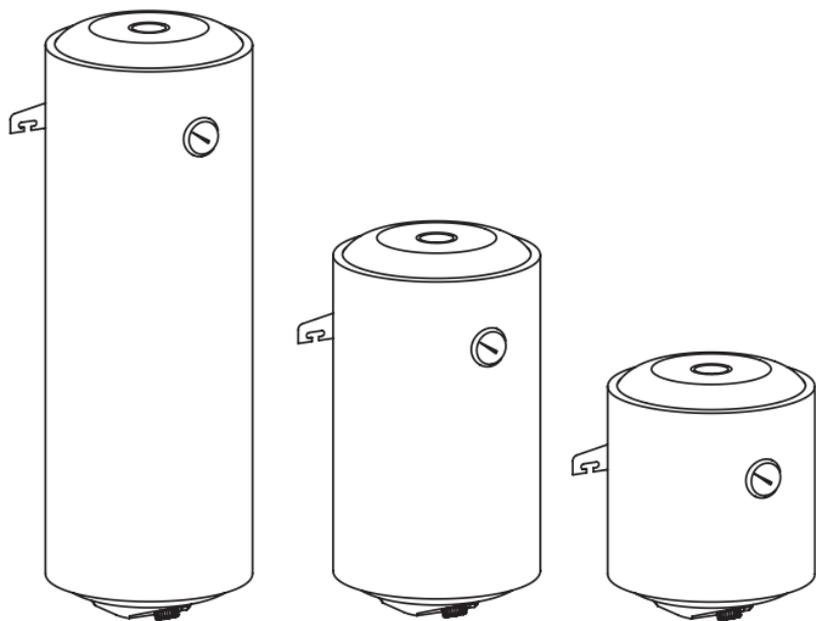


Storage Water Heater



OSV.ECO Slim



QR-Code application at PLAY Store

<https://play.google.com/store/apps/details?id=pl.kospel.SLIM.EKO>



QR-Code to Kospel S.A. website

<http://kospel.pl/pl/produkty/ogrzewacze-pojemnosciowe/osv-slim.html>



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

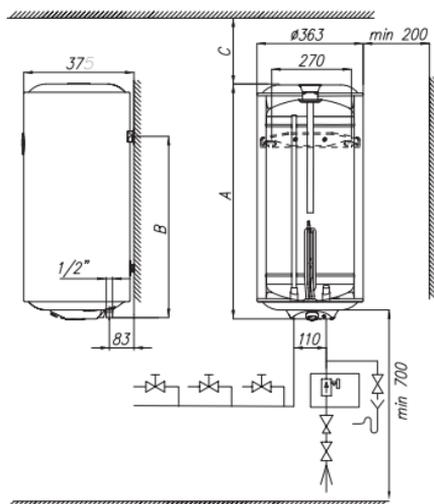


Used product can't be treated as general communal waste. Disassembled appliance has to be delivered to the collection point of electrical and electronic equipment for recycling. Appropriate utilisation of used product prevents potential negative environmental influences that may occur as a result of inappropriate handling of waste. In order to get more detailed information about recycling this product you should contact the local government unit, waste management service or the shop where this product has been purchased.

Safety instructions

1. Read and strictly follow the installation and operating instructions to ensure a long life and reliable heater operation.
2. Heater installation and all electrical and hydraulic work must be performed by a qualified professional installer.
3. **The appliance must be protected with a safety valve (of 0.6 MPa opening pressure) against too high pressure.**
4. The heater can only be used when in perfect technical condition and correctly installed.
5. **Do not connect the heater to the electric mains before the inner tank is completely filled up with water.**
6. The heater should always be vented before initial start-up. Vent the heater each time after water has been emptied from the heater or pipes (e.g. when water supply system has been repaired or maintained). See „Start up” section.
7. The tank is equipped with a magnesium anode - an additional protection against corrosion. The anode is an operating part. Therefore, it is exposed to wear. **The condition of the magnesium anode should be controlled every 12 months, however, it is due to be replaced with a new one every 18 months.**
8. Heater's plastic cover must not be taken off while power is on.
9. Do not use the heater if you suspect that the safety valve may be faulty.
10. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a qualified person.
11. The heater must be connected to a plug-in socket with a safety pin.
12. Do not use an extension cord to connect heater to a socket.
13. Appropriate precaution must be taken using hot water. The temperature of water over 40°C may cause hot feeling which can be dangerous for children.
14. Heater fittings (pipes and taps) may also cause hot feeling.
15. Heater must be equipped with a safety valve provided by the manufacturer.
16. Heater must be equipped with a pressure reducing valve if the water pressure in the system exceeds 0,6MPa. The pressure reducing valve must be fitted between the cold water supply pipe and the safety valve.

Installation/ Assembly



- The heater is to be mounted in a vertical position.
- The C distance over the heater must be observed in order to perform maintenance and to exchange the magnesium anode without taking the heater off the wall.
- After the appliance has been fixed on the wall, it has to be connected to the water mains. After filling the appliance entirely with water and venting (see start-up section), connect the heater to the electric mains. Warranty is void, if the installation is not carried out in accordance with the instructions.
- In order to situate the appliance in a correct place, you must make sure that an emergency leak from the tank will not cause flooding of the room.

Hydraulic connection

The heater is a pressure appliance and it is adjusted to the mains where pressure should not exceed 0,6MPa. If the pressure is higher than 0,6MPa, a pressure reducing valve is to be installed before the safety valve. A small leak from the safety valve through the outlet pipe may occur. It is a normal operating state of the appliance. The outlet of the pipe has to remain opened. Do not clog it, as a clogged outlet may cause a breakdown of the heater. The safety valve and the outlet pipe must not be exposed to frost.

Please follow the connection instructions below.

- To the inlet fitting of cold water install:
 - T – connection,
 - safety valve, making sure that the direction of the water flow in accordance with the arrow on the casing of the safety valve,
 - drain valve according to the schematic diagram.

A draining valve allows tank emptying. **There must never be a cut-off valve between the safety valve and the tank.**

Electrical connection

The appliance is adjusted to the alternating voltage of 230V~. A power lead with a plug should be connected to a plug-in socket with a safety pin only. Electrical system should meet actual legal standards and extra local standards, if required.

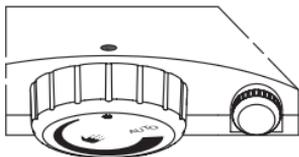
It is essential to fill the appliance entirely with water before connecting it to the electric mains.

Start-up

Before an initial start-up please check visually the connections, make sure that the assembly of the appliance has been carried out in accordance with the schematic diagrams and continue as follows:

- Open the valve on cold water inlet.
- Turn on one of the hot water taps (water outflow without air bubbles indicates that the water heater has been entirely filled with water).
- Turn off hot water tap.
- Check the connections for leaks.
- **Check, if the safety valve works properly:**
 - turn the lever or the turning knob of the valve to open the water outflow from the outlet pipe. If there is no water outflow, the valve is faulty and the water heater cannot be operated.
- Connect the water heater to the electrical mains.

Control



You can set the required temperature by using the temperature adjusting knob on the plastic casing of the water heater or a smartphone.

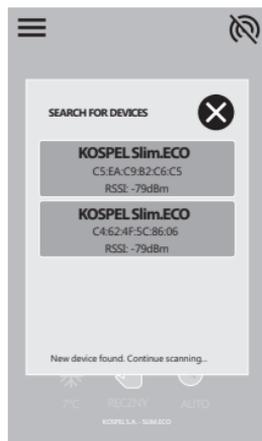
The temperature adjusting knob works in three dimensions. Turning it extremely to the left switches off the water heater (the water heater keeps antifreeze temperature), the indicator lamp is off.

Turning the knob to the right turns on the red inspection light, the heater is working in manual operation mode in the temperature range of 20 - 77°C. Turning the knob extremely to the right causes the inspection light change its color to green and the water heater starts operating in AUTO mode. AUTO mode allows to program individual starting time and water temperature using a smartphone. The water heater is factory set to ECO program that optimizes the heater to achieve the best possible results concerning energy efficiency class in accordance with the terms of the ErP Directive. Individual (customized to your needs) programming of switching time and water temperature can reduce or increase energy consumption.

Smartphone cooperation

Login to the device (pairing the device with the phone)

Programming the heater using a smartphone is possible once you have installed an appropriate application on your phone. For addresses and codes for downloading applications please refer to page 2 of this manual. When you start the application, it searches for available devices.



When the phone finds several heaters it is necessary to select an appropriate one. Each device has got its individual number which you can find in this operating manual and on the heater's bottom cover.

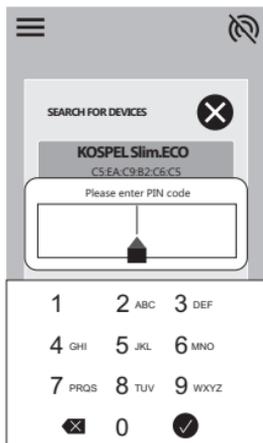
KOSPEL Slim.ECO

C4:62:4F:5C:86:06

RSSI: -79dBm

Warning!

Download the app from Play Store or KOSPEL S.A. website. For QR codes and website addresses go to page 2 of this manual or to the heater's cover.



Select the heater from the list. Enter PIN code. Each device has its own individual PIN code, which can be found in the device's operating manual and on the heater's bottom cover.

In case the communication mode has not been switched on, information that it is necessary to switch it on will appear on the screen. When the PIN code has been entered correctly the device status screen will appear. Pulsating indicator light on the heater's cover means that the heater has been successfully connected to the smartphone.

Home page

Information on the current parameters and mode is displayed on the screen. The current temperature and the current setting (program implemented) is displayed in the middle part of the heater's screen.

System icons and working mode indicators are in the bottom and top part of the display.



system information	
☰	application information
📶	signal strength
📶 (no signal)	no signal
⚠️	signaling failure
work mode	
❄️	heater off (antifreeze mode)
👤	manual mode
🕒	AUTO mode

Changing the operating mode and manual setting (deactivating the knob on the heater).

Selecting the operating mode and setting the temperature is achieved by appropriate setting of the knob on the bottom cover of the heater. It is also possible to change work mode from the smartphone level using a corresponding icon , , . Similarly, in manual mode turning the knob to the desired temperature changes setting mode. In both cases the heater's knob deactivates. Changing the knob on the heater restores its function and operating mode (manual temperature setting) according to its position.

Weekly program

In the AUTO mode, the heating program is executed according to the schedule defined by the user.

To go to daily program selection screen press a given day of the week.

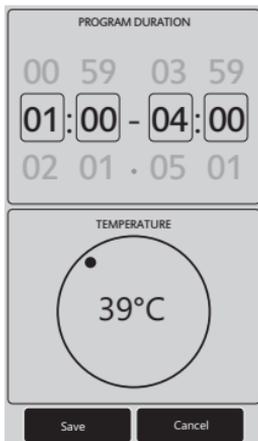


User can choose between nine editable programs and one non-editable program (ECO). Selected program will be executed for an indicated day.

Daily programs

User can choose between 9 individual programs (editable) and one permanent program (ECO).

Press or to choose a program to edit/ preview. Press to remove given setting from daily program. To add settings to a given daily program press .



Once the time and temperature have been set, press the 'Save' button and the screen will close automatically. If there is an overlap with previously set time, numbers defining time are red. Please enter proper time and make sure it does not collide with another setting. When you press the 'Cancel' button the screen will close with no settings implemented. Daily program cannot include more than 10 time settings.

Warning: if time setting has not been defined, then the control system sets at 7°C (antifreeze temperature).



It is possible to give programs 1 to 9 individual names. To do this press program number and enter new name (max. 14 signs).

Recommendations

The operation of the water heater is safe and faultless if you follow the safety instructions below:

- Check the function of the safety valve every two weeks (see „Start-up“- section).
- A small leak from the safety valve through the outlet pipe may occur, it is a normal operating state of the appliance. The outlet of the pipe has to remain opened. Do not clog it, as a clogged outlet may cause a breakdown of the water heater.
- Periodically remove the deposits from the tank. The frequency depends on the water hardness in the region.
- Check the magnesium anode once a year. To do it properly, take off a plug from the top cover of the heater and a (polystyrene) cork that is situated under the plug. Shut off the cold water valve and open the hot water tap then unscrew anode with a 27mm spanner.
- Every 18 months replace the magnesium anode. Provide anode's type, capacity, and year of assembly when ordering.
- In order to follow hygiene guidelines the water should be periodically heated up to the maximum temperature.
- Every operational anomaly has to be consulted with a professional service.
- If in the room where the water heater is installed, the temperature drops below 0°C, and the water heater is switched off the tank of the appliance has to be emptied.

All the above operations are not covered by the warranty service, the work must be performed by the user.

Failures

No.	Fault	Cause	Repair
1.	Water heater does not heat water. Indicator light is off.	Faulty power mains. Faulty thermostat. A thermal cut-out problem.	Check the fuse. Replace the thermostat (service). Replace or press the thermal cut-out (service).
2.	Water heater does not heat water. Indicator light is on.	Faulty heating element.	Replace the faulty element (service).
3.	Replace the faulty element (service).	Faulty indicator light.	Replace the light (service).
4.	Water heater does not heat water. Indicator light (orange) is on.	Faulty temperature sensor.	Replace the faulty element (service).

Technical data

Electric water heater OSV.ECO Slim								
Capacity	l	20	30	40	50	60	80	
Rated pressure	MPa	0,6						
Temperature range	°C	7 - 77						
Rated power	W	2000						
Rated voltage		220 - 240V~						
Heating time 20°-60°C	h	0,45	0,67	0,89	1,14	1,43	1,86	
Dimensions	A	mm	427	519	689	809	927	1167
	B		246	321	491	611	731	971
	C		200			400		
Magnesium anode	mm	148	208			400		
Weight (without water)	kg	13	15	20	22	25	30	

