# OPERATING AND INSTALLATION MANUAL

## TANK-TYPE WATER HEATERS FOR HORIZONTAL MOUNTING



OKCV 125 OKCV 160 OKCV 200 OKCEV 100 OKCEV 125 OKCEV 160 OKCEV 200

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Tradice od roku 1956

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

#### Dear customer,

The Works Cooperative of Dražice – Machine Plant, Ltd., 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.



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**

The heater is designed for accumulation heating of service water using electricity or thermal energy via an exchanger (for the combined design only). Water is heated by an electric element (or a heat exchanger) in an enamelled thermally insulated accumulator at the time defined by the power supplier. 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 74°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. 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 withdrawal at any place from the heater (Figure 9, Figure 10)

#### 1.1.1 OPERATING ACTIVITY

#### a) Water heating by electric energy

After the heater is connected to electric network, the heating element starts heating water. The element is turned on and off by a thermostat. After reaching the temperature set, the thermostat switches off the electric circuit and discontinues water heating. The control light signals if the element is in operation (light is on) or if it is off (the light goes out). In case of longer operation without using the heated volume, the thermostat has to be set to position 5°C to 8°C (set the "snowflake" symbol on the thermostat selector) to avoid its freezing, or electricity supply to the heater has to be switched off. In combined versions, the stop valve on the inlet to the exchanger has to be closed at the inlet to the heat exchanger while heating using el. energy, which prevents heating water in the hot water heating system.

#### b) Service water heating via thermal energy through heat exchanger

Closing values of the heat exchanger must be opened which ensures heating water flow from the hot water heating system. Along with a closing value at the inlet to the heat exchanger, it is recommended to install an air removal value, in order to bleed the heat exchanger as needed, in particular before the beginning of the heating season. The time it takes to heat up using the heat exchanger depends on the temperature and flow of water in the hot water heating system.

## **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



Hot utility water reservoir is insulated by means of top-quality polyurethane foam with zero CFCs content. Adjust 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  $65^{\circ}$ 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.

HEATER TYPE	NOMINAL CAPACITY (L)	TIME OF CONTENT HEATING (HOURS)	ELECTRICITY CONSUMPTION FOR HEATING THE VOLUME FROM 15°C TO 65°C (kWh)	
<b>OKCEV 100</b>	100	2.6	6	
OKCV 125; OKCEV 125	125	3.3	7.5	
OKCV 160; OKCEV 160	152	4	9.5	
OKCV 200; OKCEV 200	200	5.3	12	

#### Table 1

### **1.3 DESIGN AND GENERAL HEATER DIMENSIONS**

The heater tank is made of a steel plate and tested by 0.9 MPa overpressure. The heat exchanger is tested with a pressure of 1.5 MPa. The inside of the receptacle is enamelled. 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 water reservoir is insulated by means of polyurethane 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. Heater types OKCV 125 - 200 are produced in the right and left design.

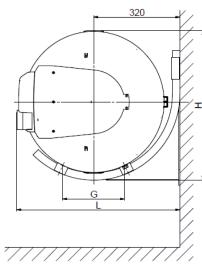
Dimensions of the heaters – Figure 1, Figure 2, Figure 3, Figure 4, Figure 5 and Table 3, Table 4, Table 5

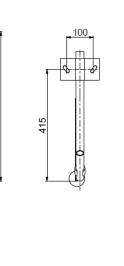
		-	OKCV 125	OKCV 160	OKCV 200
ТҮРЕ		<b>OKCEV 100</b>	OKCEV 125	<b>OKCEV 160</b>	<b>OKCEV 200</b>
VOLUME	l	100	125	152	200
MAX OPERATING OVERPRESSURE IN THE TANK	MPa		0.6	i	
MAX OPERATING OVERPRESSURE IN THE EXCHANGER*	MPa	-		0.4	
ELECTRICAL CONNECTION	V		1 PE-N ~ 23	0 V/50Hz	
INPUT	W		220	0	
EL. PROTECTION			IP 4	2	
MAX WARM WATER TEMPERATURE	°C		90		
RECOMMENDED WARM WATER TEMPERATURE	°C		60		
HEIGHT OF THE HEATER	mm	902	1067	1255	1290
DIAMETER OF THE HEATER	mm	524	524	524	584
MAX WEIGHT OF THE HEATER WITHOUT WATER	kg	42	63/48	69/54	85/71
TIME OF EL. HEATING FROM 10°C TO 60°C*	hrs	2,6	3,3	4	5,3
LOAD PROFILE		М	L	L	XL
DAILY ELECTRICITY CONSUMPTION [kWh]	kWh	6.54	11.98	12.43	19.88
MIXED WATER V40	L	164.98	195.75	244.59	301.93
ТҮРЕ		-	OKCV 125	<b>OKCV 160</b>	OKCV 200
EXCHANGER HEAT TRANSFER SURFACE	m²	-	0.7	0.7	0.75
RATED THERMAL OUTPUT AT HEATING WATER TEMPERATURE OF 80°C AND FLOW 720 I/h	W	-	17000	17000	18000
TIME OF HEATING BY EXCHANGER FROM 10°C TO 60°C	min	-	26	35	43
RATED THERMAL OUTPUT AT HEATING WATER TEMPERATURE OF 80°C AND FLOW 310 l/h	W	-	10000	10000	11000
TIME OF HEATING BY EXCHANGER FROM 10°C TO 60°C	min	-	43	53	72

\* OKCEV series heaters do not include the heat exchanger.

#### Table 2

## **OKCEV 100, OKCEV 125, OKCEV 160, OKCEV 200**





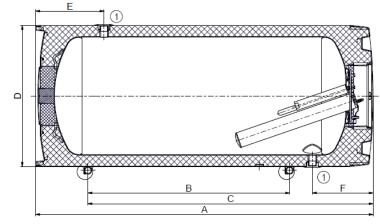
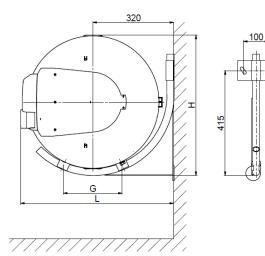


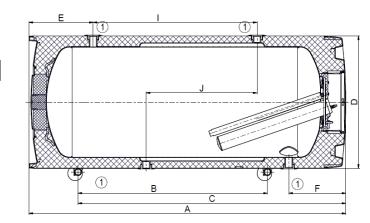
Figure 1

ТҮР	<b>OKCEV 100</b>	OKCEV 125	<b>OKCEV 160</b>	<b>OKCEV 200</b>
Α	902	1067	1255	1290
В	435	600	750	600
С	763	928	1060	936
D	524	524	524	584
E	204	204	254	258
F	226	226	226	246
G	230	230	230	250
Н	556	556	556	618
L	559	559	559	610
1	neck ¾" inner			

Table 3

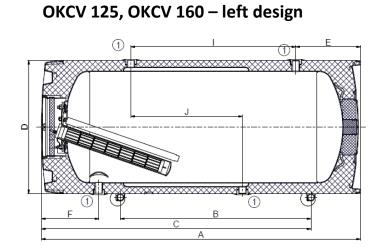
### OKCV 125, OKCV 160 – right design

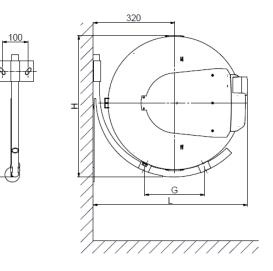






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ТҮР	<b>OKCV 125</b>	<b>OKCV 160</b>
Α	1067	1255
В	600	750
С	928	1060
D	524	524
E	204	254
F	226	226
G	230	230
Н	556	556
I	513	649
J	439	439
L	559	559
1	neck ¾"	inner

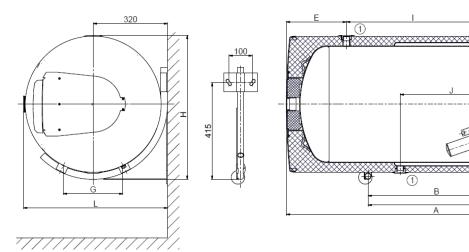
Figure 3

#### Table 4

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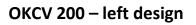
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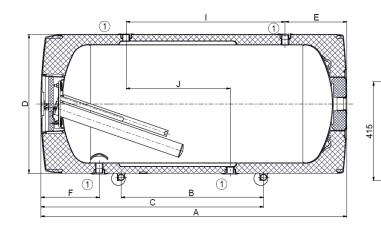
### OKCV 200 – right design

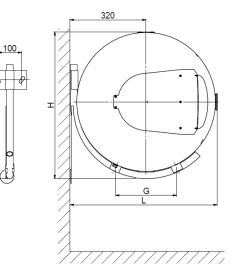




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ТҮР	OKCV 200
Α	1290
В	600
С	936
D	584
E	258
F	246
G	250
Н	618
I	670
J	439
L	610
1	neck ¾" inner

#### Table 5

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## **2 OPERATION AND FITTING INSTRUCTIONS**

## 2.1 OPERATING CONDITIONS



The tank shall only be used in accordance with the conditions specified on the power plate and in instructions for electric wiring. Besides legally acknowledged national regulations and standards, also conditions for connection defined in local electric and water works have to be adhered to, as well as the installation and operation manual. The room, in which the appliance will be operated, must be frost-free. 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 emphasise that the heater must not be connected to power supply if work involving flammable liquids (petrol, spot remover) or gases, etc., is performed nearby.



If water is strongly calcareous we recommend that any of the common decalcifying devices was installed with the appliance, or the thermostat to be set to minimum operation temperature of 60°C. 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 mounting, check the loading capacity of the wall and, depending on the type of masonry, choose a suitable anchorage material, or reinforce the wall, if needed. The water heater shall only be mounted in horizontal position so that the electrical installation cover of the heater was placed at least 600 mm from the opposite side. In combined and electric heaters, elbows have to be attached to the hot service water inlet and outlet prior to their suspension in brackets right under the ceiling and, by turning these elbows, mounting left has to be determined - either from the right, or from the left. With regard to various types of carrying masonry and broad assortment of special anchorage material available at the market, we do not provide heaters with the anchoring material. The anchorage system has to be selected individually, depending on the conditions. We recommend an authorised company perform mounting on the wall and anchorage, or discuss the anchorage with a professional.



If the hot water heater is mounted in a **tight, small 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

## 2.3 PLUMBING FIXTURE



Connection of heaters to plumbing fixtures is illustrated in Figure 6, Figure 7. For potential disconnection of the heater, the 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. We recommend that the hot water distribution from the heater was as short as possible to minimise heat losses.



Each hot service water pressure heater must have a safety valve with a membrane spring. Nominal clearance of safety valves is defined by standard. Heaters are not equipped with a safety valve. The safety valve must be easily accessible, as close to the heater as possible. The inlet pipes must have at least the same clearance as the safety valve. Safety valve is placed high enough to secure dripping water drain by gravity. We recommend mounting the safety valve onto a branch pipe. This allows easier exchange without having to drain the water from the heater. Safety valves with fixed pressure settings from the manufacturer are used for the assembly. Starting pressure of a safety valve must be identical to the maximum allowed heater pressure, and at least 20 % higher than the maximum pressure in the water main (Table 6). If the water main pressure exceeds such value, a reduction valve must be added to the system. No stop valves can be put between the heater and the safety valve. During assembly, follow the guide provided by the safety equipment manufacturer. The cold water inlet of each individually closable heater must be fitted with a seal, test tap or plug to check the non-return valve, as well as a non-return valve and safety valve. Heaters with a volume of more than 200 litres must also be fitted with a pressure gauge.



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. When draining the heater, use the recommended drain valve. First, close the water supply into the heater. For proper safety valve operation, a backflow valve shall be mounted on the inlet pipes, preventing spontaneous heater draining and hot water penetrating back into the water main.

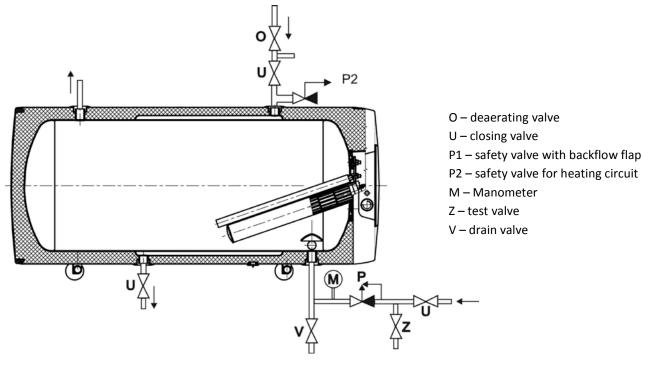
Required pressures - Table 6

SAFETY VALVE STARTING PRESSURE (MPa)	ACCEPTABLE OPERATING OVER- PRESSURE OF THE WATER HEATER (MPa)	MAX COLD WATER PRESSURE IN PIPING (MPa)
0.6	0.6	up to 0.48
0.7	0.7	up to 0.56
1	1	up to 0.8

Table 6

**Heaters must be provided with a discharge valve** mounted on the cold service water inlet to the heater for potential disassembly or repair.

#### OKCV 125, OKCV 160, OKCV 200



**Figure 6** 

#### **OKCEV 100, OKCEV 125, OKCEV 160, OKCEV 200**

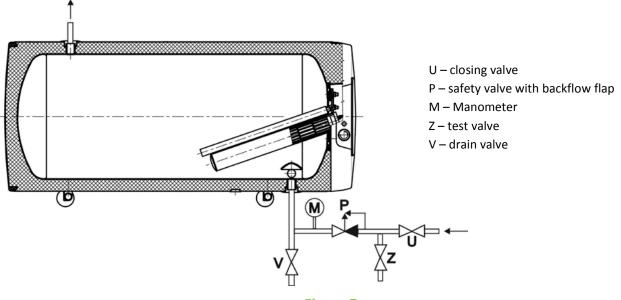


Figure 7

## 2.4 ELECTRICAL INSTALLATION

#### 2.4.1 GENERAL INFORMATION FOR ELECTRICAL INSTALLATION



- The electric wiring scheme is attached to the water heater on the side of the electric installation guard (Figure 8).
- Connection, repairs, and wiring inspections may only be implemented by a company (person) authorised to such activity.
- Expert connection must be confirmed on the warranty certificate.
- The heater is connected to the 230 V/50 Hz electrical network using a fixed moving conductor with a switch that turns off all network poles and the circuit breaker (protector).
- The degree of protection of electric parts of the heater is IP 42.

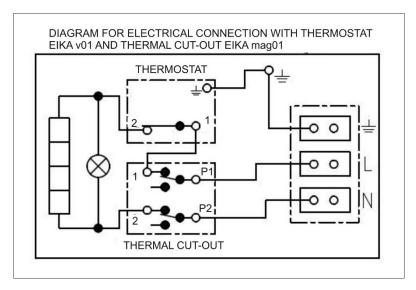


Figure 8

### 2.5 CONNECTION OF INDIRECT HEATER TO HOT WATER SYSTEM



It is recommended to install stop valves on the heating water inlet and outlet (for possible dismantling of the heater). The valves have to be as close to the heater as possible to avoid higher thermal losses. (Figure 6, Figure 7, Figure 9 and Figure 10).

#### TANK TYPE COMBINED WATER HEATER; HOT WATER DISTRIBUTION

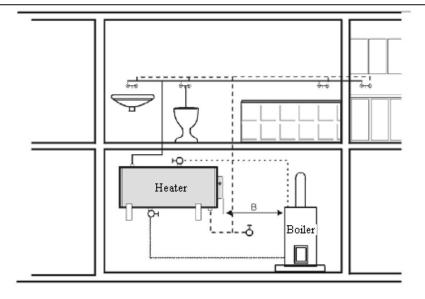
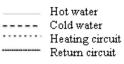


Figure 9



#### TANK TYPE ELECTRIC WATER HEATER; HOT WATER DISTRIBUTION

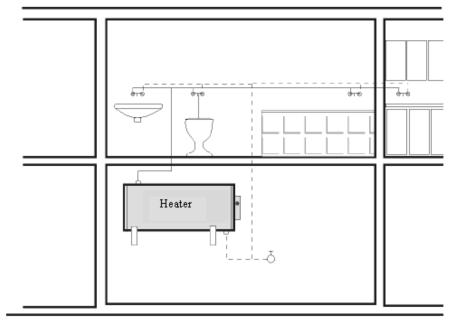


Figure 10

Hot water Cold water

## 2.6 FIRST COMMISSIONING



After connecting the heater to the water supply, the hot water heating system, the electric network, and after testing its safety valve (based on the valve manual attached), the heater may be put into operation. 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 process the pressurised connection water that increases its volume due to heating must drip off the safety valve. In non-pressurised connection water drips off the overflow combination faucet. When heating is finished, the set temperature and the actual temperature of consumed water must be more-or-less the same. After connecting the heater to the water main and electrical power system, and after checking the safety valve (following the instructions attached to the valve), the heater can be put into operation.

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

- 1. Check both water and electric installation; for combined heaters, check the installation to a hot water heating system. Check proper placement of operating and safety thermostat sensors. The sensors must be inserted all the way in; first the operating and then the safety thermostat.
- 2. Open the hot water valve on the combination faucet.
- 3. Open the cold water inlet valve to the heater.
- 4. As soon as the water starts running through the hot water valve, the heater is filled and the valve can be closed.
- 5. In case of leakage (of flange lid), we recommend that the flange lid bolts are fastened.
- 6. Screw down the electric installation guard.
- 7. When hot sanitary water is heated by electric energy, switch on the power supply (the valve on the heating water inlet to the heating insert must be closed in combined heaters).
- 8. When sanitary water is heated with electric energy from the hot water heating system, turn off electricity an open the valves on the heating water inlet and outlet, possibly de-aerate the exchanger.
- 9. When commencing 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, DISCHARGE



If the hot water heater is put out of service for a longer time, or if it is not going to be used it has to be drained and disconnected from the electric supply network on all poles. The switch for the supply lead or the fuse cut-outs have to be shut off.

At places with permanent risk of frost the hot water heater must be drained before the cold season starts if the appliance remains out of service 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 jeopardised 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 drip off the safety valve outlet (in non-pressurised connection this water drips off the combination faucet valve). In full heating (about 65°C) the volumetric water gain is approx. 3% of the tank capacity. The function of the safety valve has to be checked regularly (based on the information contained in the attached safety valve manual). In common operation, such a check needs to be implemented at least once a month, and after each heater shutdown that exceeds 5 days.

**Caution**! In doing so, the cold water supply pipe and the connection fitting of the tank may get heated! If the hot water heater does not work, or if hot water is not withdrawn, no water shall drip off the safety valve. If water drips, then the pressure in the supply piping is either too high, or the safety valve is defective. Please call a specialised 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. 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. Have a company in charge of service affairs deal with the cleaning and exchanging of the anode.

When discharging water from the heater, the mixing valve battery for hot water must be open in order to avoid creating underpressure that would prevent water discharge. Cleaning is carried out through the hole in the flange by: draining the boiler, dismantling the flange lid and cleaning the tank. A new sealing has to be used for re-fitting. Since the inside of the heater has special enamel, the surface of which must not get in contact with a 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 or dye thinners to clean the outer shell of the heater (such as cellulose thinner, trichlor, and the like). For cleaning use a wet clout and add a few drops of liquid cleaning agent for household applications.

## 2.9 MOST FREQUENT FUNCTION FAILURES AND THEIR CAUSES

#### Other possible defects – Table 7

FAILURE SYMPTOM	INDICATOR	SOLUTION
Water is cold	• Light on	<ul> <li>The temperature set on the thermostat is too low</li> <li>Heating element failure</li> </ul>
Water is cold	• Light off	<ul> <li>no supply cable</li> <li>Thermostat failure</li> <li>Safety thermostat shut off probably due to failed operation thermostat</li> </ul>
Water is not warm enough	• Light on	<ul> <li>failure of one of the coils in the element (contains 2)</li> </ul>
Temperature of water is not corresponding with the set value	<ul> <li>Light on</li> </ul>	Defective thermostat
Water is constantly dripping off the safety valve	Light off	<ul><li>high input pressure</li><li>defective safety valve</li></ul>

#### Table 7



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 SERVICING

#### 3.1.1 OPERATING DEVICES OF THE HEATER

#### Electrical installation cover for heaters OKCEV 200, OKCV 200

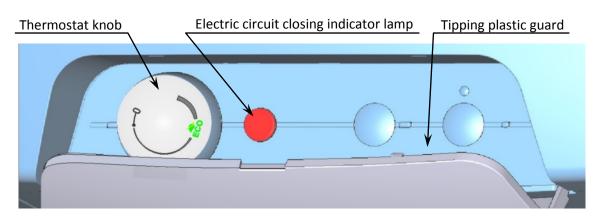
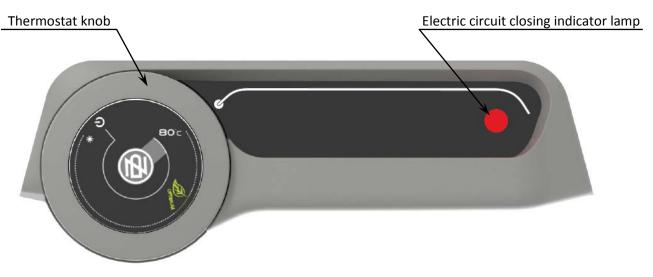


Figure 11

#### Electrical installation covers for heaters OKCEV 100, OKCEV 125, OKCEV 160, OKCV 125, OKCV 160



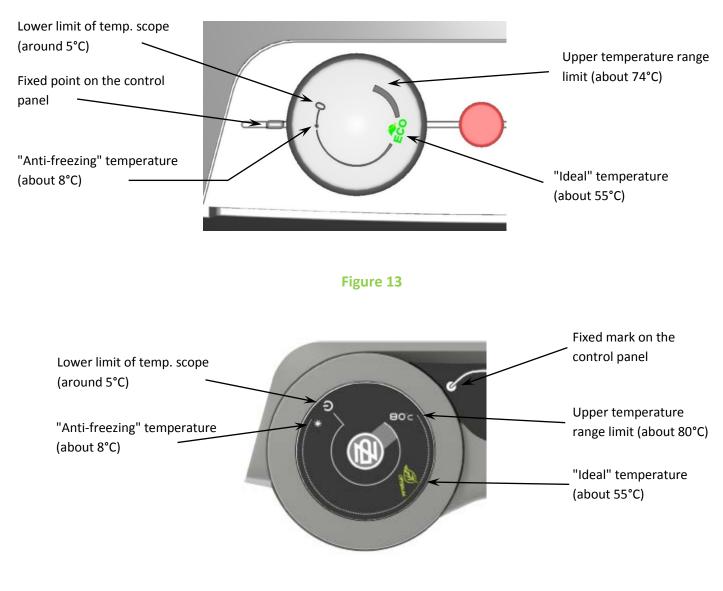




Thermostat and no other part of the control panel is not a bearing part which can be used for any handling with the heater.

#### 3.1.2 TEMPERATURE SETTING

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







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 **"ECO"** symbol as the maximum.

## **4 IMPORTANT NOTICES**

## 4.1 INSTALLATION REGULATIONS

- Without a confirmation of performed electrical installation issued by an authorised company, the warranty certificate shall be void.
- Check and exchange the Mg anode regularly.
- You have to apply for approval of a local power supplier to connect the heater.
- 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 authorised 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 (in case of a combined heater).
- 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 heater is unattended, close the cold water inlet to the heater.
- The heater (hot water tank) shall be used exclusively in accordance with the conditions specified on the performance plate and in the instructions for electric wiring.



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

## 4.2 ACCESSORIES AND SPARE PARTS

The product is supplied with a safety valve, elements to be used for suspension of the heater on the wall, i.e. a bracket (bended stiffened tubes). The above parts are packed and placed in the packaging in the top part of the heater. Also additional fastening elements – hinges – can be purchased with the heater. It is a set of two hinges and bolts to fasten them to the heater, and an earthing bolt. The catalogue number of this set is 102000702.

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

## **4.3 TRANSPORT & STORAGE INSTRUCTIONS**

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



Due to the transport and thermal dilating, excessive enamel may fall of the heaters with exchangers on the tank bottom. 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.

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

A service fee for providing return and recovery of packaging material has been paid for the packaging in which the product was delivered. 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 boiler packages to a waste disposal place determined by the town. When the operation terminates, disassemble and transport the discarded and unserviceable heater to a waste recycling centre (collecting yard), or contact the manufacturer.



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