



Installation and operating instructions

BSAU 02 – Vandal resistant stainless steel washbasin with connection to one cold or premixed water, to 2 waters or with thermostatic valve

BASIC TECHNICAL INFORMATION:

Time of water flow:	1 – 25 sec. (1 step = 1 sec.) adjusted to 6 sec.
Time of pause:	0 – 45 min. (1 step = 1 sec.) adjusted to 30 sec.
Power supply:	12 V, 50 Hz
Outlet:	d = 40 mm (also possible d = 50 mm)
Power requirement:	6 VA
Water pressure:	1 – 10 Bar
Recommended power supply unit:	ZAC 1/20 (max. 3 x BSAU 02) ZAC 1/50 (max. 8 x BSAU 02)
Inner dimensions:	d 370 x 120 mm
Weblink:	BSAU 02

Description of function

- **BSAU 02** is a stainless steel vandal-proof washbasin for installation on the wall.
- Washbasin is equipped with outflow arm (without aerator) connected to one cold or premixed water (BSAU 02.1), to 2 waters (BSAU 02.2) or with thermostatic valve (BSAU 02.TV).
- After pushing down the vandal-proof control button, the electronic dose a preset amount of water. When water stops flowing the control button can be pushed again and the whole process is repeated. After this, it is possible to preset the "enforced pause". During this time water will not flow even if the control button is pushed (prevents unreasonable use). This pause can be set from 0 to 40 minutes. If 0 minute (no pause) is preset, water flow can be switched on anytime by pushing down the control button.

Installation

Pre-installation preparation

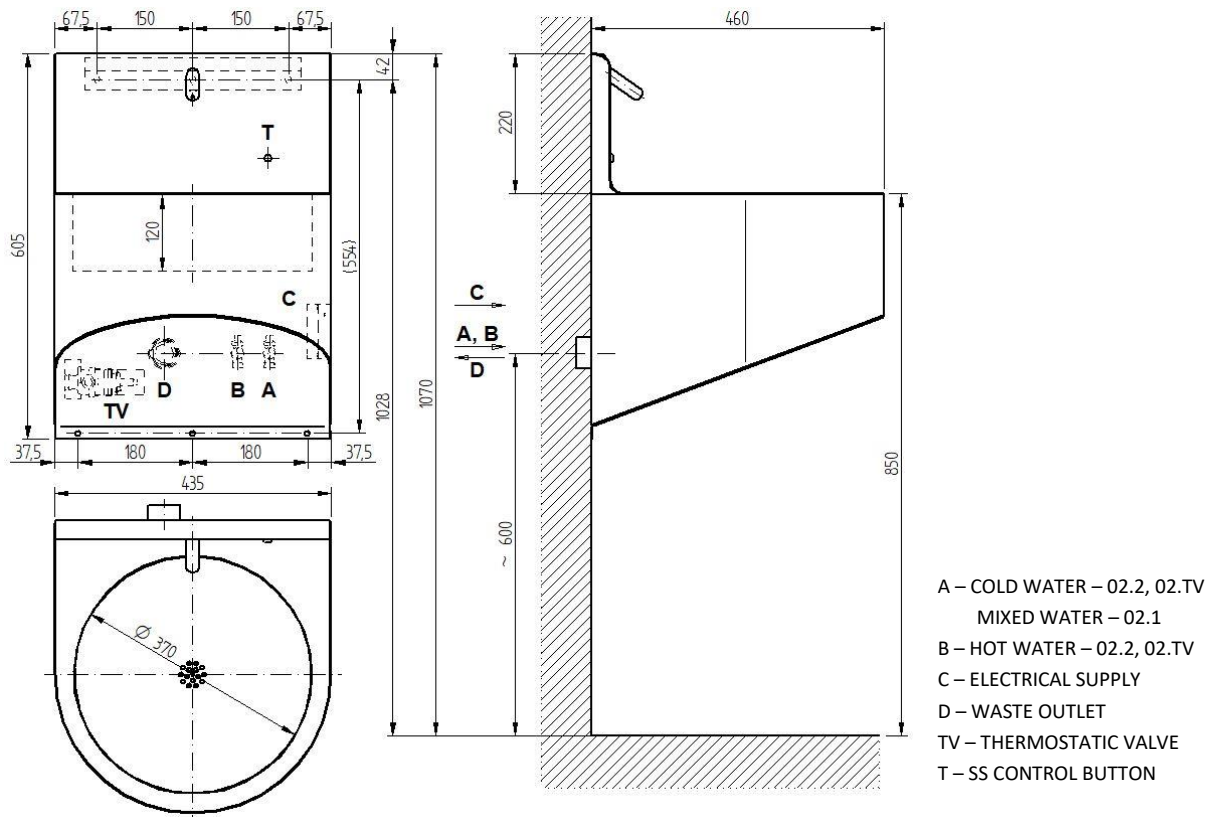
1. Install the water supply pipe with female thread G = ½" - as shown in the diagram.
2. **The water inlet to the washbasin or group of washbasins must be fitted with a filter to remove impurities!!!**
3. Install the outlet D = 40 mm or D = 50 mm
4. Install the CYKY 2A x 1,5 cable for the power supply – 12 V, 50 Hz from the ZAC power source.

Assembly

1. Fix the supporting rail to the wall using anchoring screws.
2. Screw the corner valve with the filter into the water inlet pipe (it is forbidden to use the corner valve without the filter - there is a risk of clogging the solenoid valve). Turn the outlet of the corner valve in such a way that the hose does not break.
3. Connect the water inlet with a flexible hose.
4. For the BSAU 02.TV, the hot water must be connected to the inlet fitting marked in red and the cold water to the inlet fitting marked in blue. If the connections are reversed, the thermostatic valve will not work!
5. Insert the flexible hose into the drain pipe.
6. Connect the 12 V, 50 Hz power supply cable from the ZAC power supply.



7. Adjust the water flow with the corner valve. On a BSAU 02 with a thermostatic valve (BSAU 02.TV), the temperature of the water is regulated by the thermostatic valve and the water flow by a ball valve in front of the solenoid valve. It is not possible to regulate both temperature and flow with the corner valves.
8. Secure the washbasin with screws at the bottom
9. Set the time of water flow and of "enforced pause"



Setting

- All electronics must be set up separately.
- The BSAU 02 can only be set within 20 minutes of the power supply being switched on. If it has been connected for a longer period, switch off the power supply for approx. 5 seconds, switch it on again and carry out the adjustment within 20 minutes. To switch from operating mode to setting mode, hold the magnet approx. 30 mm from the control diode for at least 1 second.
- **Setting** – Place the magnet by the diode - red light will appear. If the magnet is not held long enough (less than 1 second) green light will appear - the electronic will return to its original state.
- **Water running time:** Press the pushbutton shortly within 5 sec after the red light comes on (water starts running). Press the pushbutton again to finish the setting – water will stop running and the electronics will change into the operating mode. The time between both pressings is the set time of water running.
- **Pause time:** After 5 sec since the magnet was placed by the diode, indicator will start flashing red and green and the setting of the pause time will start. Finish the pause time setting by pressing the pushbutton. If no pause is required (i.e. water will run for the time set every time the pushbutton is pressed), the pushbutton shall be pressed within 5 sec after the diode has started flashing red and green; zero time – no pause - will be set.



Control diode

Working state: green light – ready for operation
red light – control button pushed down
green light flashing – electromagnetic valve switched on
orange light – enforced pause

Setting state: red light – electronics is in setting mode
red light flashing – setting of water flow time
red and green light flashing – pause setting

Notice

- The automatic washbasin BSAU 02 can be connected only to the ZAC power supply, in other cases the manufacturer does not take the responsibility for reliable functioning or eventual damage arising from connection to other power supply unit.
- The connection of the electronics can be performed only by qualified and competent worker.
- It is necessary to carry out the initial revision of electric devices before starting operation.
- Routine revisions of the electrical equipment have to be carried out.

Complete delivery

Sink with sheathing and outflow arm	1 pc.	Corner valve with filter	1 pc.
Box of electronics	1 pc.	Waste siphon	1 pc.
Electromagnetic valve	1 pc.	Connection hose	1 pc.
		small mounting parts	

Non-warranty failures / troubleshooting

Failure	Cause	Solution
The pilot light will not blink after switching on	Power source is not switched on Connected to 230 V	Switch on the power source Irreparable—electronic is destroyed
Insufficient water flow	Clogged filter	Clean the filter of the corner valve
Water does not flow – when pushing down the controll button, the control diode is green	Dirt on the sensor – reed contact	Change the distance between the reed contact and the magnet inside the washbasin
Water flows constantly – electronics functions properly	Dirt in the electromagnetic valve	Clean the 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.

Electronics Replacement

- Switch off the power supply, disconnect the electronics from the terminal block, and disconnect the solenoid valve connectors. Loosen the union nuts on the sensors and remove the sensors. Reassembly is carried out in the reverse order of disassembly.