

INSTRUCTION MANUAL MOD. ST – FOR USER

- ENGLISH -

INDUSTRIAL GLASS AND DISHWASHER, UNDERCOUNTER TYPE

LETTER TO THE USER

Dear Customer,

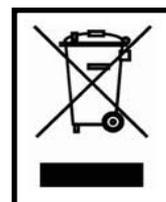
This dishwasher does not exhibit any operating risk for the operator provided that it's used according to the instructions of the manufacturer and on condition that safety devices are constantly controlled and serviced.

This document is aimed to certify: - The efficiency of all safety devices at receipt of the dishwasher; - The dishwasher is also provided with an instruction handbook; - The operator is responsible and in charge to respect all instructions in this manual. Please remember that only authorized and trained persons should use this machine.

The manufacturer relies on the user to carefully read this manual in order to achieve the best 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 on the basis of a constant innovation, research activity and technological quality improvements.



DECLARATION OF CONFORMITY
EUROPEAN DIRECTIVE
2002/95/CE RoHS



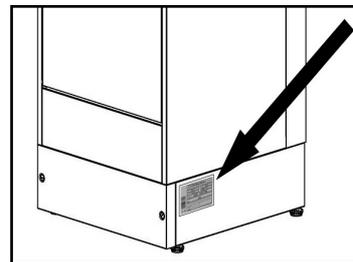
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MACHINE IDENTIFICATION PLATE

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

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

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

The supply includes:

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

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

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 any damage to people 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 authorized technical support. The manufacturer guarantees safety standards and the correct operation of the machine only if these conditions are respected. 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. In case of damage, isolate electrical power and water and call a technician.

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 some works have 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.

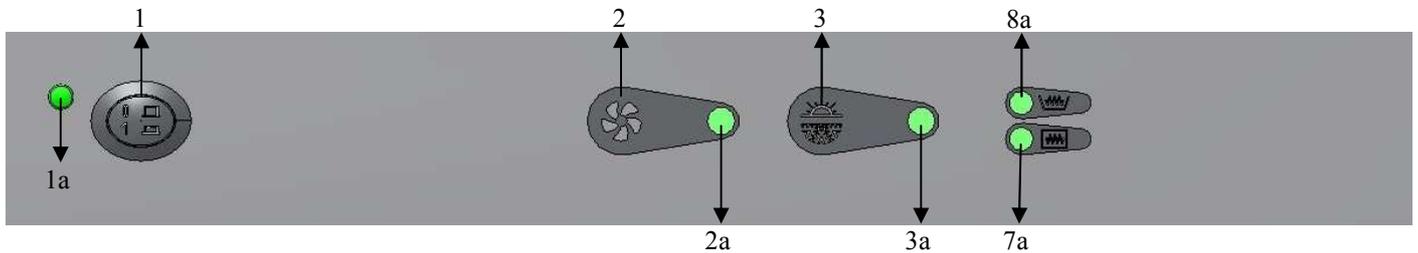
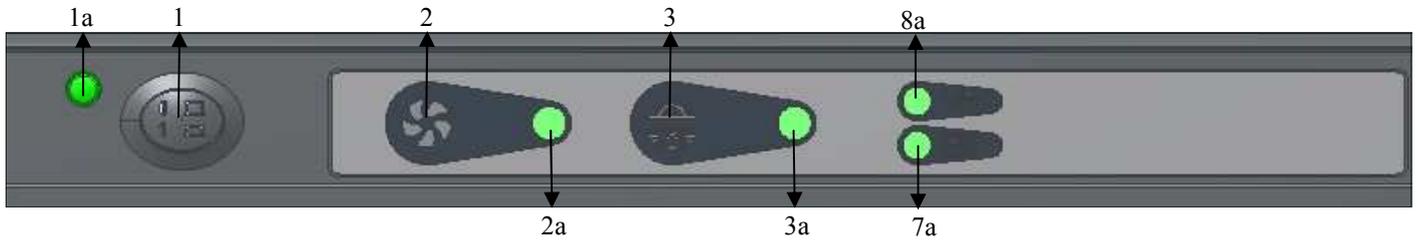
Do not open the door during the operation of the machine, there is a danger from the wash water and detergent. If you open the door at the end of the cycle be careful not to touch the heating elements located on the bottom of the tank (danger of burns).

Do not remove panels from the machine. Unintentionally touching live electrical components is very dangerous for the user and may even 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, the disposing of the dishwasher must be done according to regulations in force.

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

CONTROL PANEL



DESCRIPTION		N°
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
BOILER ELEMENT LIGHT		7a
WASH ELEMENT LIGHT		8a

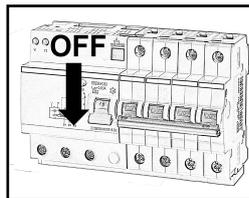
MACHINE DESCRIPTION

The main features of an INDUSTRIAL DISHWASHER, unlike those of a DOMESTIC DISHWASHER, are different in their ability to wash big 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:

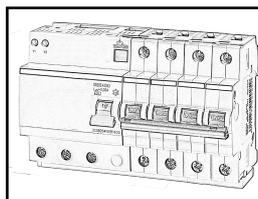
- The capacity of the basket;
- Features of the type of dishwasher;
- An industrial dishwasher can operate better when using demineralized water, with no impurities. In case this won't be possible, a soft or softened water supply should be used (no calcium, magnesium in the water);
- AISI304 heavy duty 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 to OFF.

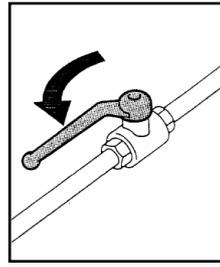
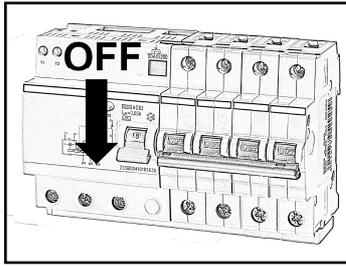


- ◆ Do not replace the electrical power cable from the one provided. In case the power cable requires to be replaced, contact a qualified electrician to replace it by a similar cable, Y Type.
- ◆ Verify that the electrical values supplied to the machine meet with the demands as specified on the ratings plate of the machine. If not, do not start the machine and call a technician.



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

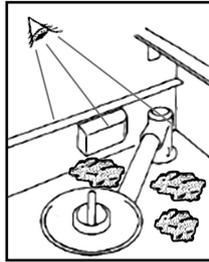
- ◆ In case of water leaks from the machine, switch off the electrical power and close the water supply.



ATTENTION

For the best results from your machine, we suggest you to 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
- ◆ Be careful 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 unauthorized, untrained people use the machine.

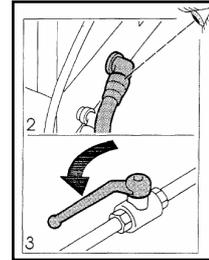
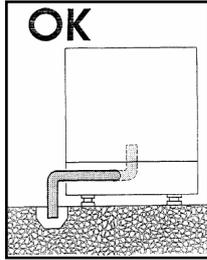
USER CHECKS

The following tests must be performed only by qualified personnel:

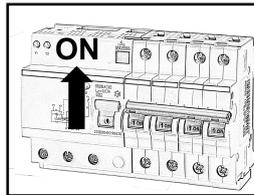
- ◆ Installation and commissioning;
- ◆ Water and electrical connection;
- ◆ Adjustment of the rinse aid dispenser and the detergent dispenser (if fitted on the machine).

The user must perform the following checks every day:

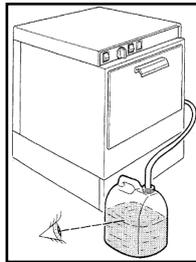
- ◆ Check the correct connection of the inlet and drain tube and that the water supply is open.



- ◆ Check that the main electrical switch is ON.



- ◆ Check the level of the product in the rinse aid bottle (and detergent, if the machine is fitted with a detergent dispenser). Do not allow the chemical bottles to become empty. If required, replace the bottle and check that it is correctly sucking product.



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 tubes by immersing them in water for some cycles.

ONLY USE PRODUCTS DESIGNED FOR INDUSTRIAL DISHWASHING.

We recommended replacing the peristaltic pump tubes 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.

OBSERVATIONS BEFORE WASHING

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

- ◆ 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 better.
- ◆ 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 are 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 and do not overlap them.
- ◆ Check that the upper wash arms are not obstructed and that are free to rotate.
- ◆ For best results, we suggest you to wash glassware, cutlery and cups separately from plates with a different water used for washing dishes.
- ◆ Do not wash dishes or cutlery made of 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 aluminum, 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 rinse them with hot water.

OPERATION

ATTENTION

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

- ◆ Open the dishwasher door and check whether 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 (1) to 1, the indicator light (1a) will turn on and the machine will start a check of the light. After that, the machine is in the stand-by mode and the light (2a) will flash.
 2. Press the cycle button (2), the machine will start filling with water.
 3. After filling with water, the machine is ready for washing; this is the 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, the element will turn on, until when the pre-set temperature is reached. The operation of the boiler heating element is indicated by the corresponding light (7a) which turns on.
 5. Once the temperature has reached the pre-set boiler temperature, the heater element is turned off and accordingly the corresponding light will turn off (7a). If the water of the wash tank is lower than the pre-set temperature, the wash tank element turns on until when the pre-set temperature is reached. The operation of the wash tank heating element is indicated by the corresponding light (8a) which turns.
 6. At this point, it is possible to start a wash cycle or cold rinse.

ATTENTION

To achieve a good washing result it is essential to wait for the pre-set temperatures to be attempted. When the indicator lights 7a and 8a turn off, heating has stopped and temperature has been reached.

- ◆ **WASHING:**
 1. Press the cycle button (2), the corresponding indicator light (2a) turn will on.
 2. Wait until when the machine has completed the wash cycle/hot rinse.
 3. At the end of the cycle (light 2a off), open the door and remove the rack.

ATTENTION

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

ATTENTION

Do not open the door when the machine is working. In case the door is opened during the cycle, the machine will stop. Automatically if you close the door, the cycle will continue from the point where it was interrupted.

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

CLEANING

ATTENTION

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

When cleaning the tank always wear rubber gloves.

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

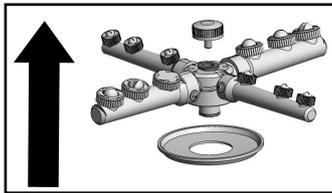
Remove the filter basket only after rinsing the tank.

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

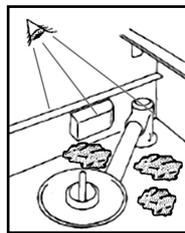
Cleaning wash tank water will perform better cleaning results.

SQUARE BASKET MODELS (3500ST, 4000ST, 5000ST):

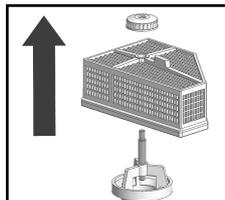
1. Empty the dishwasher.
2. Turn the machine off by pressing the switch 0/1 to 0 and switch the main isolator off.
3. Remove the wash arm by unscrewing the center spindle and remove the mounting plate.



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



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



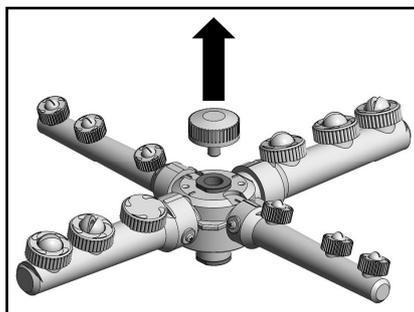
7. Reverse the assembly.
8. We suggest to run for 2 times filling and drain cycles in order to rinse the tank and the hydraulic system.

WASH / RINSE ARMS - ROTATING TYPE

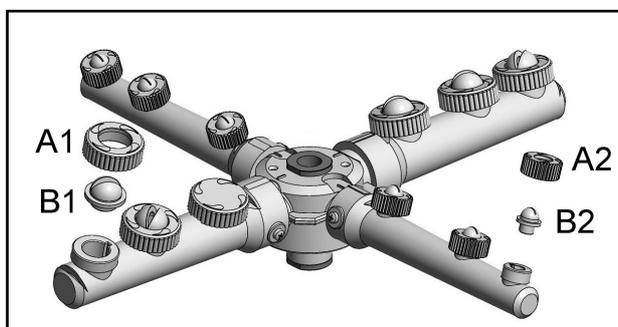
ATTENTION

When clearing always wear rubber gloves

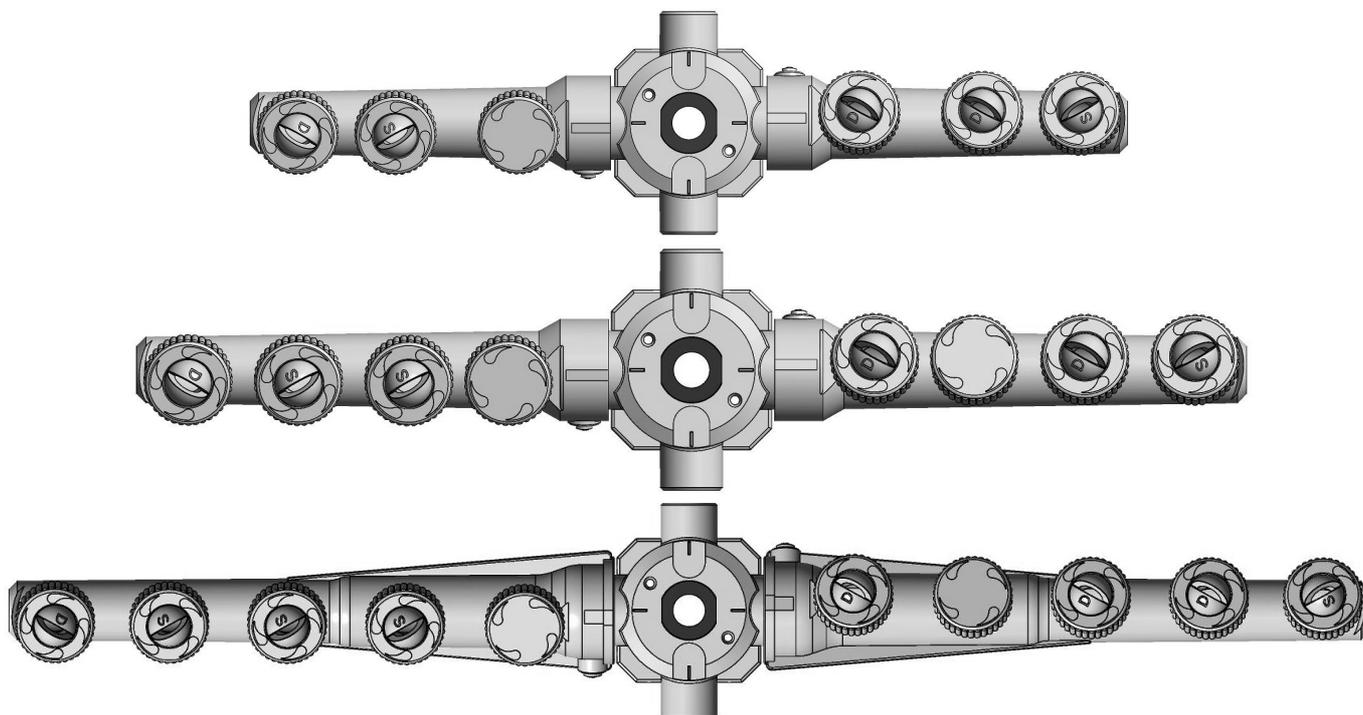
1. Unscrew the centre spindle and lift the wash arm out.



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 in order to avoid an incorrect assembly.

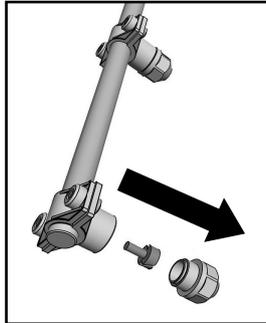
DIAGRAM OF THE CORRECT POSITION OF THE JETS

RINSE ASSEMBLY (3500ST, 4000ST)

ATTENTION

When cleaning always wear rubber gloves.

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

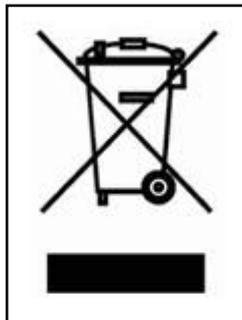


2. Immerse the jets in a solution containing some liquid descaling product (for ex. Vinegar).
3. Rinse with water. If necessary clean the jets with a pin.
4. Before replacing the jets and the spinners run a filling/draining cycle in order to clean the rinse assembly from soil or debris.
5. Replace the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