Installation and operating instructions

AUM 026 (.TV) - Sensor-controlled tainless wall-mounted washbasin – with a soap dispenser and hand dryer

BASIC TECHNICAL SPECIFICATIONS

Power supply:	230 V / 50 Hz	
Input power:	standby: 4 VA, water supply 8 VA, soap supply 30 VA, hand drying 2100 VA	
Water pressure:	0.1 MPa to 1.0 MPa	
Water flow time:	1 sec to 25 sec in 1 sec steps	default setting 5 sec
Air blow time:	1 sec to 25 sec in 1 sec steps	default setting 20 sec
Soap flow time:	0.2 sec to 2 sec in 0.2 sec steps	default setting 1 sec
Soap dispensers power:	20% to 100%	default setting 60%
Weblink:	AUM 026	

Description of function

- AUM 026 is an automatic washbasin system encompassing an automatic water dispensing system, a soap dispenser, and a hand dryer. It is intended for thermally treated water supply (AUM 026.1) or for hot and cold water supply (AUM 026.2 or TV). The system is fitted with 3 independent piezo buttons to control the water dispensing procedure (middle button), the soap dispenser (left-hand button), and the hand dryer (right-hand button). Pushing the buttons will trigger water portion supply or soap portion supply or hand dryer activation, respectively.
- AUM 026.TV is equipped with a thermostat that switches hand drying when the temperature drops below 5 C. When the temperature reaches 8 C, the thermostat switches off (preventing the sink from freezing in winter operations).

Installation

Pre-installation preparedness

1. **A 500 mm x 650 mm hole in the wall**. The wall must be **100 mm thick as a minimum**. The maximum wall thickness is only limited by the length of the fixing bolts passing through it.
2. Water supply, power supply (including a connector for the protective interconnection) and a drain must be installed at the opening, Power supply must be terminated with a grid socket connected via a current protector with a release current ≤30 mA. The water feed line must include a filter to trap mechanical impurities. This will contribute to a reliable performance of the electromagnetic valve, the drain 40 mm diameter must be routed from the washbasin's back side towards the technology room.

Assembly

1. Put the front and rear panels into the hole in the wall and join them by means of the bolts.
2. Screw the angle valve(s) with filter(s) into the water feed piping and turn it/them so as to prevent sharp bends of the water feed hose(s).
3. By using a hose, connect the electromagnetic or mixing (thermostatic) valve. If a thermostatic valve is used, be sure to bring cold water to the valve's COLD input pipe and hot water to the HOT input pipe. The thermostatic valve will not perform if you confuse this.
4. Terminate the drain in a pre-prepared sewer system opening.
5. Connect the protective wires (to the front panel, to the rear panel, and to the air feed system).
6. Put a soap container into the holder and submerge the aspiration tube into the container.

7. Turn on supply voltage, wait approximately 5 seconds, test the system, set the water flow rate and modify the default times where appropriate.

Water and hand dryer setting

- Setting is only available within 20 minutes after turning supply voltage on. If the system was under voltage for a longer time, switch the supply voltage off, wait 5 seconds or so, and turn the system on again. Start modifying the system setting within 20 minutes. To switch from the operating mode to the setting mode, attach the magnet approximately 30 mm to the right of the control diode for ≥1 second.
- **Setting**: Attach the magnet. The LED will start illuminating red. If the magnet has been attached for less than 1 second and the LED starts illuminating green after removing the magnet, this indicates that the electronics switched back to the operating mode.
- **Water flow time**: Push the button shortly within 5 seconds of the moment the LED started illuminating red. A next pushing of the button will terminate the setting procedure and the electronics will pass to the operating mode. The time interval between the first and second button pressings defines the water flow time (N.B.: water does not flow in the setting phase).
- **Pause length**: The length of the pause following the supply of 2 portions of either water or air can also be set. Electronics is blocked during the pause and no water or air is delivered. The pause functionality is not used by the current application. The factory setting is 0, i.e. a water or air portion is delivered whenever the respective button is pushed.
- In 5 seconds of the moment the magnet was attached, the LED starts flashing red and green and the pause length setting procedure is started. Push the button to stop the pause length setting procedure. If you wish to have no pause at all, push the button within a time period shorter than 5 seconds of the moment the LED started flashing red and green. A time of 0 sec will be set, i.e. no pause will exist.

Control LED status indications

- **Operating mode**
  - The LED illuminates green: the system is under voltage, ready for use.
  - The LED illuminates red: The button is being pushed.
  - The LED flashes green: The time was stopped by pushing the button before the total time had elapsed.
  - The LED illuminates orange (green & red together): Pause.
- **Setting mode**
  - The LED illuminates green. Electronics has switched to the setting mode.
  - The LED illuminates red: The flow time is being set.
  - The LED flashes alternately red and green: The pause length is being set.

Soap pump setting procedure

- The soap pump parameters can be set within 2 minutes of the moment the supply voltage was switched on. If the system was under voltage for a longer time, switch the supply voltage off, wait 10 seconds or so, and turn the system on again.

Pump output

- Attach the magnet approximately 30 mm to the left of the control LED. The LED will start flashing orange rapidly. Leave the magnet attached and push the piezo button. The system will dispense a portion of soap. Each additional pushing of the piezo button will increase the pump output by 20%. If the button is pushed after the maximum output was reached, the output will be set to the minimum again.

Pump running time

- Attach the magnet approximately 30 mm to the right of the control LED. The LED will start flashing orange slowly. Leave the magnet attached and push the piezo button. The system will dispense a

portion of soap. Each additional pushing of the piezo button will increase the pump running time by 10%. If the button is pushed after the maximum running time was reached, the running time will be set to the minimum again.

Soap container replacement

- The soap container stands freely on the shelf. The container is connected with the dispensing nozzle through tubes and a small engine. The dispensing nozzle has an integrated check valve to prevent the level drop of soap. It is appropriate to supplement soap before dosing engine sucks air. If this happens, the pump must be bled.
- The procedure that is described below applies to the soap dispenser in the operating mode, i.e. under voltage for a time longer than 2 minutes.
- Attach the magnets to both setting points, i.e. to the left as well as to the right of the control LED. The pump motor will start running to full power (irrespective of its setting) and will run for the whole time the magnets are attached. The running time is limited to 15 seconds. The procedure can be repeated if no soap is aspirated during that time. Another option is to press the button on the electronics box and hold it until the aspiration of soap - max 15 sec.
- If the soap is very thick and fails to be aspirated, dilute it with water or, alternatively, aspirate water first (i.e.pour into a container of about 2 cm of water instead of soap) and after the entire system has been filled with water, aspirate the soap.
- Another option is to allow 1/2 "nut to supply soap to the nozzle. Using a button on the electronics to run the engine of the pump and tighten the nut after sucking soap.

Non-warranty failures / troubleshooting

Failure	Probable cause	Remedy
No control LED starts illuminating after turning the system ON	No power supply Circuit breaker OFF / fuse blown	Connect power supply Switch ON / replace
Water flow is low	Dirty filter	Clean the sieve behind the angle valve
No action follows pushing the button	The button is faulty Electronics is faulty	Replace the button Replace electronics
Water flows continuously or does not flow at all while the remaining parts work well	Impurities 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.

Note

- When used in the same surrounding in which standard steel is processed, superficial corrosion can appear due to the sediments of metal particles on the bottom of the trough. It is necessary to rinse well the trough after every usage to remove this possible deposits of corrosion.