMENDED BREAKER			3x16 A	
ELECTRICAL CONNECTION	V		3 PE-N ~ 400V/50Hz	
INPUT	W		2000 / 6000	
EL. PROTECTION			IP 44	
MAX OPERATING TEMPERATURE OF WATER IN THE TANK	°C		80	
MAX OPERATING TEMPERATURE IN THE EXCHANGER	°C		110	
RECOMMENDED TEMPERATURE OF HOT WATER	°C		60	
HEIGHT OF THE HEATER	mm	1067	1255	1300
DIAMETER OF THE HEATER	mm	524	524	584
MAX WEIGHT OF THE HEATER WITHOUT WATER	kg	64	71	88
TIME OF EL. HEATING FROM 10°C TO 60°C*	hours	3.5 1.1	4,3 1.3	5.7 1.7
TYPE		OKC 125/1m <sup>2</sup> 2/6 kW	OKC 160/1m <sup>2</sup> 2/6 kW	OKC 200/1m <sup>2</sup> 2/6 kW
EXCHANGER HEAT TRANSFER SURFACE	m <sup>2</sup>	1.08	1.08	1,08
RATED OUTPUT AT HEATING WATER TEMPERATURE OF 80°C AND FLOW 720 L/HRS	W	24000	24000	24000
TIME OF HEATING BY EXCHANGER FROM 10°C TO 60°C	min	17	21	28
STATIC LOSS	W	57	67	72

Table 3

## 2 OPERATION AND FITTING INSTRUCTIONS

### 2.1 OPERATING CONDITIONS



The tank shall only be used in accordance with the conditions specified on the nameplate and in this manual. Besides the legally acknowledged national regulations and standards, also conditions for the connection defined in local electric and water works have to be adhered to, as well as the installation and operation manual.

The temperature at the place of heater installation must be higher than +2 °C; and the room must not freeze. The appliance has to be mounted at a convenient place, it means that the appliance must be easily available for potential necessary maintenance, repair or replacement, as the case may be.

**We would like to draw attention to the fact that the tank may not be connected to power supply if flammable liquids (benzine, stain cleaner) or gases, etc., are handled in its proximity.**



If water is strongly calcareous, we recommend that a common decalcifying device was installed with the appliance, or that the thermostat was set to the minimum operating temperature of 55 °C (setting to position "OPTIMUM") - Figure 9. For proper operation, drinkable water of adequate quality shall be used. To avoid potential sediments, we recommend that the device was installed together with a water filter.

### 2.2 WALL MOUNTING



Prior to the mounting check the bearing capacity of the wall and the material it is made of, considering the weight of the heater filled with water. Depending on the wall material choose adequate fixtures. We recommend entrusting wall mounting and anchoring to a specialist company or discussing the anchorage with an expert. **When mounting the anchor bolts follow the manual provided by the anchor bolts' manufacturer.**

**Neither the control knob of the thermostat, nor another part of the control panel is a bearing part which may be used for any handling of the heater!**

Mount the anchors by the dimensional drawing (Figure 1, Figure 2) in a **450 mm** spacing. **Proper verticality of heater can be adjusted by slight turning of the suspension once the connecting screws are loosened.** Double check the torque of the suspension bolts on the heater and suspend the heater. Using the detent support in the bottom part of the heater make sure it runs in parallel with the wall of the 125 l heater.





Figure 3



If the hot water heater is mounted in a **tight, smaller space**, or in an intermediate ceiling, etc., you have to make sure that the connecting side of the appliance (connections to water supply, area for electric plugging) remained accessible and no heat accumulation occurs. Free space of up to **600 mm** from the bottom edge of the heater has to be left available under the heater. When mounted directly under the ceiling, the distance from the ceiling has to be **50 mm** at least.

If the water heater is mounted in enclosed areas, inter-ceilings, built-in structures and recesses, ensure sufficient access to service fittings, electrical terminal boards, anodes and manholes. Minimum spacing from manhole is 600 mm.

## 2.3 PLUMBING FIXTURE



The heater connects to water distribution pipes with 3/4" thread tubes in the bottom part of the heater. Blue - cold water supply, red - hot water outlet. For potential disconnection of the heater, service water inlets and outlets must be provided with screw coupling Js 3/4". The safety valve is mounted on the cold water inlet identified with a blue ring.



The heater must be equipped with a membrane, spring-loaded safety valve. Safety valves with fixed pressure settings from the manufacturer are used for the assembly. Each individually lockable heater must be fitted with a cap on the cold water inlet, a test valve or a stopper to check the operation of the check valve, with a drain valve, a check valve and a safety valve (Figure 4). **The safety valve with a check valve is supplied with the heater.**



It is necessary to check the safety valve each time before putting it into operation. It is checked by manual moving of the membrane from the seat, turning the make-and-break device button always in the direction of the arrow. After being turned, the button must click back into a notch. Proper function of the make-and-break device results in water draining through the safety valve outlet pipe.

In common operation, such a check needs to be implemented at least once a month, and after each heater shutdown for more than 5 days. Water may be dripping off the drain pipe of the safety valve; the pipe must be open into the air, pointed down; environment temperatures must not drop below zero.

SAFETY VALVE START-UP PRESSURE [MPa]	ALLOWABLE OPERATING OVERPRESSURE OF WATER HEATER [MPa]	MAX PRESSURE IN COLD WATER PIPING [MPa]
0.6	0.6	up to 0.48

Table 4

If the water main pressure exceeds such value, a reduction valve must be added to the system.

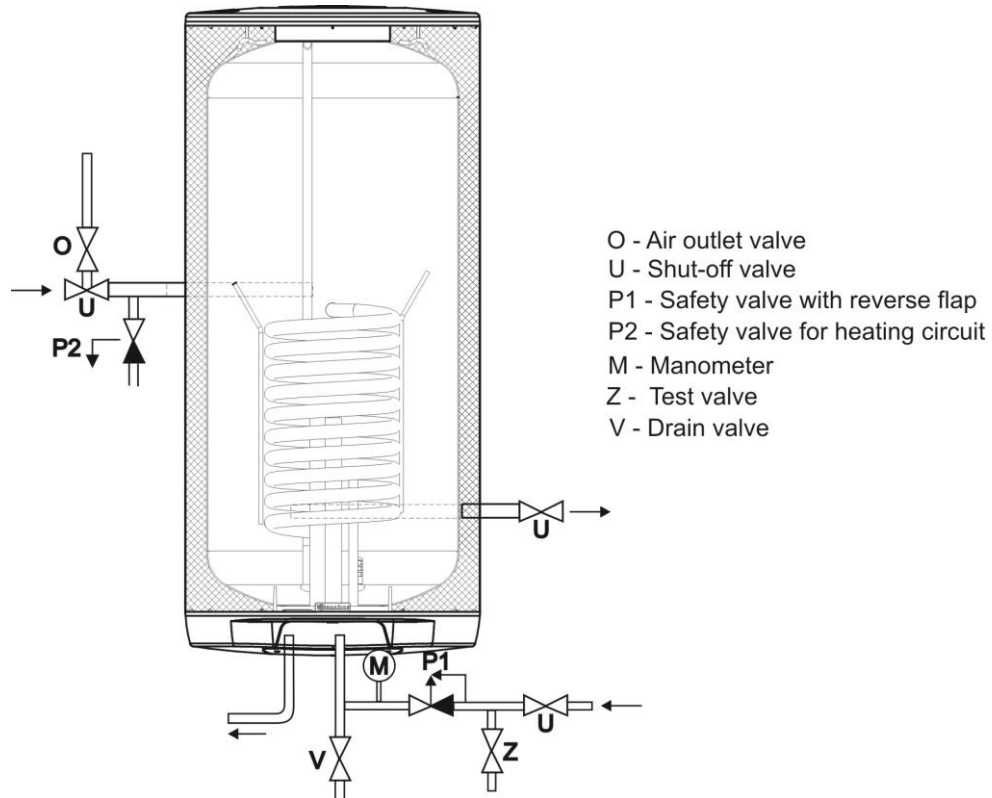


Figure 4



It is recommended to install stop valves on the heating water inlet and outlet (for possible dismantling of the heater). Valves should be as close as possible to the heater to minimize heat losses.

## TANK TYPE COMBINED WATER HEATER HOT WATER DISTRIBUTION

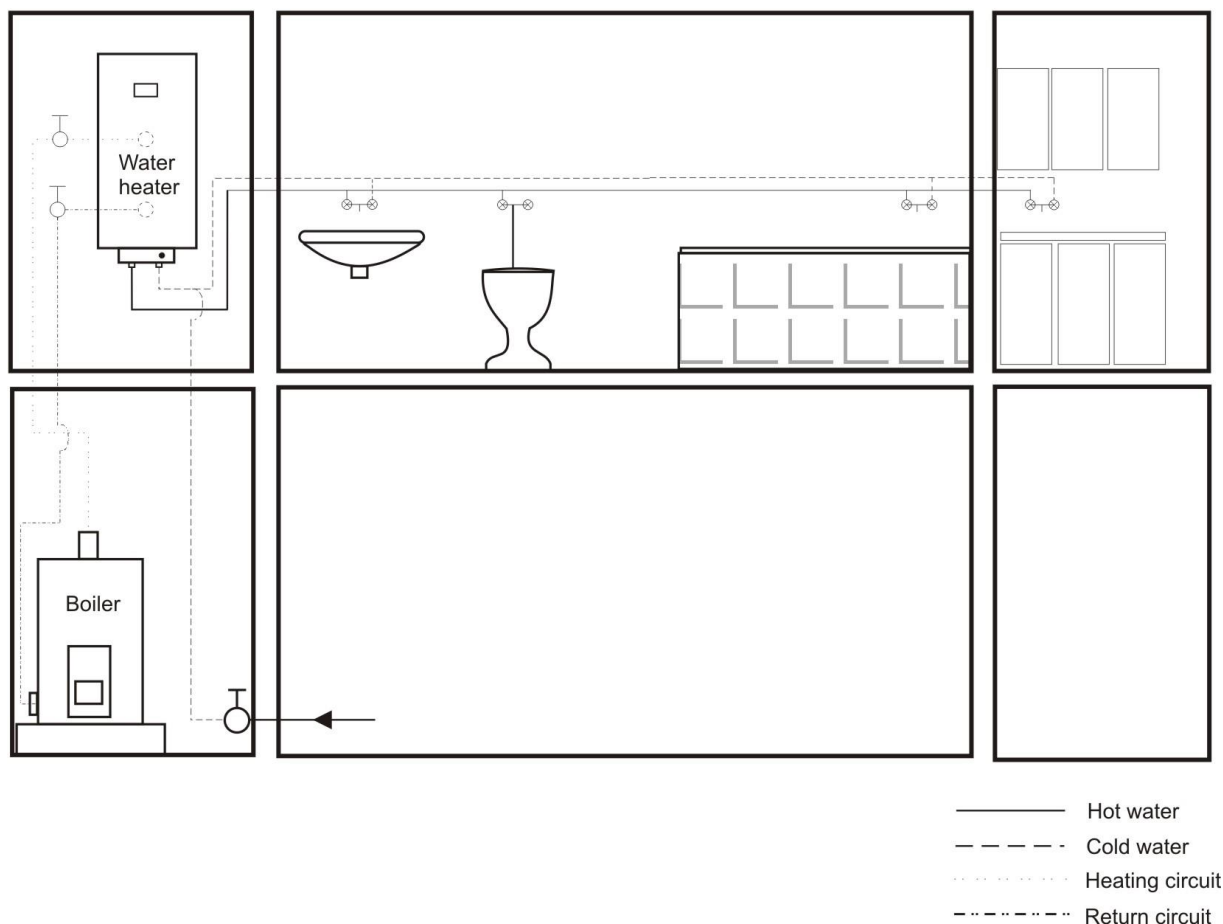


Figure 5

## 2.4 ELECTRICAL INSTALLATION

### 2.4.1 GENERAL INFORMATION FOR ELECTRICAL INSTALLATION

Execute the connection as indicated in the wiring diagram. Factory connection must not be changed! (Figure 7) In the electric wiring cabinet remove the partition corresponding with the input wire diameter of  $\phi 8$  or  $\phi 10$  (Figure 6). The degree of protection of the electrical parts of the heater is IP 44. Power input of electric element is 3x2000 W. Use pre-installed brackets to hold the lead cable.

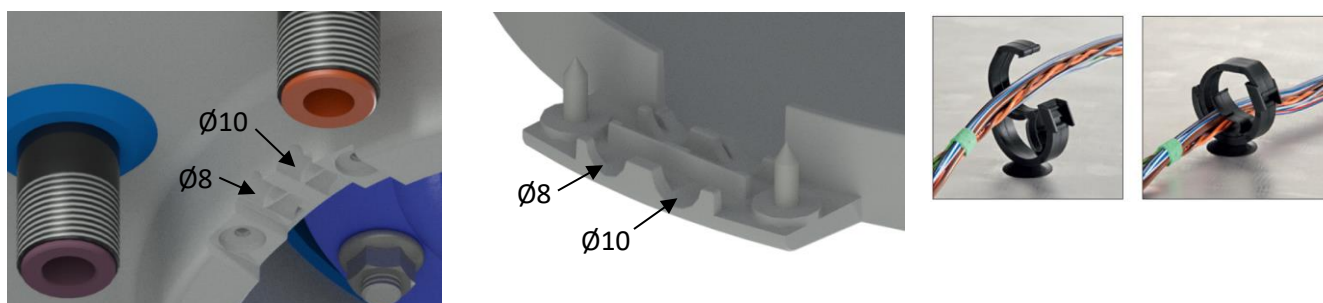


Figure 6

It is necessary to observe the below requirements during the electric wiring.



- The wiring diagram is attached to the heater on the side of the electric installation guard (Figure 7).
- The electrical installation may only be connected, repaired and inspected by a person authorized to perform that activity.
- Expert connection must be confirmed on the warranty certificate or demonstrated by another certificate.
- Heater is connected to the 3x230 V (400 V) / 50 Hz power grid using a fixed moving conductor with the circuit breaker (protector).
- In OKC 125/1m<sup>2</sup> heaters, after wall mounting and adjusting the distance from the wall by M8x80 adjusting screw, connect the external protective connection wire to the adjusting screw.
- After wall mounting of the OKC 160/1m<sup>2</sup>, OKC 200/1m<sup>2</sup> heater, connect the external protective connection wire to the bottom hinge to the earth screw.
- Installations in bathrooms, laundry rooms, rest rooms and showers, must be in compliance with standard.
- The degree of protection of electric parts of the heater is IP 44.
- Adhere to the protection against electric shock injury according to standard.

## Wiring scheme

**R1, R2, R3** - rating element - 230 VAC, 2000 W, 8.5 A

**1** - blue control lamp - 2000 W

**2** - red control lamp - fast heating 6000 W

**ST** - power relay, inductor 230 VAC

**Re** - power relay, inductor 230 VAC

**Fu** - fuse Ø 5mm x 20mm, 500 mA

**TL** - button - fast heating, START

**Te1** - service thermostat - round control button on the control knob

**Te2** - thermostat and thermal (emergency) fuse - inside the control button, under the electrical installation cover

**PE, N, L1, L2, L3** - connecting terminals, power supply

**HDO** - external contact terminal - locking / switching with HDO tariff switch (contact switches current 8.5 A, 2000 W)

**FVE** - external contact terminal - preferred fast heating (contact switches current to 0.5 A)

**TL** - external push button terminal (small terminal boards with fuse)

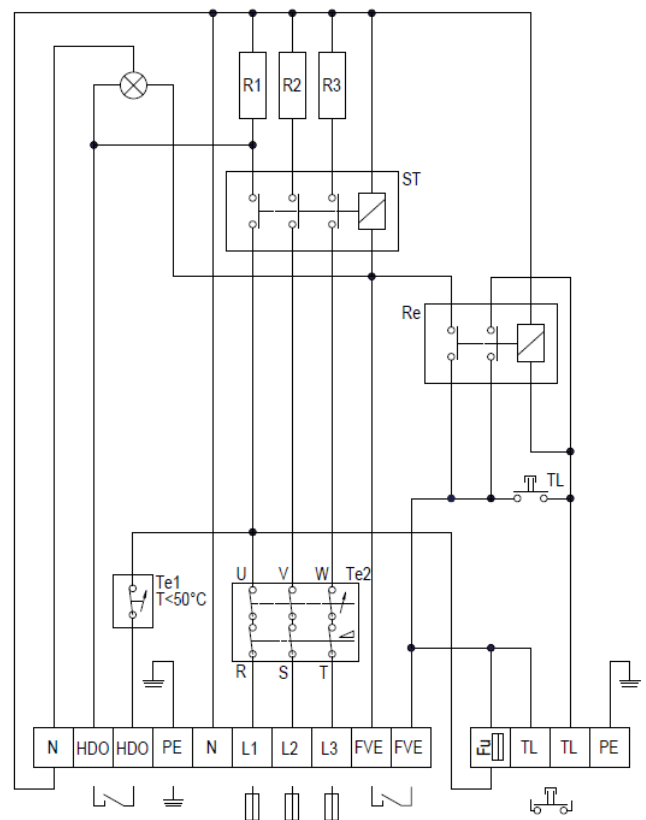


Figure 7

## 2.5 OPERATING ACTIVITY

**Basic heating, 2 kW/230 V/8.5 A - 1 phase -** controlled by thermostat Te1. The temperature can be set using the panel on the heaters in the range of approx. 5 °C to approx. 75 °C by setting the temperature on the thermostat Te2. Te1 temperature should be set lower than Te2. Operation is indicated by blue indicator light **1**. In factory setting, HDO contacts are connected through a terminal. That arrangement does not provide heating during low tariff electricity. To use low rate heating only, it is necessary to connect HDO terminals through an external switch operated by the HDO.

- **Fast heating** at the output of **6 kW** / voltage 3 x 230 V (400 V) or 4 kW with the L2 or L3 phase power supply disconnected (breaker off), which is possible only in case of single-phase circuit breakers installation and not in the combined version.

Using the fast heating feature allows heating up the volume of the heater at any time in a third of the basic heating time without affecting the status of HDO blocking.

Press the TL button on the remote control to start fast heating, it will stop automatically upon the reaching of the water temperature set on the thermostat Te2 which is mounted inside the control. From the factory, the thermostat is set to the maximum temperature of approx. 75 °C, lower temperature can be selected followed with adjusting the temperature on thermostat Te1.

The operation is indicated in red with indicator light 2.

- If the fast heating was pressed accidentally, it can be reset by short interruption of the **L1** control phase voltage phase (turn on / off the circuit breaker).

- **Preferred fast heating** - at an output of 6 kW / voltage 3 x 230 V (400 V).

This type of heating can be used for example to use surpluses from photovoltaic panels. Closing an external contact on FVE terminals. The heating only lasts for the time when the contact is closed, or until the Te2 thermostat turned off.

In order to store surpluses, we recommend setting **Te1** to the minimum comfortable temperature of hot water and **Te2** to the maximum. If the **TL** button is pressed at that time - the heating will be switched off only after reaching of the set temperature on the thermostat **Te2**.

The operation is indicated in red with indicator light **2**.

The remotely controlled fast heating button, timer and Wi-Fi module<sup>2</sup> can be connected in parallel to TL terminals.

- Control phase L1 must always be energized.
- If the fast heating function is used and it turns off automatically after heating up, the appliance is in a state of basic heating.
- Thermostat Te2 also fulfils the function of an emergency safety fuse. When switched off, the wiring cover must be removed and put into operation again by pressing the lock after checking the state of the circuit.
- The fast heating control circuit is protected by a 500 mA safety fuse.
- **Important warning! When fast heating is used as preferred feature, the outlet temperature of water is higher than 65 °C (according to the Te2 setting) - it is recommended to install a thermostatic mixing valve on the hot water outlet!**

## 2.6 FIRST COMMISSIONING



Before opening the power supply, the tank must be filled with water. The process of first heating must be executed by licensed professional who has to check it. Both the hot water outlet pipe and safety armature parts may be hot.



During the heating up process the water that increases its volume during the heating must visibly drip off the safety valve. When heating is finished, the set temperature and the actual temperature of consumed water should be roughly equal. When the heater is connected to water supply system, power grid and the safety valve tested (accordingly with the manual attached to the valve), the heater can be put in operation.

Before the first putting into service or after a longer shutdown, the appliance has to be rinsed out and flushed yet before the heating is activated. Before the heating starts, the tank must be completely filled with water and the system properly flushed and vented. First heating of the tank has to be watched.

### **Procedure of putting the heater into operation**

1. Check both water and electric installation; for combined heaters, check also the installation to the hot water heating system. Check proper placement of the service and safety thermostat sensors. The sensors must be inserted in the thermowell all the way in; first the service Te2, Te1 thermostats and then the safety thermostat.
2. Open the hot water valve on the mixing faucet.
3. Open the cold water inlet valve to the tank.
4. Once water starts flowing through the hot water mixing faucet valve, the filling of the heater is completed, and the valve can be closed.
5. In case of leakage (of the flange lid), we recommend that the flange lid bolts are fastened.
6. Screw down the electric installation guard.
7. Turn on the power supply.
8. When heating utility water with thermal energy from the hot water heating system, open the heating water inlet and outlet valves, or de-aerate the exchanger.
9. When commencing the operation, flush the heater until the cloudiness in the water is gone.
10. Make sure to fill in properly the warranty certificate.

## 2.7 PUTTING OUT OF SERVICE, EMPTYING



If hot water tank is put out of service for longer period or is not going to be used for some time, we recommend it is disconnected from the power grid. The switch for the supply lead or the fuse cut-outs have to be shut off.

In locations that are permanently exposed to frost, hot water tank shall be emptied prior to the beginning of the cold season, if the appliance is not used for several days, and if the power supply is disconnected.



Drainage of utility water shall be performed after closing the shut-off valve in the cold water supply piping (through the discharge valve for safety valve combination), and with simultaneous opening of all hot water valves of connected fittings. **Hot water may outflow during the drainage!** If there is a risk of frost it has to be considered that not only the water in the hot water heater and in the hot water piping may get frozen but also the water in the entire cold water supply piping. It is therefore advisable to drain all fittings and piping that carry water, up to the part where the house water meter is installed (connection of the house to water main) which is not jeopardized by frost. When the tank is to be used again, it has to be filled with water and one needs to make sure that the **water flowing out at the hot water valves did not contain any bubbles.**

## 2.8 INSPECTION, MAINTENANCE & CARE FOR THE APPLIANCE



During the heating process the water that increases its volume during the heating must visibly drip off the safety valve drain. In full heating (about 75 °C) the volumetric water gain is approx. 3 % of the tank capacity. The function of the safety valve has to be checked regularly. If the safety valve control knob is lifted or turned to the "Control" position, the water must flow out easily, without any obstacles, from the safety valve element to the outfall line. In common operation, such a check needs to be implemented at least once a month, and after each heater shutdown that exceeds 5 days.



**Attention!** In doing so, the cold water supply pipe and the connection fitting of the tank may get heated! If hot water heater is not in operation, or hot water is not going to be withdrawn, no water may drop off the safety valve. If water drips, then the water pressure in the supply piping is either too high (if higher than 4.8 bars, a pressure control valve has to be fitted), or the safety valve is defective. Please call a specialized plumber immediately!



If water contains too many minerals, an expert has to come to remove the scale that forms inside the tank, as well as free sediments. This has to be performed after one or two years of operation. The cleaning is carried out through the hole in the flange - dismantle the flange lid and clean the tank. A new sealing has to be used for re-fitting. Since the inside of the heater has special enamel, which must not get in contact with the scale removing agent - do not work with a lime pump. Remove the lime layer with a timber and suck it off or wipe it off with a clout. After that, the appliance must be rinsed thoroughly, and the heating process is checked the same as during the initial putting in operation. Do not use any abrasive cleaning agents (such as liquid sand, chemicals - acid, alkaline) or dye thinners (such as cellulose thinner, trichlor, and the like) to clean the outer shell of the heater. For cleaning use a wet clout and add a few drops of liquid cleaning agent for household applications. Repeated heating causes lime scale settling on the receptacle walls and mostly on the lid of the flange. Lime scale settling depends on hardness of heated water, its temperature and on the volume of hot water used.

**We recommend checking and cleaning the tank from scale and eventual replacement of the anode rod after two years of operation.** The anode life is theoretically calculated for two years of operation; however, it changes with water hardness and chemical composition in the place of use. Based on such an inspection, the next term of anode rod exchange may be determined. If the anode is only blocked with sediments clean its surface and, if used up, mount a new one. Have a company in charge of service affairs deal with the cleaning and exchanging of the anode. When draining water from the heater, the combination faucet valve for hot water must be open, preventing occurrence of under-pressure in the heater tank which would stop the water from draining.

## 2.9 MOST FREQUENT FUNCTION FAILURES AND THEIR CAUSES

FAILURE SYMPTOM	INDICATOR	SOLUTION
Water is cold	<ul style="list-style-type: none"> <li>Light on</li> </ul>	<ul style="list-style-type: none"> <li>Low temperature set on the thermostat</li> <li>Heating element failure</li> </ul>
Water is cold	<ul style="list-style-type: none"> <li>Light off</li> </ul>	<ul style="list-style-type: none"> <li>No supply voltage!</li> <li>Thermostat failure</li> <li>Safety thermostat shut off probably due to failed operation thermostat</li> </ul>
Water is not warm enough	<ul style="list-style-type: none"> <li>Light on</li> </ul>	<ul style="list-style-type: none"> <li>Failure of one of the coils in the element (2 x 2000 W + 1 x 2000 W)</li> </ul>
Temperature of water is not corresponding with the set value		<ul style="list-style-type: none"> <li>Defective thermostat</li> </ul>
Water is constantly dripping off the safety valve	<ul style="list-style-type: none"> <li>Light off</li> </ul>	<ul style="list-style-type: none"> <li>High input pressure</li> <li>Defective safety valve</li> </ul>

**Table 5**



Do not attempt to repair the failure yourselves. Seek either expert or service help. It does not take much for an expert to remove the defect. When making a repair appointment, report the type and serial number you find on the performance plate of your water heater.



# 3 OPERATION OF THERMOSTAT

## 3.1 OPERATING DEVICES OF THE HEATER

Electric installation cover for OKC 1m<sup>2</sup> 2/6 kW

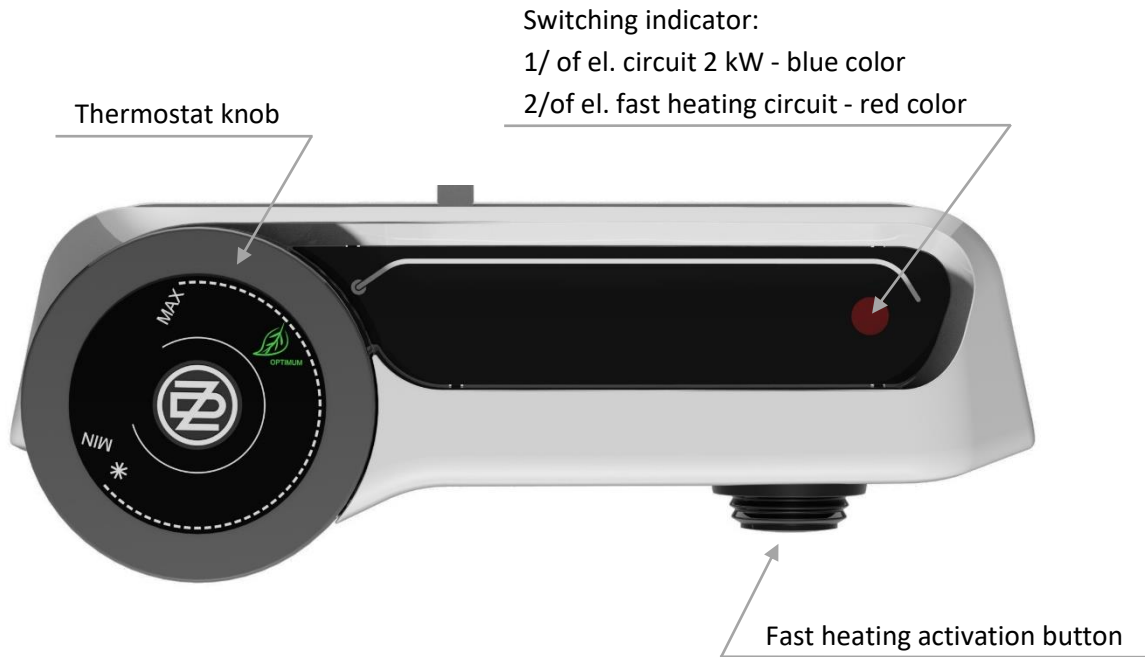


Figure 8



Neither the thermostat, nor any other part of the control panel is a bearing part that could be used for any handling the heater.

### 3.1.1 TEMPERATURE SETTING

Water temperature is set by turning the thermostat knob. The desired symbol is adjusted against the fixed point on the control panel.

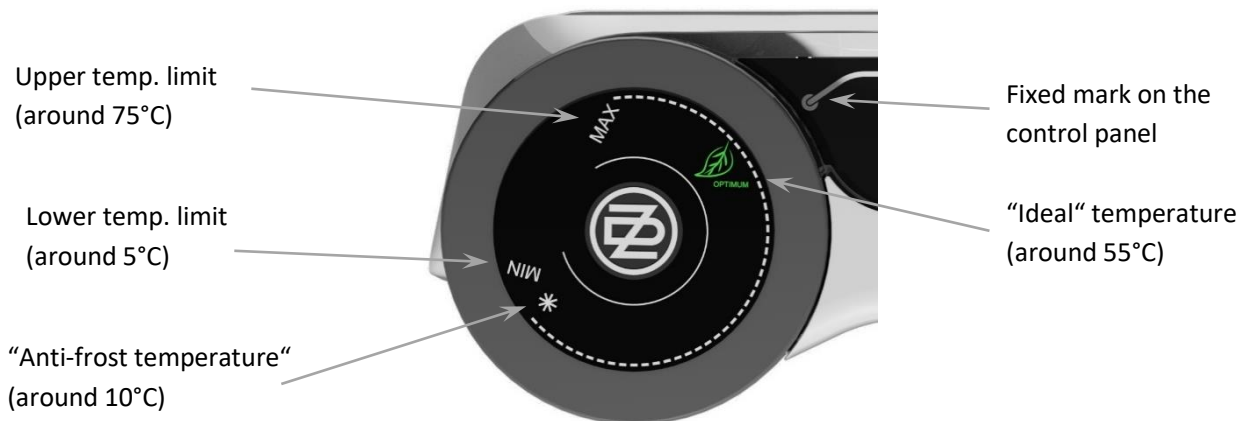


Figure 9



Adjusting the thermostat knob to the left backstop does not mean permanent shutoff of the heating element. When the heater is in use without blocking the daily rate, we do not recommend the temperature to be set above 55 °C. Select the "**OPTIMUM**" symbol as the maximum.

## 4 IMPORTANT NOTICES

### 4.1 INSTALLATION REGULATIONS

- **Without a confirmation of performed electrical installation issued by an authorized company, the warranty certificate shall be void.**
- Check and exchange the Mg anode regularly.
- Please make sure that for the connection of your heater you don't need an approval of the local electricity supplier.
- **No stop valves can be put between the heater and the safety valve.**
- If the overpressure in the water main exceeds 0.48 MPa, a pressure control valve must be mounted before the safety valve.
- All hot water outputs must have a combination faucet.
- Before filling the heater with water for the first time, it is recommended to fasten the flange connection nuts of the tank.
- It is not allowed to handle the thermostat, aside from temperature resetting with a control button.
- All electric installation handling, adjustment and replacement of the regulation elements shall only be performed by an authorized service company.
- **The thermal fuse must not be turned off!** In case of thermostat defect, the thermal fuse interrupts electric power input to the heating element if the water temperature in the heater exceeds 90 °C.
- As an exception, the thermal fuse may also switch off due to water overheating caused by overheating the hot water heating system boiler.
- **We recommend you operate the heater with one type of energy.**
- If you don't use the heater (hot water tank) for longer than 24 hours, or if the facility with the heater is unattended, close the cold water inlet to the heater.
- The tank may only be used in accordance with the conditions specified on the nameplate and with the instructions contained in this manual.



**Both the electric and water installation must follow and meet the requirements and regulations relevant in the country of use!**

### 4.2 TRANSPORT & STORAGE INSTRUCTIONS

The device shall be transported and stored in dry place and protected from weather effects with temperature range from -15 °C to +50 °C. During loading and unloading the instructions stated on the packaging shall be observed.



Due to the transport and thermal dilatations, excessive enamel may fall off on the bottom of the receptacle in heaters with **exchanger**. This occurrence is common and has no effects on the heater's service life and quality. The decisive enamel layer which remains in the vessel. DZD has many years of experience with this occurrence, and it is not a reason for complaints.

## 4.3 DISPOSAL OF PACKAGING MATERIAL AND NON-FUNCTIONING PRODUCT

The packaging that the product was delivered in has been paid for in form of a service fee for the provision of the return and recovery. The service fee was paid pursuant to Act No 477/2001 Coll., as amended, at EKO-KOM a.s. The client number of the company is F06020274. Take the water heater packaging to a waste disposal place determined by the municipality. Disassemble the discarded and unserviceable product after the operation terminates, and transport it to a waste recycling center (collecting yard) or contact the manufacturer.



## 5 PRODUCT ACCESSORIES

The product is supplied with a safety valve, 2 - 4 fastening screws M 12x30, 2-4 washers  $\emptyset$  13, hinges (brackets), a thermometer, rectifying (spacer) screw M8, fan-shaped washer  $\emptyset$  8.4 - 2 pieces, nuts M8. The above parts are packed and placed in the packaging in the top part of the heater.

**It is in your own interest to check the completeness of the accessories.**

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