



Installation and operating instructions

Automatic stainless steel sink with electric power 12 V, 50 Hz, Version for the cold or heat-treated water (.1), Version for connecting the cold and warm water (.2 or .TV)

BASIC TECHNICAL SPECIFICATIONS

Sensor range:	Automatically self-adjusting
Supply voltage:	12V, 50Hz
Power input:	6 (10) W
Adjustable after-flow period:	0 – 4 s (adjusted to 1 s by the manufacturer)
Water pressure:	0.1 MPa to 1.0 MPa
Recommended power supply device:	ZAC 1/20 ZAC 1/50

Description of function of the automatic sink

- The sink is made of stainless steel. It can be mounted on the wall or anchored to the floor, according to the sink type.
- The sink is equipped with a contact-free tap. When the hands are put in the sink area (zone of sensing) the control electronics is activated which is indicated by a flashing pilot light on the sensor. The electromagnetic valve opens and the water is supplied. Once the hands are put away from the sink, the pilot light turns off and the electromagnetic valve is closed. The water flow stops after a preset time delay (the after-flow period).
- The water flow can be adjusted using a ball valve (.TV version) or using the angle valves (.1 or .2 versions). The temperature is controlled using a thermostatic valve (.TV version) or using the angle valves (.1 or .2 versions). The thermostatic valve is equipped with a safety lock at the temperature of 38 °C. To adjust a higher temperature the safety lock must be released. If the sensor detects dimmed light for a period longer than 30 seconds the water supply is automatically interrupted.
- The sensor's range is adjusted automatically once power supply is on.

Installation of the automatic sink

Pre-installation preparedness

1. The water distribution Tr 1/2" is made ready according to the sink type.
2. The pipe supplying a sink or a group of sinks must be equipped with a **filter** that would remove mechanical impurities from water.
3. A down-pipe must be prepared for a pipe diameter d = 40 (50).
4. A power supply cable CYKY 2Ax1.5 must be prepared to supply the voltage 12 V, 50 Hz from the ZAC power supply.

Installation of the automatic sink

1. Mount the upper mounting rail (if equipped) or fix the sink to the wall using the screws and wall dowels. The pedestal sink must be anchored to the floor.
2. Screw the angle valves with filters to the water supply pipes (female thread). The valve outlets must be rotated so that the inlet hoses are not folded.
3. Connect the sink using the flexible hoses. With the .TV version the red-marked hose must be connected to the warm water supply and the blue-marked hose must be connected to the cold water supply. **In case of interchanged connection the thermostatic valve will not work properly.**



4. Connect the drain pipe to the drain piping.
5. Connect the supply voltage cable (12 V, 50 Hz) of the electronics module.
6. Switch on the ZAC power supply unit. After switching on the pilot light flashes 5 times and then the sensitivity is automatically adjusted. This is indicated by quick flashing of the pilot light for a period of max. 10 seconds.

When adjusting, there must be free space in front of the sensor – the sensing element must not be shielded!

7. The after-flow period (water flow period after taking hands out of the zone of sensing) is set to 1 second at the factory. If required, it is possible to change this value using a remote control panel that is not part of the delivery and should be ordered separately. Adjustment of the after-flow period may be carried out only within 20 minutes after switching on the power supply! When the after-flow period adjustment is finished the sink battery is re-started and the "switch-on" sequence will be running, see Step 6.
8. Adjust the amount and temperature of the supplied water.
9. Attach the lower crossbar using the screws and slide on the cover (if the sink is equipped with this cover).

Note

- The automatic sink may be connected only to the ZAC power supply. In any other case the manufacturer does not accept any warranty claims for a reliable operation or any responsibility for damages caused by connecting the system to an improper power supply.
- Electrical connection may be carried out only by a worker with the corresponding qualification and professional capabilities.
- Before putting into operation, the initial revision of the power equipment must be carried out in accordance with valid standards.
- During the whole duration of operation, the operator is obliged to carry out regular power equipment revisions.
- Water after-flow setting may be changed using a remote control panel.
- The remote control panel is not part of the automatic sink delivery.
- It can be ordered separately and can be used for all the products of AZP Brno equipped with the sensors.
- **The product may be set up only within 20 minutes after switching on the power supply.**

Supplied parts

Sink with casing	1 pc	Thermostatic valve	0 (1) pc
Outflow spout	1 pc	Ball valve	0 (1) pc
Electronics module with the sensor	1 pc	Drain siphon	1 pc
Electromagnetic valve	1 (2) pcs	Connecting hose	1 (2) pcs
Angle valve with a filter	1 (2) pcs	Small assembly material	

Non-warranty failures / troubleshooting

Failure	Probable cause	Rectification
Does not flash after switching on	No power supply Connecting to 230 V	Connect power supply Non-repairable damage
Water flow is low	Dirty filter	Clean the corner valve's filter
Water is not running	Sensor is dirty	Clean the sensor
Water runs continuously – electronics function correctly	Impurities in the electromagnetic valve	Clean the valve



Low range	An obstacle in front of the sensing head; the electronics detects this obstacle or a scratched window.	Remove the obstacle Replace the window
Electronics is working properly, no water flow	The device is connected to the switched power supply (e.g. for halogen lights); the electromagnetic valves do not operate at higher frequencies.	Use a specified power supply unit
The water temperature cannot be adjusted	Improperly connected thermostatic valve Impurities in the inlet check valve of the thermostatic valve	Connect properly Disconnect the hose from the valve inlet and clean or replace the check valve.

Maintenance and cleaning:

- The device was made from the stainless steel of quality corresponding with ČSN 17 240 (AISI 304) standard and, therefore, it must not be operated in chemically-aggressive environment and
- **Preparations containing chlorine must not be used for its cleaning!!**
- Cleaning agents by WÜRTH are recommended:
 - Metal renewal agent - Order No. 893 121 1
 - Stainless steel spray treatment - Order No. 0893 121 – K.
- If corrosion has already occurred, it can be removed with a cleaner INNOSOFT B 570 from the company Emergo.

Valve cleaning

- Unscrew three screws that hold the inductor. Remove the inductor and carefully extract a core's plastic cover (beware of losing the spring). Extract the membrane and clean the area below it. Check permeability of both holes in the membrane's plastic centre and reassembly the valve. When reassembling the valve, it is necessary to retain the direction of water flow – it is marked by an arrow on the valve.