POT WASHER

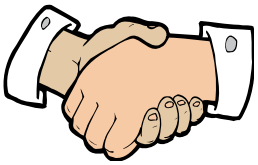
KP202E , KP402E

4246503, 4246509

Installation and Operation Manual



COD.: 4500_U
Ed. 00 - 01/2011



Thank you for choosing our machine.

The instructions for installation, maintenance and use found on the following pages have been prepared to ensure a long life and perfect operation of your unit.

Please, do follow the instructions carefully.

We have designed and built this machine using the latest innovative technologies. Now you shall take good care of it.

Your full satisfaction is our greatest reward

CONTENTS Page

WARNINGS 27
1. MACHINE DESCRIPTION 28
1.1 Machine description 29
1.2 Machine features 30
2. OPERATION 31
2.1 Control panel and relative symbols 31
2.2 Machine start-up 31
2.2.1 Start-up 31
2.2.2 Operation 32
2.2.3 Switching OFF 33
2.3 Detergent use 34
2.4 Rinse aid use 34
2.5 Drain pump system (optional) 34
2.6 Emptying boiler and break tank (anti-freeze function) 35
WARNINGS 35
3. ECOLOGICAL ASPECTS 36
3.1 Recommendations for optimal use of energy, water and additives 36
4. H.A.C.C.P. AND HYGIENE REGULATIONS 36
5. MAINTENANCE 37
5.1 Routine maintenance 37
5.2 Extraordinary Maintenance - by qualified Service Personnel 38
6. MACHINE INSTALLATION 39
6.1 Handling 39
6.1.1 Handling the product 39
6.1.2 Storage 39
6.2 Prepare for installation 39
6.2.1 Room features 39
6.2.2 Electrical connection - Characteristics 40
6.2.3 Water supply connection - Characteristics 70
6.2.4 Steam evacuation 40
6.3 Installation 41
6.3.1 Positioning the machine 41
6.3.2 Electrical connection 41
6.3.3 Water connection 41
6.3.4 Start-up 41
7. SIGNALS AND ALARMS 42
8. ENVIRONMENTAL ASPECTS 43
8.1 Packaging 43
8.2 Disposal 43
9. TROUBLESHOOTING 44



READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING THE MACHINE.



WARNING: FAILURE TO COMPLY, EVEN PARTIALLY, WITH THE PRESCRIPTIONS IN THIS MANUAL WILL RENDER THE PRODUCT WARRANTY NULL, AND THE MANUFACTURER SHALL NOT BE LIABLE.



WARNINGS

This instruction booklet must be kept with the machine for future consultation. If this machine is sold or transferred to other users, make sure the booklet always goes with the unit so that the new owner can have all the necessary information on operations and all relevant instructions.

The instruction booklet must be carefully read before installation and before starting the machine.

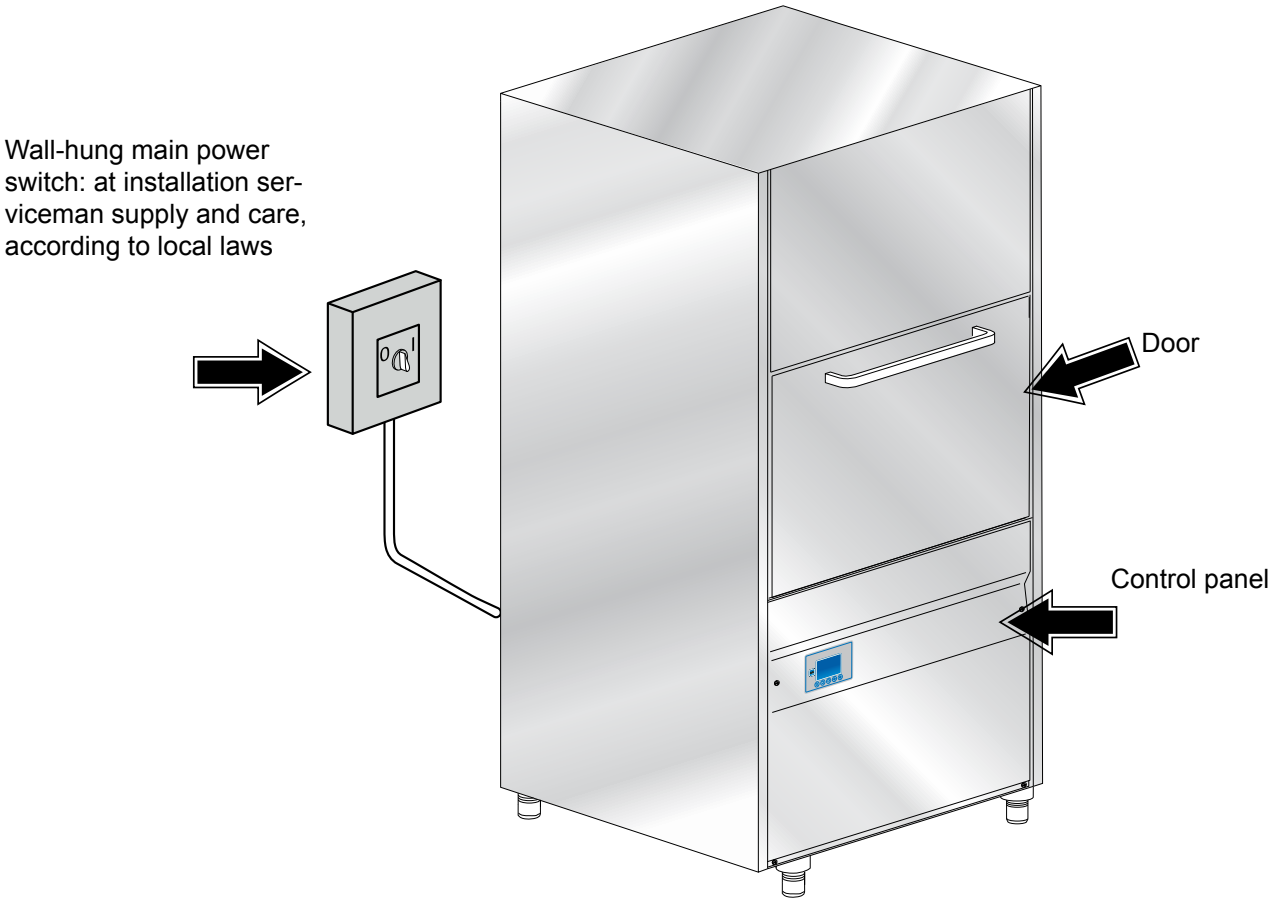
These instructions are supplied to safeguard the users in compliance with Directive 2006/95/CE as amended and the "harmonized product Technical Standard" EN 60335-1 and EN 60335-2-58.

- THE CONNECTION TO THE ELECTRICAL AND WATER NETWORKS, FOR INSTALLING THIS UNIT, MUST BE CARRIED OUT BY QUALIFIED OPERATORS ONLY.
- The user shall not carry out any repair and/or maintenance operations. In any case contact qualified personnel.
- Only qualified personnel can access the control panel, when the main power switch is OFF.
- Servicing of this machine must be performed by authorized personnel only.
  N.B.: Use genuine spare parts only. Non-genuine parts will void the warranty and the manufacturer will take no responsibility for any damage.
- Follow the instructions given in the manufacturer's booklet for cleaning operations (chap.5).
- This machine must only be used by adults. This is a professional machine to be used by qualified personnel, installed and repaired exclusively by qualified Technical Personnel. The Manufacturer declines any responsibility for improper installation, use, maintenance or repair.
- The appliance shall not be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
- Children must be attended and shall stay away from this machine.

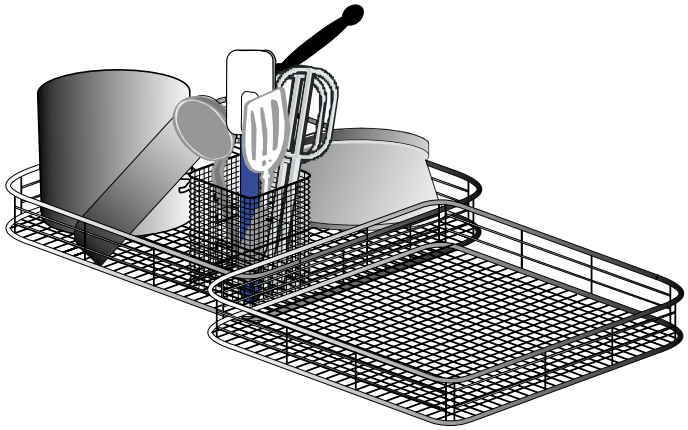
NOTE: The manufacturer declines any responsibility for accidents to people or any damage deriving from failure to observe the above listed instructions.

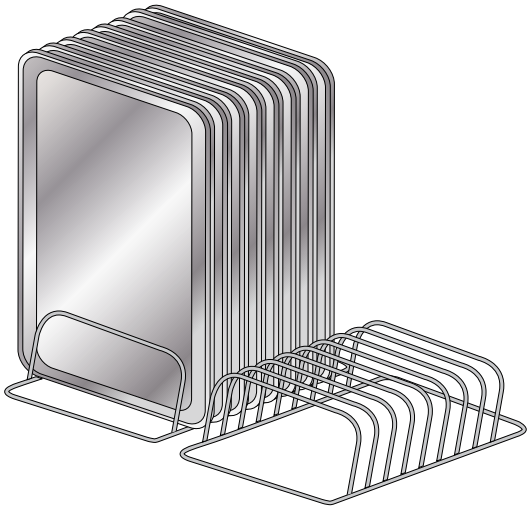
1. MACHINE DESCRIPTION

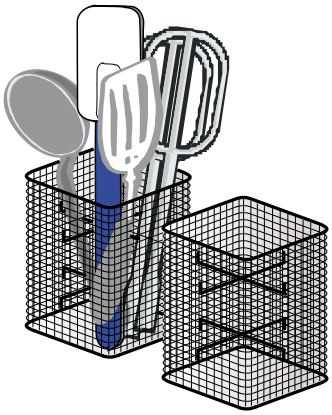
1.1 Machine Description



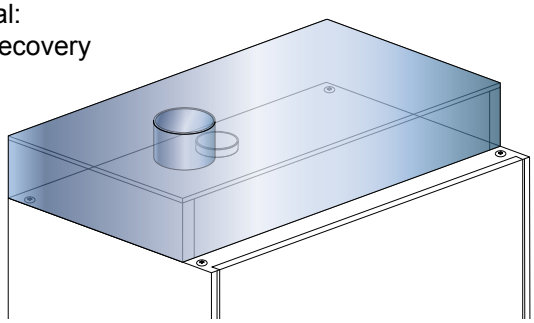
Standard equipment:
nr. 1 Stainless steel rack
and
nr. 1 Inox spatulas rack
and
nr.1 Trays support 8 pcs



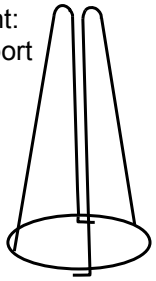




Optional:
Heat Recovery



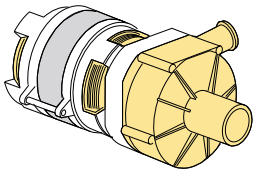
Optional equipment:
Sac à Poche Support



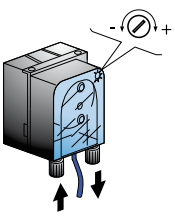
Optional:
Probe lack
detergent/rinse aid



Optional:
Drain pump



Optional:
Detergent dispenser



To operate the machine, 3 connections are needed:

- Electrical;
- Water supply;
- Water drain.

This is a cycle machine comprising a 55°C wash cycle with detergent, a 85°C rinse cycle with injection of rinse-aid in the boiler hull.

This machine is designed exclusively for washing trays, baking-pans, food containers and pans in general with human food type of residue.

Any other use is deemed improper.

Do not wash articles polluted with petrol, paint, chips of steel or iron, fragile objects or material not resistant to the washing process.

Do not use acidic corrosive chemical products or alkaline and solvents or chlorine based detergents.

Do not open the machine door when operating.

In any case, the machine has a special safety device which immediately stops the unit if the door is open, thus preventing water spillage.

Always switch the machine completely off and drain the water tank, before accessing inside.

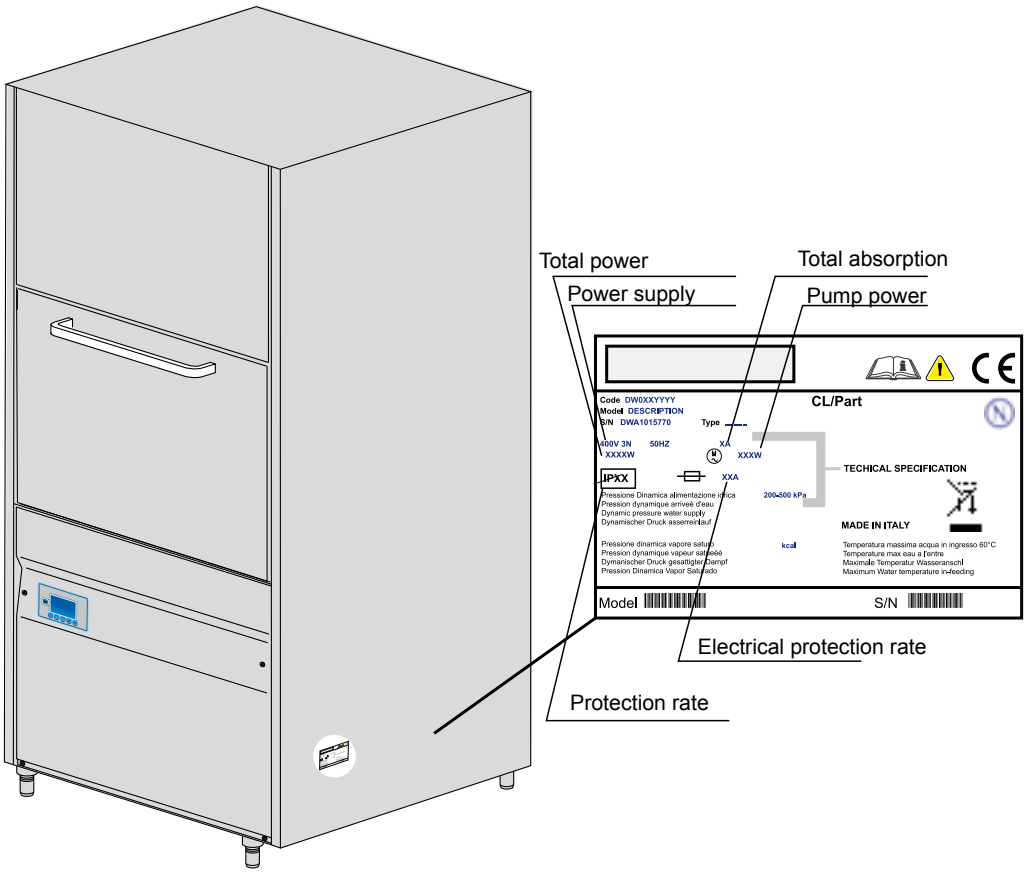
1.2 Machine features

The machine's sound level is Lp_A = 70dBA ± 2.5 (machine with 700x700mm racks). **

The machine's sound level is Lp_A = 73dBA ± 2.5 (machine with 850 x 725 mm racks). **

The machine's sound level is Lp_A = 74dBA ± 2.5 (machine with 1350 x 725 mm racks). **

***test made according to EN 60335-2-58/A11*

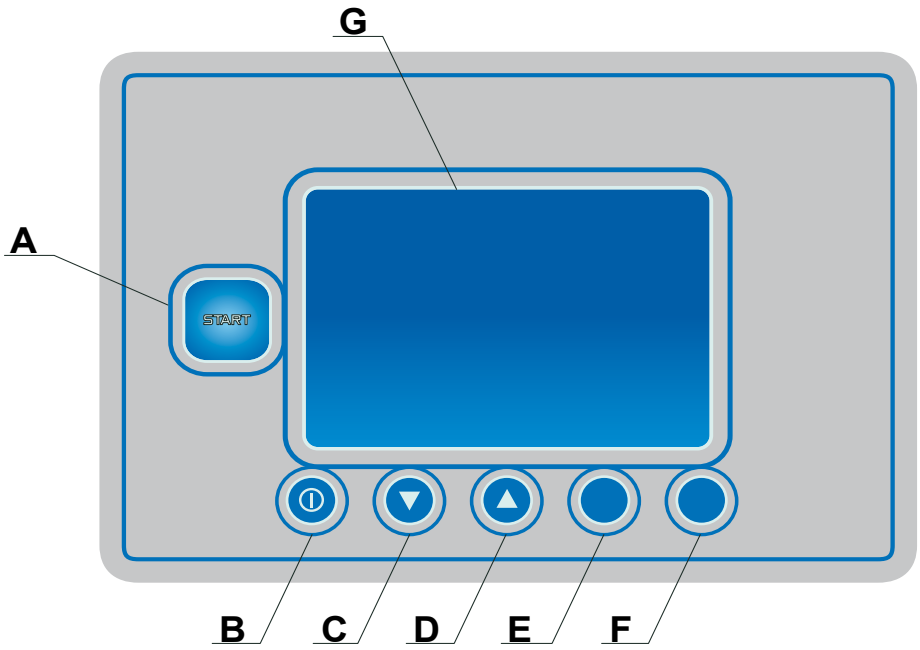




Pict. 1

2. OPERATION

2.1 Control panel and relative symbols

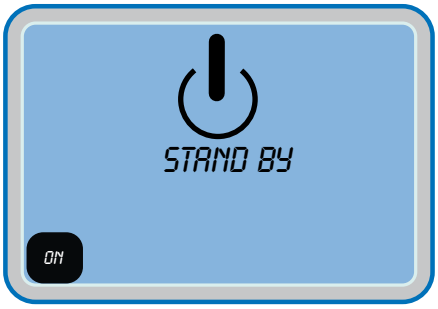


A: Cycle Start/Stop.
Multi-chromatic button:
Firm red light: machine filling/heating;
Flashing red light: alarm signal (check the code on the alarm chart chap. 11);
Green light: machine ready. Select cycle;
Firm blue light: machine in operation;
Flashing blue light: machine in stand-by, anti-freeze function (see chap. 2.6).
B: Machine power ON/OFF (in stand-by only).
C: Cycle Selection;
D: Cycle Selection;
E: Cut out;
F: Cut out;
G: LCD Display

2.2 Machine start-up

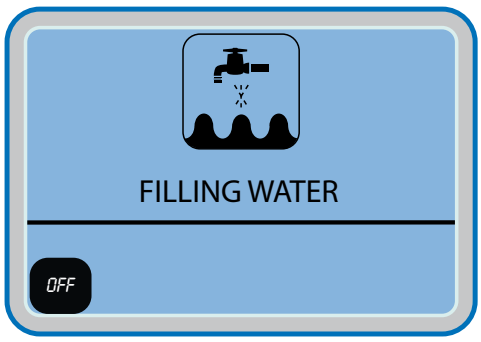
2.2.1 Start-up

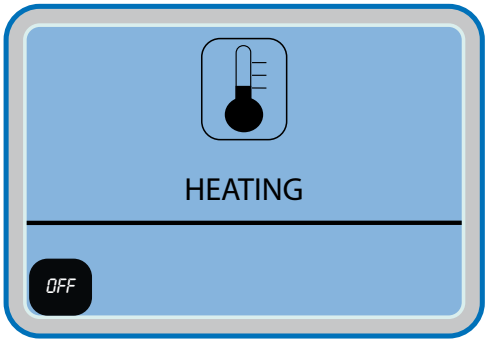
- Put the surface filters in place.
  DO NOT use the appliance without the filters.
- Shut the dishwasher door.
- Turn the water valve “open”.



- Turn the main power switch ON..
- The machine is on **"STAND-BY"**.
  In the **"G"** display, the message **"STAND-BY"** will appear.
- Turn the button **"B"**.
  The machine start will be active when the **"A"** button will light.

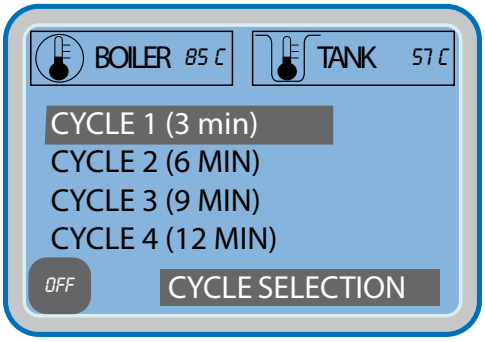
On the **"G"** display the **"STAND-BY"** message will be off.
The button **“A”** will light in white for a few seconds, while loading the software. After loading is complete, the button will light in red.
At this moment, the water filling starts. The display **"G"** will read **"FILLING WATER".**
Check the proper positioning of the overflow pipe.
Once the filling is done, the heating phase will start On the “G” display will appear the reading “**HEATING**”**..".** The reading will stay until both boiler and wash-tank will reach the set temperatures. During this process, the machine will not allow any cycle selection or start
After the filling/heating is completed, the key “A” and the display “G” will turn green.
If the machine is in standard configuration, with hot water in-feed (50°C), with no extra power, the **“A”** button will light in green after some 20 min.



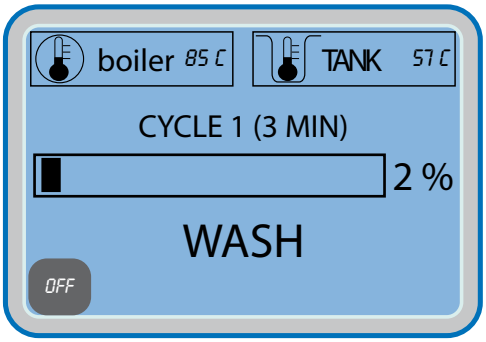


2.2.2 Operation

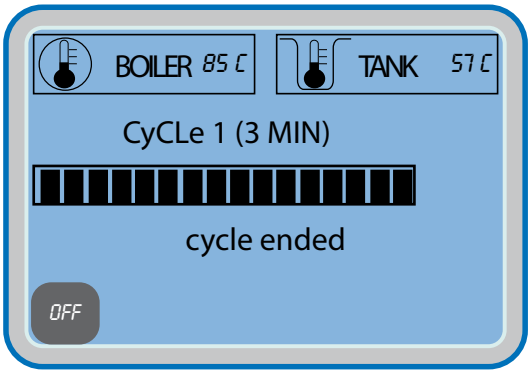
- Insert the rack filled with objects to wash.
- Select the desired wash program by the keys **“C”** and **“D”** or by keeping pressed the “A” key.
  Release the key when the selected program is selected.
  To start the selected cycle press the **“A”** key.
  The “A” key and the **“G”** display will turn blue.
- All wash-time long the display will read the wash-tank temperature and the boiler



temperature.
Below the temperatures indications line-bar is displayed to show the progression of the wash-cycle.
At the end of the washing cycle, a hot rinse cycle will take place
A blue/green flashing on the button **"A"** will indicate the **"CYCLE ENDED".**



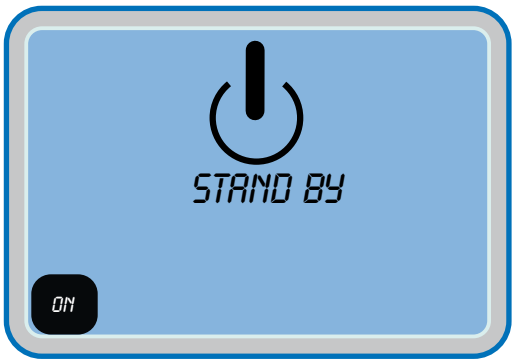
NB: At cycle-end, keeping the door closed, objects will not dry. Extract the rack or keep the door open to allow evaporation, helping the drying of the objects.



When opening the door, the button **"A"** will turn green, indicating that the machine is ready for a new wash-cycle.
NB: The last cycle used remain in the memory of the electronic board
We recommend to change water at least twice a day, or whenever needed.

2.2.3 Switching OFF

- Turn the button **"B"**. The display will show **"STAND-BY"**.
- At the end of the day, clean the machine (see chap. 5 "Maintenance").
- Shut the water valve.
- Switch the main power switch OFF.

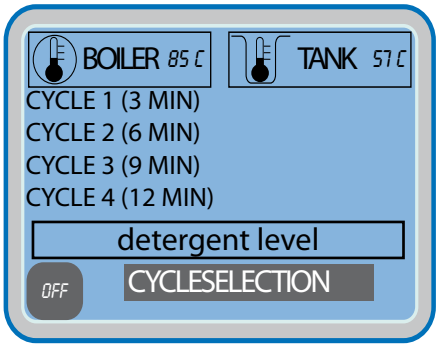


- Remove the overflow pipe. At the end of the day, is recommendable to leave the door open.

2.3 Detergent use



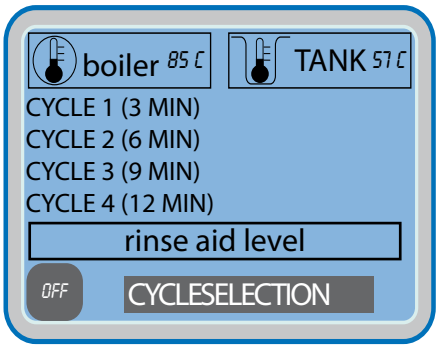
The machine can be equipped with the detergent dispenser. If provided, the machine will automatically take the needed detergent amount
The detergent shall be the NO FOAM type, suitable for industrial dishwashers and must comply with the EN 60335-2-58/A11 norms.
The use of good quality liquid detergents is recommended.
Follow the manufacturer's recommendations for chemical dosage, related to the local water hardness. 1cm. of the product drawn into the tube is equal to about 0.15 g. A correct amount of detergent is very important for a successful wash.
Should the detergent lack, the display will show **"DETERGENT LEVEL"** (only with optional "Sensor for Chemicals Low Level").



2.4 Rinse aid use



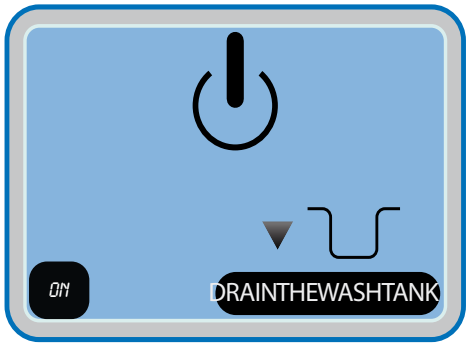
The machine has a standard rinse aid dispenser. The machine automatically sucks the product.
The rinse-aid chemical, shall be suitable for professional glass and dishwashers and must comply with the EN 60335-2-58/A11 norms.
The recommended amount is 3-6 cm of product measured on the suction hose.
1 cm of the product drawn into the hose is equal to about 0.13g. A correct amount of rinse aid is very important for a quick and proper drying.
NB: Excessive amount of chemicals or foam will reduce wash pump efficiency.
Should the detergent lack, the display will show **"RINSE-AID LEVEL"** (only with optional "Sensor for Chemicals Low Level").

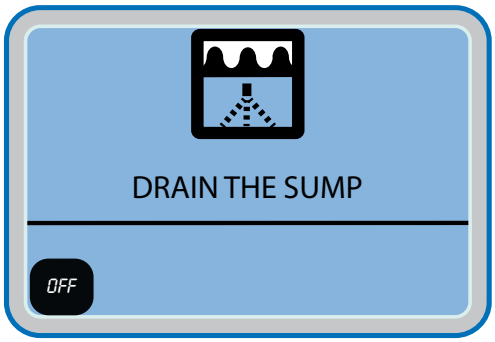


2.5 Drain pump system (optional)

The machine can be equipped with discharge pump.
Press the key **"E"** till the display will show **"DRAIN THE SUMP"**.
The Drain pump will automatically drain the wash-tank.
During the drain process, the button **"A"** will light in blue and will be flashing.

After the draining is complete, the machine will turn automatically in **"STAND-BY"** mode. If you want to refill the machine for a new cycle, see chap. 2.2.





2.6 Emptying boiler and break tank (anti-freeze function)

This function permits the draining of the boiler and the break tank for any extraordinary maintenance or emptying function.

- Press key “B” (Stand By) and make sure that the tank is empty.
- Press the "A" (Start) button for 3 seconds and the boiler e break tank draining will activate. The message “Boiler draining" will appear on the display and the "A" (Start) button will flash in blue light. Should the wash-tank be full, the system will not start the draining phase of the boiler and the display will show “Drain the wash-tank!”.
- Once emptying is complete, the machine can be turned back on with key “B” (ON), but is frozen until the tension is removed and replaced **by the general wall switch.**

WARNINGS:

- Do not slam the door when opening and closing.
- Do not put material or objects on the machine.
- The machine has an IPX3 protection rating against accidental water splashes and is not protected against pressurized water jets. Pressure-cleaning systems shall, therefore, not be used on this machine.
- Do not dip bare hands into water containing detergent. If this should occur, wash them immediately with plenty of water. Check the safety instructions on the detergent container.
- Some important rules must be followed for using this appliance:
  1) never touch the appliance with wet hands or feet;
  2) never use the appliance when barefooted;
  3) do not install the appliance in places exposed to water splashes.
- **This machine must be disconnected from the main electrical supply after use at the end of the day and for any service/maintenance operation. Switch off the main switch located on the wall, which shall be installed by a professional installer. Shut the water supply valve(s).**
- Do not cover the intake or dissipation grids.
- Do not use water to extinguish fires on electrical parts.

WARNING: INTERNAL CLEANING OF THE MACHINE SHALL BE CARRIED OUT AT LEAST 10 MINUTES AFTER THE POWER SWITCH HAS BEEN TURNED OFF.

WARNING: DO NOT INSERT HANDS AND/OR TOUCH THE PARTS LOCATED AT THE BOTTOM OF THE WASH TANK AND/OR AT THE END OF THE WASH CYCLE.



3. ECOLOGICAL ASPECTS

3.1 Recommendations for optimal use of energy, water and additives

Use the machine fully loaded when possible.
This shall prevent detergent, rinse aid, water and energy consumption waste.

Detergent and rinse-aids
Use detergents and rinse-aid chemicals with high biodegradability, to best respect the environment. Verify proper dosage in relation to water hardness at least three times a year. Excess product pollutes rivers and seas while an insufficient dose results in unsatisfactory dish washing and/or hygiene.

Boiler and Wash-Tank temperatures
The boiler and tank temperatures are set by the manufacturer in order to obtain the best washing results with detergents on the market. The temperatures can be reset by the installer in relation to your detergent.

Pre-washing

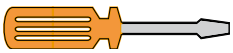
Carefully pre-wash with a moderate amount of water at room temperature to facilitate the removal of animal fats. To remove encrusted materials warm water soaking is recommended.

Note:
Wash objects as soon as possible to avoid deposits from drying and compromise effective washing.
For effective washing routine dishwasher cleaning and maintenance is advised (see chap. 5).

Disregarding the points listed above and of any the information contained in this manual can cause energy, water and detergent waste with a subsequent increase in running costs and/or performance reduction.

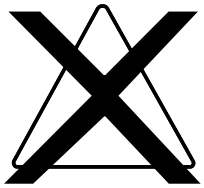
4. H.A.C.C.P. AND HYGIENE REGULATIONS

- When starting the machine ON, no wash-cycle will be starting until the set boiler and wash-tank temperatures are reached. During operation, the machine will not start the rinse cycle till the set boiler temperature is reached.
- Remove carefully all solids from the objects to be washed, to avoid obstruction of filters, nozzles and piping.
- Drain the wash tank and clean the filters at least twice a day.
- Check if the detergent and rinse-aid dosage are correct (as recommended by the manufacturer). In the morning, before starting the machine, check that the quantity of chemicals in the canisters is enough for daily supply.
- Keep your working tables clean.
- Extract the rack with clean hands or gloves to avoid finger marks.
- Do not dry or polish the washed objects with cloths, brushes or rags that are not sterile.



5. MAINTENANCE

5.1 Routine maintenance

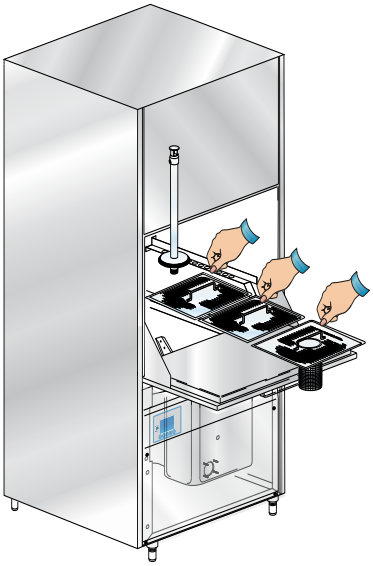


WARNING: The machine is not protected against pressurized water jets. Do not use pressure cleaning system against the machine.

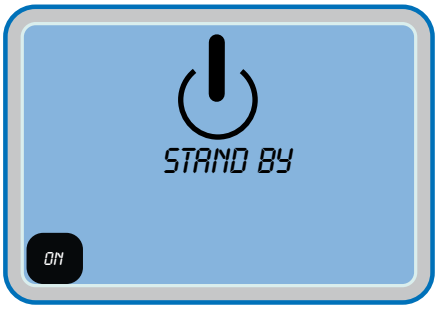
It is recommended to contact the seller of chemicals for proper cleaning instructions, in order to have detailed indications on methods and products for the correct periodical machine sanitation.

Do not use bleach or chlorine based detergents.

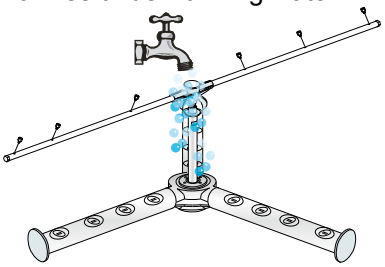
Daily cleaning is needed to ensure that the machine runs perfectly. The following shall be carried out:



- Turn the machine in **"STAND-BY"** mode, by pressing the push-button **"B"** of the control panel (see chap. 2).

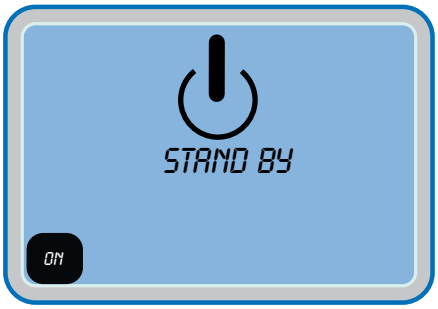


- Remove the surface filters and clean them under running water. Drain the sump water (see chap. 2.2.3).
- Remove the overflow
- Remove the pump filter and clean with a brush and a water shower.
- Remove the arms by loosening the fixing screws, and thoroughly clean them, and the nozzles under running water.





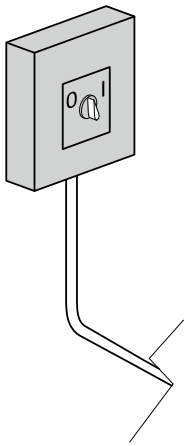
- Reassemble the parts and reposition the wash pipes firmly in place.
- Clean the tank very carefully, using a water shower.
- It is recommended to leave the machine door open at the end of the day.
- Automatic cycle of machine self-cleaning/rinsing: recommended at each day end. With the machine on **"STAND-BY"** mode, remove the overflow pipe and, when the tank is empty, press the START “A” key; an automatic cycle of 60 seconds will start, after this the machine will be in **"STAND-BY"** mode.
- Shut the water valve.
- Turned off the machine by switching the main power switch OFF.



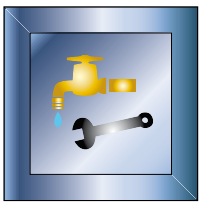
5.2 Extraordinary Maintenance – by qualified Service Personnel

Once or twice a year have the machine inspected by a qualified technician, in order to:

1 Clean the solenoid-valve(s) filters;
2 Remove scale from the heating elements;
3 Control the status of the seals;
4 Control for components integrity and/or consumption;
5 Control the dispenser(s) efficiency;



A qualified electrician, should check all electric connections inside the machine, at least once a year.



6. MACHINE INSTALLATION

6.1 Handling

6.1.1 Handling the product

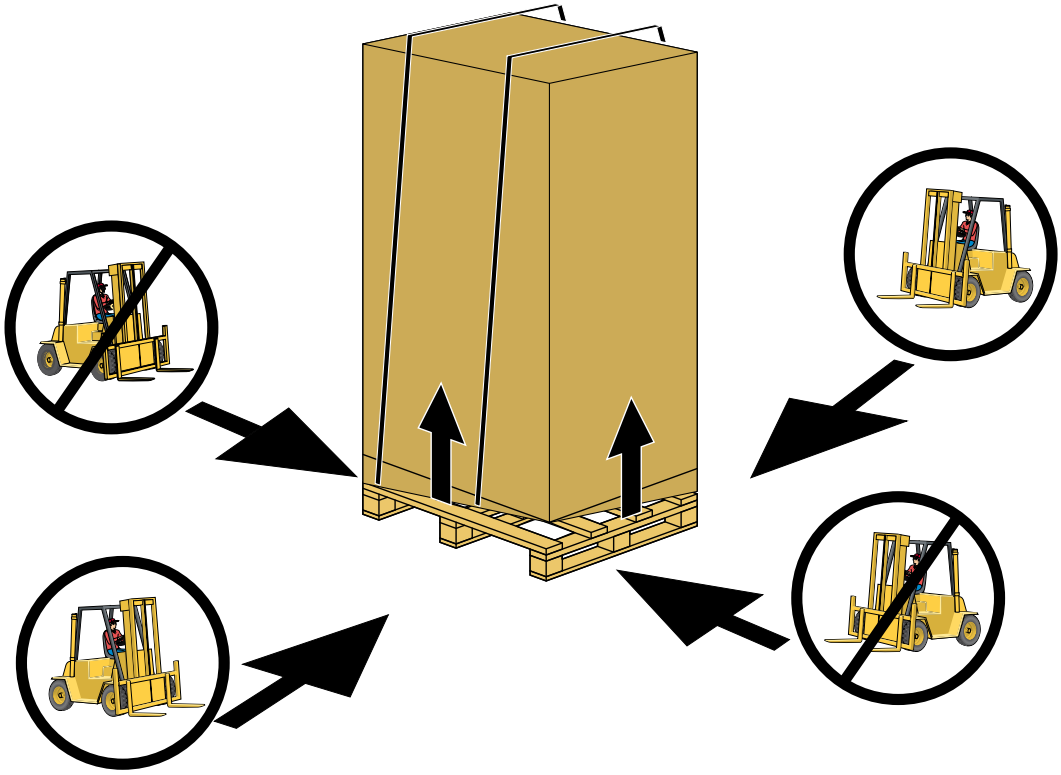
The machines must be handled strictly as shown in pict. 4 regarding the grip points indicated for lifting with a lift truck.

Latch the machine in a way that secures no vibration or shocks during transportation.

N.B.: Slinging with ropes not recommended.

After unpacking, make sure the appliance has not been damaged due to transportation. If it has been, do notify the seller about this problem. If the damage might question the machine's safety, do not install the appliance. See chapter 8 for disposal of the packing material.

Pict. 4



6.1.2 Storage

Storage temperature: min. +4°C - max +50°C - humidity <90%.

The stored parts should be checked periodically, to detect any sign of deterioration.

Do not put anything on the machine, even if packed in its box.

6.2 Prepare for installation

This is just a guide-line for the machine installation.
The installation must be performed by a qualified engineer.

6.2.1 Room features

Install the machine, in a room closed to weather and with a guaranteed temperature-range between 5 and 35°C.

The machine is equipped with thermostatic sensors to manage the temperatures. To guarantee a proper functionality these sensor shall not operate at a room temperature below 5 C°.

For this reason, it is fundamental that before starting the machine reaches the room temperature.

6.2.2 Electrical connection - Characteristics

The electrical connection to network shall be carried out in accordance to the local laws in force.
Make sure that the supply voltage is the same as reported on the machine plate and that the network can stand the needed power absorption shown on the same plate.
Make sure that the facility is equipped with efficient ground connection.

A suitable omni-polar, one-way switch shall be installed and sized according to the absorption provided, with a contact opening of at least 3 mm. This switch shall be solely and exclusively used for this purpose and installed in the immediate vicinity of the machine, installed in full respect of the local laws. Always turn the machine off via this switch. This is the only model of switch that guarantees a total electrical power disconnection.

6.2.3Water supply connection - Characteristics

Fresh water supply features:

Table 1

Water characteristics table	Min	Max
Static Pressure	200Kpa	400Kpa
Dynamic Pressure*	150Kpa	300Kpa
Water hardness**	5°f	8°f
Cold water-supply temperature	5°C	15°C
Hot water-supply temperature***	45°C	55°C
Capacity	12 lt/min	

*Should the water supply pressure be more than 400 kPa, a pressure reducer must be installed.

It is compulsory to install a water-softener, in case of water with average hardness above 8°f. Washed objects will be cleaner and the machine will last much longer.
The machine can be equipped with a water softener, on request. If the machine is equipped with a water-softener, a regeneration of the resins shall be done on regular basis.
N.B.: Any damage caused by limestone (calcareous water higher-up than 8°F and without water-softener) will not be covered by warranty.

A periodical check of the supplied water hardness is highly recommended.
***The water supply temperature shall never exceed 55°C.

If the machine is equipped with the Heat Recovery System, one of the two connections (the one with the blue label) must be linked to cold water. A hot water supply on that connection will not allow any energy recovery or steam reduction.

The drain tube shall always be connected to a siphon in order to prevent the release of odors.

Maximum drain height (machine with 700x700mm racks) is **cm. 25** (without optional drain pump).

Maximum drain height (machine with 850 x 725 mm racks) is **cm. 25** (without optional drain pump).

Maximum drain height (machine with 1350 x 725 mm racks) is **cm. 15** (without optional drain pump).

6.2.4 Steam evacuation

In accordance with regulations of environmental hygiene, for the proper functioning of the machine and a healthy environment for the operator who working in there, it should be at least 10 air volume changes per hour in the room where the machine is installed.
For small wash rooms we recommend at least 15 air volume changes per hour.

6.3 Installation

6.3.1 Positioning the machine

Remove the packing with care.

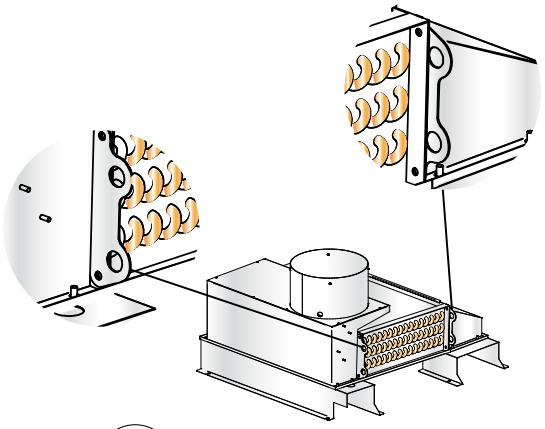
Lift the machine as described in chap. 6.1.1 " Handling the product".

Position the machine as shown on the installation diagram (lay-out) approved at the time of the offer.

Maintain a minimum distance of about 50 mm from the walls, so that motors are ventilated.

Install suction hoods to assure proper ventilation of the room, in order to eliminate steam and excessive humidity.

Pict. 5



Check that the machine is properly levelled, by adjusting the legs.

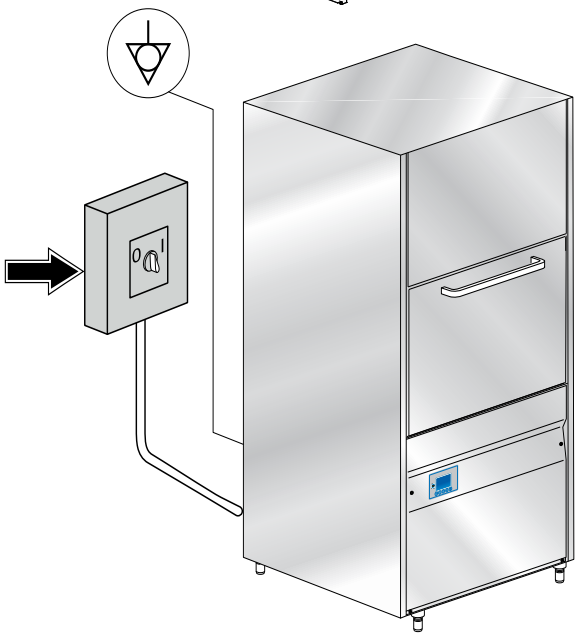
Make sure the machine is not standing on the power cable or on the filling/ drain hoses. Level the machine flat, by adjusting the support feet.

In case of relocation of the machine, DO NOT use the lifting hooks of the heat exchanger (if installed) to lift the whole machine (see pict.5).

Those hooks are designed to bear the weight of the heat exchanger only, not the whole machine.

6.3.2 Electrical connection

The electrical connection shall be carried out in accordance to the local laws in force.



Pict. 6

The machine has a connection at the back, indicated by the symbol that is meant to link the metal structure and masses among different apparatuses, to prevent electro-static electrical shocks.

The electrical supply cable must be new, flexible, and according to "har" H07RN-F or a local valid equivalent The cable size is dimensioned according to the power.

Should the electrical supply cable get damaged it shall be changed by the Manufacturer, or his Authorized Service, or other technician with equivalent qualification, to prevent any risk.

If the machine is fitted with a three-phase pump, check the correct motor rotation (right rotation as per arrow on the casing).

6.3.3 Water connection

Connect the draining pipe, supplied with the appliance, to the connection elbow located in the tank bottom.

The drain tube shall always be connected to a siphon in order to prevent the release of odors.

If the water cannot be discharged to a level below the machine drain, it is advisable to install a drain pump (supplied on request).

6.3.4 Start-up

At installation engineer’s care.



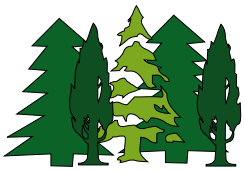
7. SIGNALS AND ALARMS

The alarm messages are displayed, based upon their meaning.
When displaying "DETERGENT LEVEL" add detergent in the detergent tank (only with optional "Sensor for Chemicals Low Level").
When displaying "RINSE-AID LEVEL" add rinse-aid chemical in the rinse-aid tank (only with optional "Sensor for Chemicals Low Level").

When displaying "**DOOR OPEN**" means that the open door does not allow the maneuver tried, or a wash cycle was in progress, when lifting the door.

TYPE OF ALARM	CAUSE	REMEDIES
B1	BOILER FILLING FAIL	Open the water supply valve and verify a proper water supply flow. Contact Technical Service
B2	BOILER PROBE FAIL.	Contact Technical Service
B3	BOILER HEAT. ALARM	Contact Technical Service
B4	RINSING FAILED TIME OUT RINSE	Contact Technical Service
B5	BOILER OVERHEATING	Contact Technical Service
E1	WATER LOAD FAILED	Open the water supply valve. Contact Technical Service
E2	TANK PROBE FAIL.	Contact Technical Service
E3	TANK HEATING ALARM	Contact Technical Service
E5	TANK OVERHEATING	Contact Technical Service
E6	TANK DRAINING FAIL.	Check the overflow pipe. Contact Technical Service

Table. 2





8. ENVIRONMENTAL ASPECTS

8.1 Packaging

Packaging is made of the following components:

- a wooden pallet;
- a nylon sack (LDPE);
- a multi-layer carton;
- polystyrene (PS) strips;
- polypropylene (PP) banding.

All above materials, shall be disposed and treated in accordance with the Local Laws in force.

8.2 Disposal

The symbol WEEE/RAEE used on this product indicates that it cannot be treated as domestic waste. Proper disposal of this product contributes to protecting the environment. For more information on product recycling, contact the local authorities, domestic waste authorities or the dealer where the product was purchased.
For product or parts disposal, follow the Council directives 2002/95/EC and 2002/96/EC as amended and/or application legislative decrees.
The present product or parts cannot be disposed of as urban waste but shall be collected in separate containers (see the waste bin on wheels symbol with an “X” on the product).
At the time of product disposal, the user shall refer to the waste electrical and electronic equipment (WEEE/RAEE) specification.
The manufacturer guarantees the absence of dangerous substances in the EEA used in conformity to the directive 2002/95/EC.
If the user does not comply with the regulations he/she shall be subject to the penalties foreseen by each member state.
Disconnect electricity and water before disposal.
Cut away the electrical cable to ensure that further use is impossible.
All metal parts are recyclable as they are made of stainless steel.
Recyclable plastic parts are marked with the plastic material symbol.

9. TROUBLESHOOTING

Type of Problem	Possible Causes	Cure
The machine does not turn on.	Main switch not ON.	Turn switch ON.
The machine does not load water	Water valve shut.	Open the hot and/or cold water valve.
	Solenoid-valve filter blocked	Clean the filter
	Overflow pipe not in place	Check the correct placement of the overflow pipe.
	Defective pressure-switch.	Replace pressure-switch.
START button **"A"** flashing (red colour)	See chapter 7 "Alarms".	---
Washing results are unsatisfactory	The washing nozzles are obstructed or the rack does not rotate.	Clean the nozzles carefully, and check the right positioning of the wash-arm, tightening firmly.
	Foam is present.	Use no-foam detergents or reduce the dose in use. Check the rinse-aid dosage.
	Fats or starches not removed.	Insufficient detergent concentration.
	Filters are dirty.	Remove filters, clean with brush under a jet of water and replace in original position.
	Check tank temperature (which must be between 50°C and 60°C).	Adjust the thermostat or check correct heating element operation.
	Wash time insufficient for the type of dirt.	Select a longer wash-cycle, if possible, otherwise repeat the wash cycle.
	Wash water is dirty.	Drain the tank water, clean the filters; refill the tank and replace the filters correctly.
The objects are not properly dried.	Not enough rinse aid.	Increase dosage by turning the dispenser screw (see par. "Rinse aid dispenser").
	The rack is not suitable for the objects.	Use the suitable rack which gives the objects an inclined position so that water can rinse away.
	The washed items may have been sitting in the wash chamber too long.	As soon as the cycle stops, remove the rack with the objects so that they can dry more quickly in the air.
	Rinse temperature under 80°C.	Check the boiler thermostat temperature.
	Surface of objects too rough or porous for material wear.	Replace type of the objects used. If the dirt on the object is dry and old, soak before washing.
Streaks and spots on glasses and dishes	Too much rinse-aid chemical.	Reduce the rinse aid amount by turning the micrometric dispenser screw (see par. 2.4 "Rinse aid dispenser").
	Too hard water.	Check the water quality. Water must not exceed 5-8°f in hardness
The machine suddenly stops during operation.	The machine is connected to an overload device.	Connect the machine on a own overload device (call Service).
	A machine safety device was triggered.	Check the electrical devices (call Service).
The machine stops during the wash stage and starts refilling water.	The previous day's water was not changed.	Drain the tank totally and refill.
	Excessive water temperature in tank.	Call Service to check thermostat and pressure-switch.
	Defective pressure switch.	

N.B.: For any other question, please contact your Service provider.
The manufacturer has right to modify any technical characteristics without prior notice.