

# INSTRUCTION MANUAL MOD. EVO – FOR USER

- ENGLISH -

## INDUSTRIAL GLASS AND DISHWASHER, UNDERCOUNTER TYPE

### LETTER TO THE USER

Dear Customer,

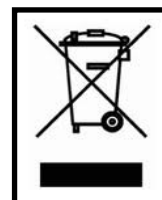
This dishwasher does not present a danger to the operator when used as designed by the manufacturer, provided that the safety devices are maintained in good working order.

This document has the purpose of ensuring: - The efficiency of all safety devices upon receipt of the dishwasher; - Delivery of the user manual used in conjunction with the machine; - The operator's responsibility to follow all instructions in this manual. Please remember that only authorised and trained persons should use this machine.

The manufacturer relies on the user to read and understand this manual in order to obtain the optimum performance from the machine. It is forbidden to reproduce any part of this manual without written approval. The manufacturer reserves the right to change features on the machine without prior notice.



DECLARATION OF CONFORMITY  
EUROPEAN DIRECTIVE  
2002/95/CE RoHS



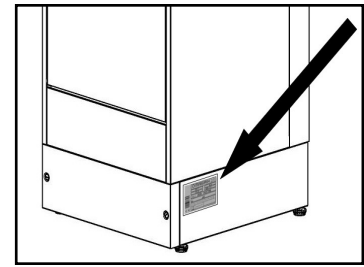
### SUMMARY

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## MACHINE IDENTIFICATION PLATE

For any communication with the manufacturer or its service centers, always give the serial number indicated on the machine. Record below the serial number of your appliance:

Model:	
Serial Number:	
Date of installation:	
Service:	



REVISION	DATE	TECHNICAL AUTHORITY	NOTES

## GENERAL NOTES

Upon receipt of the machine, check that the packaging is intact, that there are no missing parts or any damage. Check that the machine corresponds to the order (see delivery note).

All of our equipment is always inspected, tested and packed at the factory and it is expected that the machine arrives with you in good condition. In case of any damage during transportation, keep the packaging and immediately contact the carrier.

The supply includes:

- ◆ Complete machine
- ◆ Inlet and outlet tubes
- ◆ Adjustable feet
- ◆ Water flow reducer
- ◆ User Manual
- ◆ Certificate of Compliance
- ◆ Baskets

All dimensions shown in the catalogue are not binding and refer to the standard machine. The drawings and any other documents delivered with the machine are the property of the manufacturer, which reserves all rights. These documents cannot be made available to third parties. It is therefore forbidden to reproduce any of the text or illustrations.

## **GENERAL NOTES**

This dishwasher is in compliance with the current provisions in force concerning safety. Improper use may cause damage to people and / or property. Before starting the machine, read these instructions carefully, they contain important safety information. This manual is an integral part of the dishwasher and must be kept with the machine..

The dishwasher is only intended for professional use. It is designed for washing dishes (cups, glasses, plates, bowls, trays, cutlery) and for similar types of items in the field of food and catering. This machine complies with international electrical, mechanical and electromechanical safety norms.

Personnel operating the machine must be regularly trained. Only trained personnel should use it. The dishwasher is not suitable for use by minors or persons with reduced physical or sensory ability. The use of this machine by these people is permitted only under the supervision of a responsible person. Do not allow children to play with the dishwasher, there is the danger that they may be locked inside.

The manufacturer disclaims any liability for damage to persons or property caused by the disregarding of these instructions, incorrect use, or by interference with any part of the dishwasher. If any defective parts require replacement, please contact authorised technical support. The manufacturer can only guarantee safety standards and the correct operation of the machine if these conditions are adhered to. Work performed incorrectly can cause serious hazards to the user, for which the manufacturer is not responsible.

Do not use the dishwasher as a ladder, or as a support for people, objects or animals. Leaning or sitting on the open door could cause it to tip over and endanger people. Keep the door closed to prevent tripping.

A damaged dishwasher can be very dangerous. Never use the machine if damaged. If damaged, isolate electrical power and water and call for service.

The electrical safety of the machine is ensured only if the machine is correctly earthed. It is very important to ensure that this has happened. If necessary, have the system checked by a qualified technician. The manufacturer is not liable for any damages caused by the failure to correctly earth the machine.

To carry out maintenance, disconnect the machine from the electrical supply. The machine is considered connected to the mains unless the general isolator switch is off.

Be careful when handling chemical additives! These products, such as detergent and rinse aid, can be corrosive or irritant. Follow the safety regulations! Wear goggles and gloves! Carefully follow the safety instructions provided by chemical manufacturers. Do not inhale powder detergent. Ingesting it can cause burns to the mouth and throat and lead to suffocation.

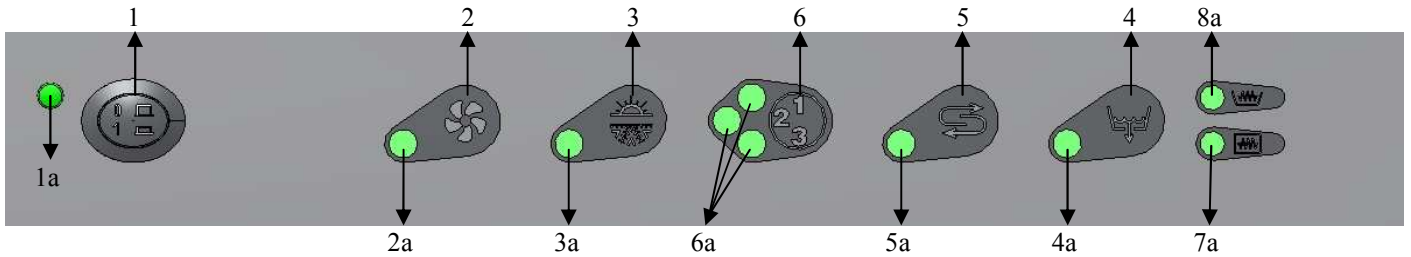
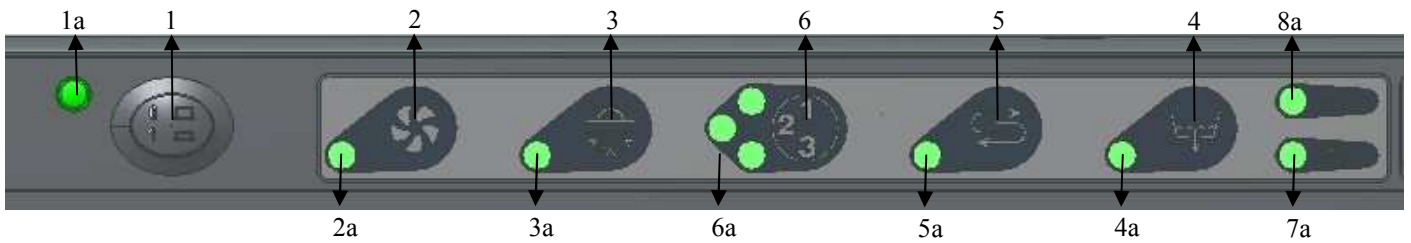
If work has been done to the water supply, the water pipes to the dishwasher must be purged or you risk damaging the water inlet valve. The machine and the surrounding area must not be sprayed with water.










Do not open the door during the operation of the machine, there is a danger from the wash water and detergent. If you open the door at the end of the programme be careful not to touch the heating elements located on the bottom of the tank (danger of burns).

Do not remove panels from the machine. Unintentionally touching live electrical components is very dangerous for the user and may damage the machine.

For correct disposal of the machine, start by eliminating all traces of detergent in accordance with current safety standards (wear gloves and goggles). After that disposing of the dishwasher itself must be according to applicable regulations at the time.

The manufacturer disclaims any liability for damages resulting from failure to observe warnings and safety instructions.

**CONTROL PANEL**

<b>DESCRIPTION</b>		<b>N°</b>
SWITCH 0/1	0  1 	1
LIGHT 0/1		1a
WASH CYCLE SWITCH		2
CYCLE LIGHT		2a
COLD RINSE SWITCH		3
COLD RINSE LIGHT		3a
DRAIN SWITCH SWITCH		4
DRAIN LIGHT		4a
WATER SOFTENER REGENERATION BUTTON		5
WATER SOFTENER REGENERATION LIGHT		5a
TIME SELECTION		6
TIME LIGHTS		6a
BOILER ELEMENT LIGHT		7a
WASH ELEMENT LIGHT		8a

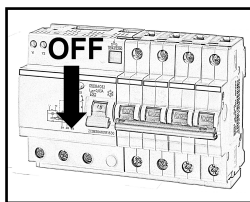
## MACHINE DESCRIPTION

The main features of an INDUSTRIAL DISHWASHER, unlike those of a DOMESTIC DISHWASHER, are different in their ability to wash large volumes of ware in a very short period of time. This requirement means that the design of an industrial machine is considerably different. Certain key parameters of an industrial machine differ by:

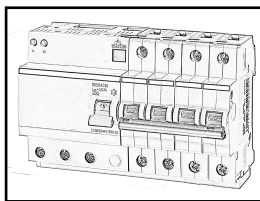
- The capacity of the basket.
- Features of the type of dishwasher.
- An industrial dishwasher is best served with demineralised water, with no impurities. Failing that, a soft or softened water supply should be used (no calcium, magnesium in the water).
- AISI304 heavy duty stainless steel boiler and machine construction.
- Automatic washing and rinsing system.
- Automatic water filling controlled by pressure switch.
- Thermostatically controlled wash and rinse temperature.
- Possibility to rinse glassware with cold water.
- Possibility to stop the cycle by opening the door.
- Automatically rinse aid pump.
- Incoloy tank and boiler elements.

## ELECTRICAL SAFETY REQUIREMENTS

- ◆ Before any cleaning or maintenance, when required, press the switch 0/1 on the position 0 and switch off electrical power at the switch, turning it OFF.

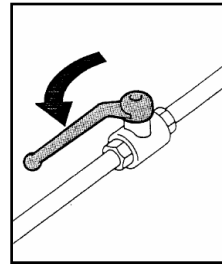
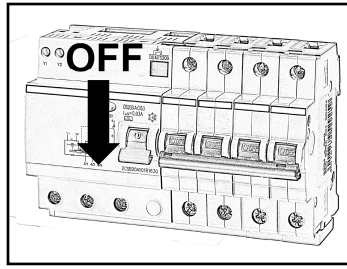


- ◆ Do not change the electrical power cable from the one provided. In case the power cable requires replacing, consult a qualified electrician to replace with Type Y.
- ◆ Verify that the electrical values supplied to the machine meet the demands as specified on the ratings plate of the machine. If not, do not start the machine and call for service.



- ◆ Check that your electrical system complies to regulations and that the machine has been correctly earthed.
- ◆ Do not open the door of the dishwasher while it is running. There is a danger of being sprayed by hot water.
- ◆ Do not use the machine if the temperature around it is less than 5°C.
- ◆ Do not use water to wash the outside of the machine.
- ◆ Check that the incoming water pressure to the machine is between 2 and 4 bar (200 - 400 KPa).
- ◆ Do not remove panels from the machine. Only qualified technical service personnel should remove panels.

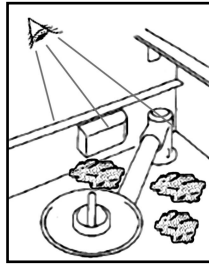
- ◆ In case of water leaks from the machine, switch off electrical power and close off the water supply.



**ATTENTION**

**For the best results from your machine, change often the water in the tank.**

- ◆ When changing wash tank water, or at the end of the day visually check the bottom of the tank for soil and debris.



- ◆ If some soils or debris are in the tank, remove them before starting a new cycle. This is suggested in order to guarantee a correct functioning of the machine.
- ◆ Always wear rubber gloves when cleaning the machine
- ◆ Use caution when closing the door, to avoid hands from becoming trapped!
- ◆ Do not use the dishwasher as a shelf.
- ◆ Do not stand on, or put weight onto the open door. Danger of tipping over!

**ATTENTION:**

**Do not let children, or unauthorised, untrained persons, use the machine.**

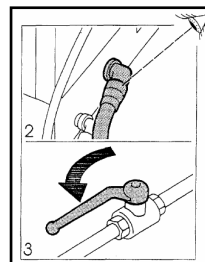
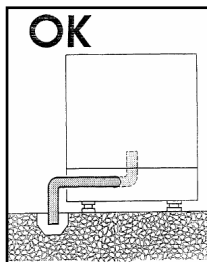
## USER CHECKS

The following tests must be performed only by qualified personnel:

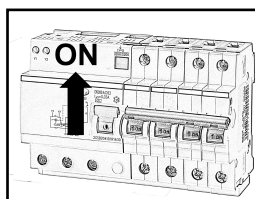
- ◆ Installation and commissioning
- ◆ Water connection and electrical connection
- ◆ Adjustment of the rinse aid dispenser and (if fitted) the detergent dispenser

The user must perform the following daily checks:

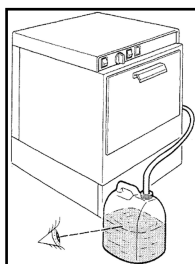
- ◆ Check the correct connection of the inlet and drain tube and that the water supply is open.



- ◆ Check that the main electrical switch is ON.



- ◆ Check the fluid level in the rinse aid bottle (and detergent, if the machine is fitted with a detergent dispenser) Do not allow the chemical drums to become empty if required, replace the bottle and check the correct sucking of the dispenser.



### ATTENTION

**Respect all safety rules when using corrosive chemical products. We recommend the use of gloves and goggles.**

**Every time you change the product (detergent or rinse aid) it is ABSOLUTELY NECESSARY to clean the peristaltic pump tube by immersing than in water for some cycles.**

**ONLY USE PRODUCTS DESIGNED FOR INDUSTRIAL DISHWASHING.**

**We recommended replacing the peristaltic pump tubes during a service call at least every 12 months. Peristaltic tubes flatten over time and dispense less product.**

**Failure to comply with these instructions will void the warranty on the machine.**

**We recommend diluting the rinse aid with water by 50%**

## **OBSERVATIONS BEFORE WASHING**

This machine was developed and designed especially to achieve energy savings. To further optimise the energy savings you can observe the following:

- ◆ Connect the machine to a hot water supply (max 50°C).
- ◆ Use the full capacity of the baskets, without overloading them.
- ◆ Follow the instructions of the chemical supplier.
- ◆ If you use only a partially full basket, reduce the amount of detergent dosed accordingly (for hand dosed machines)

Before loading the dishwasher, observe the following:

- ◆ Remove as much solid waste as possible, by hand, in order not to block filters, drain or jets of wash arms.
- ◆ Pre-Flush with water—an overhead spray is best.
- ◆ When washing, items with soil of starch, protein blood, cheese—allow to pre-soak in COLD water before washing.
- ◆ When racking, be sure that all soiled surfaces can become exposed to the wash spray. Do not allow items to be “shielded” by other items.
- ◆ Insert the glasses and cups with the inside facing downward, avoid overlapping.
- ◆ Check that upper wash arms are not obstructed and that are free to rotate.
- ◆ For best results, we suggest to wash glassware, cutlery and cups separately to plates with a different water used for washing dishes.
- ◆ Do not wash dishes or cutlery in wood or with some wooden parts; in fact wood can warp and be damaged. In addition to this, glues used are not suitable for dishwashers; a consequence could be the detachment of handles or small parts.
- ◆ Pots in copper, pewter or aluminium, or thin glasses, decorated or made of crystal can damage if washed by a glass/dishwasher.

### **ATTENTION**

**Do not wash plastic kitchenware.**

- ◆ If the machine is not supplied with a detergent dispenser, hand dose the wash tank, referring to the chemical manufacturers instructions.
- ◆ Use only Industrial Dishwashing detergents.

### **ATTENTION**

**Observe all safety rules when using corrosive products. We recommend the use of gloves and goggles.**

- ◆ We recommend using a liquid type of detergent.
- ◆ For heavily soiled items, we suggest to soak them with hot water.



## OPERATION

### ATTENTION

**The initial operation of the dishwasher MUST be performed by authorised and qualified person who will check the functionality of the machine.**

- ◆ Open the dishwasher door and check the wash arms are installed. If not, install the wash arms (see Installation Manual) Verify that the suction filter pump is properly assembled. Insert the "overflow" pipe in the case of gravity discharge or check the correct positioning of the drain pump filter. Then close the door.
- ◆ FILLING AND HEATING:
  1. Pressing the switch 0/1 to on, (1) the indicator light turns on (1a) and the machine will make a check of the light. After that, the machine is in the stand-by mode with a flashing light (2a) and if present, the regeneration light (5a).
  2. Pressing the cycle button (2) the machine starts to fill with water.
  3. After filling with water, the machine is ready for washing, state of full machine.
  4. In this state the machine has full control over the wash temperature and water heater tank. So if the water temperature of the boiler is lower than the pre-set temperature, then the element will come on, until the pre-set temperature is reached. The operation of the boiler heating element is indicated by the corresponding light (7a).
  5. Once the temperature reaches the pre-set boiler temperature, the heater element is turned off and accordingly turns off the corresponding light (7a). If the water of the wash tank is below the pre-set temperature, the wash tank element turns on until the pre-set temperature is reached. The operation of the wash tank heating element is indicated by the corresponding light (8a).
  6. At this point, it is possible to start a wash cycle or cold rinse (or water softening or draining in case they are foreseen on the machine).

### ATTENTION

**To obtain a good washing result it is essential to wait for the preset temperatures are reached. When the indicator light 7a and 8a turns off, heating has stopped and temperature has been reached.**

- ◆ WASHING:
  1. Select the cycle by switch (6) slow / medium / fast.
  2. Press the cycle button (2), the corresponding indicator light (2a) turns on.
  3. Wait for the machine to finish the wash cycle/hot rinse.
  4. At the end of the cycle (light 2a turns off), open the door and remove the dishes.

### ATTENTION

**The machines may be equipped with a temperature Interlock. This device allows the machine to perform the rinse cycle only when reaching the set temperature. If the wash cycle has started before the rinse boiler heating lamp (7a) has switched off, then the machine will prolong the cycle, until the set temperature is reached.**

### ATTENTION

**Do not open the door during operation. In case the door is opened during the cycle, the machine will stop. Closing the door will continue the cycle from where you left off.**

- ◆ COLD RINSE BUTTON
  1. Press and hold the cold rinse button (3). Then, the indicator light turns on (3a). The machine will now rinse with cold water.
  2. Switch off the cold rinse button (3). The corresponding indicator light turns off.

## ◆ REGENERATION OF WATER SOFTENER (optional equipment)

**ATTENTION**

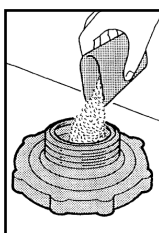
**It is necessary to perform the regeneration of the resins depending on to the degree of water hardness and the number of wash cycles performed.**

**The regeneration time is about 20 minutes. So, we suggest to run the regeneration when time allows.**

**If at the end of a wash cycle, the regeneration light blinks, it is because the machine needs to run a regeneration cycle.**

**Run the regeneration cycle as soon as possible.**

1. Turn the machine off by switching the switch 0/1 to 0.
2. Open the door and check that there is no water inside the tank. If some water is present, completely empty the tank.
3. Unscrew the cap of the salt reservoir and fill the container with salt for water softeners. Then replace the cap. **Do not use cooking salt: it contains anti-caking agents which could damage the resin in the softener!** If during the filling operation some salt is spilled on the bottom of the tank, remove it immediately and rinse with plenty of water.



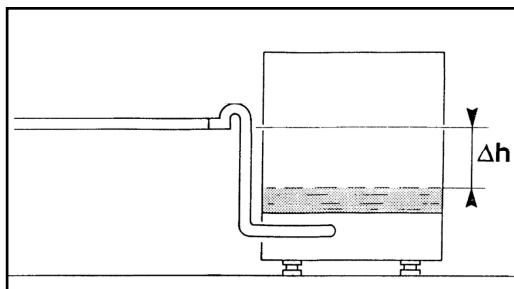
4. Remove the overflow from the machine (if machine is equipped with it).
5. Close the door and press the switch 0/1 to on. The indicator light turns on (1a) and the machine will make a control of lights. After that the machine is placed in the stand-by mode (flashing light (2a) - and the regeneration light (5a).
6. Hold down the regeneration button (5) for 8 seconds, the indicator light turns on (5a) and the regeneration cycle starts.
7. The cycle time to regenerate the water softener takes about 20 minutes..The cycle is finished when the indicator light turns off (5a) and the cycle light blinks (2a).
8. Press the cycle button and allow some water to enter the tank for about 1 minute. This is to rinse the tank from salt.
9. Turn off the machine, moving the switch 0/1 to off, open the door and insert the "overflow" (if machine is equipped with it).
10. At this point, the resin regeneration cycle has been completed.

**ATTENTION**

**Failure to regenerate the resin will result in rapid decay of the resin bed. Consequently, it can affect the normal functioning of the dishwasher. The manufacturer is not liable for any damage caused by failure to regenerate.**

◆ AUTOMATIC DRAIN PUMP (optional equipment):

These models are not equipped with the "overflow" system and they should be used only when the discharge of water is placed above the water level in the tank.



The drain pump automatically operates during the washing cycle while maintaining a constant water level in the tank. When you need to drain the water in the tank, proceed as follows:

1. With the machine switched on, switch 0/1 to 1 and hold the drain button (4) for 3 seconds.
2. The power indicator light (4a) turns on and the machine begins to automatically pump to drain.
3. Wait until the light (4a) turns off, open the door and check that the tank is completely empty. If there is still some water, repeat the again the drain cycle.

## CLEANING

### CAUTION

**If you need to clean the tank, avoid using steel wool, ferrous or abrasives, or liquid detergents not suitable for cleaning stainless steel. Do not use chlorine-based substances to avoid oxidizing the stainless steel (for example, bleach, or similar).**

**Clean the tank wearing rubber gloves.**

**Check that there are no pieces of glass or ceramic that could damage the pipes in rubber.**

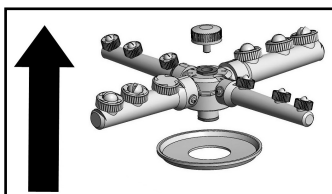
**Remove the filter basket only after rinsing the tank.**

**Change the water in the tank at least once a day, and whenever excessive soil or dirt are in the wash water.**

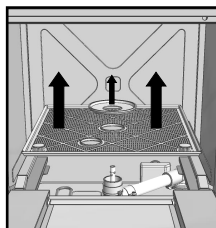
**Clean wash tank water will give better cleaning results.**

### SQUARE BASKET MODELS:

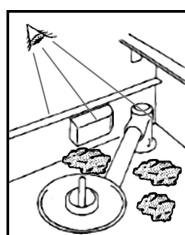
1. Empty the dishwasher.
2. Turn off the machine by pressing the switch 0/1 to 0 and switch off the main isolator.
3. Remove the wash arm by unscrewing the center spindle and remove the mounting plate



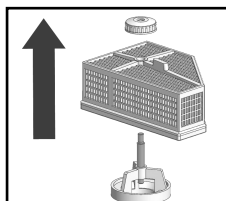
4. If the machine is fitted with the (optional) surface filter, remove it and wash it under running water.



5. Check that on the bottom of the tank there are no soils and debris. Remove them if necessary.



6. Remove the filter basket from the wash pump and wash it under running water.



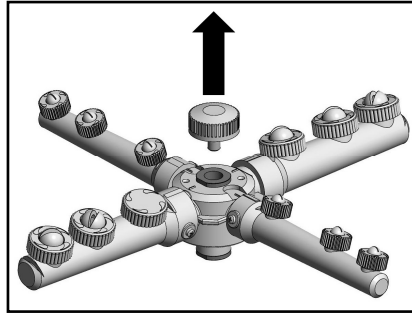
7. Reverse the assembly.
8. We suggest to run 2 filling / drain cycles in order to rinse the tank and the hydraulic system.

## WASH / RINSE ARMS - ROTATING TYPE

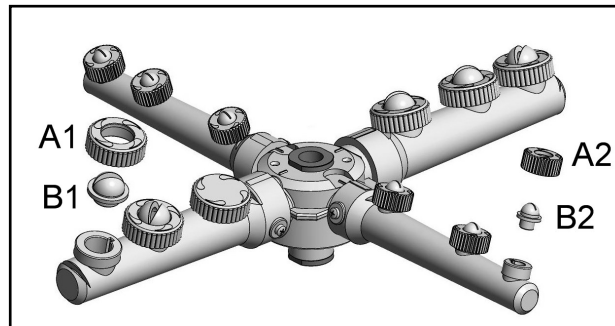
**ATTENTION**

When clearing always wear rubber gloves

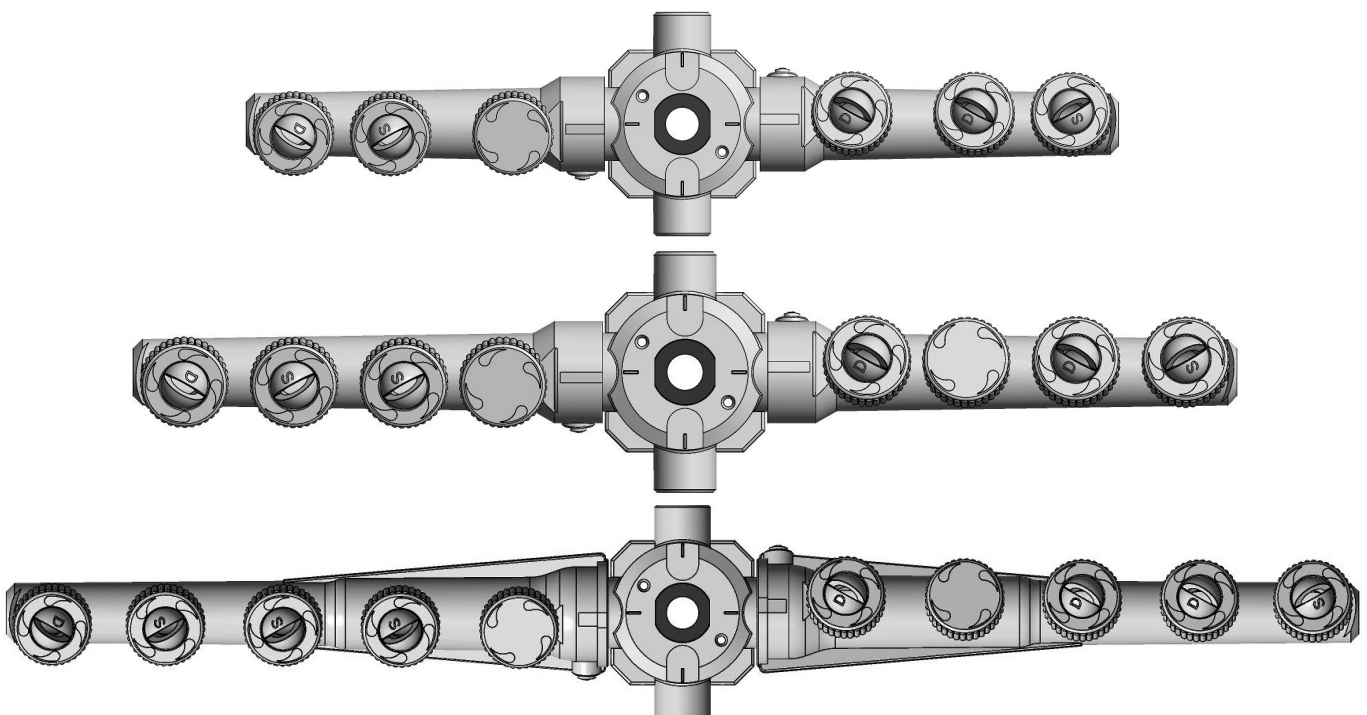
1. Unscrew the centre spindle and lift out the wash arm.



2. Unscrew the nuts (A1-A2) and remove the jets (B1-B2).



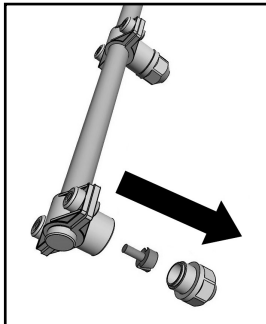
3. Immerse the jets in a solution containing some liquid descaling product (example: Vinegar)
4. Rinse with water. If necessary, clean the jets with a pin.
5. Check that there are no scale deposits on the arm or spindle.
6. Reverse the assembly.
7. It is suggested to wash and clean jets (B1) individually to avoid incorrect assembly.

**DIAGRAM OF THE CORRECT POSITION OF THE JETS**

## RINSE ASSEMBLY

**ATTENTION****When clearing always wear rubber gloves.**

1. Carefully unscrew the jets and take out the rinse jet spinners.



2. Immerse the jets in a solution containing some liquid descaling product (for ex. Vinegar).
3. Rinse with water. If necessary clean the jets with a pin.
4. Before replacing the jets and the spinners run a filling/draining cycle in order to clean the rinse assembly from soil or debris.
5. Replace the jets and the diffuser back onto the rinse assembly.



## **STATEMENT OF COMPLIANCE WITH EUROPEAN DIRECTIVE**

### **2002/95/CE RoHS**

In compliance with what is expressly required by European Directive 2002/95/EC (Restriction of Hazardous Substances in electrical and electronic equipment - RoHS) IME OMNIWASH declare full compliance with the Directive in question in the time and manner prescribed.



### **INFORMATION FOR USERS**

Under Article. 13 of Legislative Decree 25 July 2005, n. 151 "Implementation of Directives 2002/95/EC and 2003/108/EC on the reduction of hazardous substances in electrical and electronic equipment and waste disposal." The symbol as shown on the equipment indicates that at the end of the products life, it must be collected separately from other waste. The user should, therefore, take the equipment at the end of its useful life to a dedicated waste collection station where electrical and electronic items are handled. Alternatively, it can be returned to the dealer when buying a new equivalent product. The separate collection, and the subsequent forwarding for recycling, treatment and environmentally compatible disposal helps to avoid negative environmental and health issues and to promote the recycling of raw materials. Illegal disposal by the user may result in administrative penalties. These are provided for in the Legislative Decree number 22/1997 "(Article 50 and following of Legislative Decree number 22/1997).