# MANUALE ISTRUZIONE PER LAVASTOVIGLIE PROFESSIONALI P.2

## INSTRUCTION MANUAL FOR PROFESSIONAL DISHWASHERS P.19

# MANUEL D' INSTRUCTIONS POUR LAVE-VAISSELLE A USAGE COLLECTIF P.37

## BEDIENUNGSANLEITUNG FUR PROFESSIONELLER GLÄSER UND GESHIRRSPÜLMASCHINE S.53

## MANUAL DE ISTRUCCIONES PARA LAVAVAVAJILLAS PROFESIONAL P.71

Istruzioni originali - Original instructions – Instructions originales – Originalbetriebsanleitung - Instrucciones originales MANUALE « A » STANDARD ECO REV03 25/10/2019



### **INSTRUCTION MANUAL FOR PROFESSIONAL DISHWASHERS**

We thank you for purchasing our dishwasher.

You are recommended to read all the instructions given in this manual very carefully to understand the best and correct way to use the dishwasher.

### TECHNICAL INSTRUCTIONS:



These instructions are for qualified technicians who install, commission, test and possibly carry out maintenance on the dishwasher.

The installation technician shall make sure the user has understood the contents of the instruction manual, has understood how the machine works properly and knows how to load the baskets with crockery and glasses correctly.

#### **USER INSTRUCTIONS:**



They give operational advice, descriptions of the controls and how to clean and service the dishwasher correctly.

WARNINGS



THE USER IS RESPONSIBLE FOR THE LEGAL FULFILMENTS CORRELATED TO THE INSTALLATION AND USE OF THE PRODUCT. IF THE PRODUCT IS NOT INSTALLED OR USED CORRECTLY, OR SUITABLE MAINTENANCE IS NOT CARRIED OUT, THE MANUFACTURER CANNOT BE HELD LIABLE FOR ANY BREAKAGES, MALFUNCTIONS, DAMAGES TO PROPERTY OR INJURIES TO PEOPLE THAT COULD OCCUR.



ALWAYS UNPLUG THE DISHWASHER FROM THE MAINS SOCKET BEFORE STARTING ANY MAINTENANCE WORK. IF THIS IS NOT POSSIBLE, IF THE MAINS SWITCH IS HIDDEN BEHIND THE MACHINE OR FAR AWAY FROM WHOEVER CARRIES OUT THE WORK, YOU MUST PUT UP A SIGN ON THE EXTERNAL MAINS SWITCH AFTER TURNING IT OFF TO WARN OTHERS THAT MAINTENANCE WORK IS IN PROGRESS

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# **1 - SAFETY AND OPERATIONAL WARNINGS**



THIS MANUAL CONSTITUTES AND INTEGRAL PART OF THE DISHWASHER; IT MUST ALWAYS BE PRESERVED INTACT AND KEPT TOGETHER WITH THE MACHINE.

POSITIONING, CONNECTIONS, ACTIVATION AND TROUBLESHOOTING, AND SUBSTITUTION OF THE POWER CABLE MUST **BE PERFORMED BY QUALIFIED PERSONNEL**.

THE DISHWASHER IS INTENDED EXCLUSIVELY FOR PROFESSIONAL USE AND MUST BE USED BY AUTHORIZED PERSONNEL. IT IS DESIGNED TO WASH DISHES (PLATES, CUPS, BOWLS, TRAYS, SILVERWARE) AND SIMILAR ITEMS USED IN GASTRONOMIC SECTORS AS WELL AS IN THE PUBLIC CATERING BRANCH, AND IN CONFORMITY TO THE INTERNATIONAL ELECTRICAL AND MECHANICAL SAFETY (CEI-EN-IEC 60335-2-58/61770) AND ELECTROMAGNETIC COMPATIBILITY (CEI-IEC-EN 55014-1/-2, 61000-3;4, 50366) NORMS.

THE MANUFACTUIRER **DECLINES ANY RESPONSIBILITY** FOR DAMAGE TO PERSONS OR THINGS CAUSED **BY FAILURE TO OBSERVE** THE INSTRUCTIONS PRESENT IN THE MANUAL, **INCORRECT USE**, **TAMPERING**, EVEN WITH A SINGLE PART OF THE MACHINE, AND THE USE OF **NON-ORIGINAL SPARE PARTS**. IN CASE OF DAMAGE OF THE POWER SUPPLY CABLE, IT MUST BE REPLACED ONLY BY MANUFACTURER OR BY AUTHORIZED CUSTOMER CENTER AND BY QUALIFIED TECNICIANS.



THE GROUNDING CONNECTION IS OBLIGATORY, IN ACCORDANCE WITH THE METHODS PRESCRIBED BY THE ELECTRICAL SYSTEM'S SAFETY NORMS.

THIS MACHINE IS MARKED IN CONFORMITY TO THE EUROPEAN DIRECTIVE **2002/96/EC**, WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEE).

ENSURING THAT THIS PRODUCT BE DISPOSED OF IN A PROPER MANNER CONTRIBUTES TO THE PREVENTION OF POTENTIAL NEGATIVE HEALTH AND ENVIRONMENTAL CONSEQUENCES. WE DECLARES THAT THE EMISSION SOUND PRESSURE LEVEL LPA IS 62 DB/A WITH AN UNCERTAINTY EQUALS TO KPA  $\pm$  1 DB. SOUND POWER LEVEL IS LWA 73.79 WITH ITS UNCERTAINTY EQUALS TO KWA  $\pm$  1 DB

THE A SYMBOL UPON THE PRODUCT, OR UPON ITS ACCOMPANYING DOCUMENTATION, INDICATES THAT THIS PRODUCT MAY NOT BE TREATED AS DOMESTIC WASTE, BUT RATHER MUST BE TAKEN TO A COLLECTION FACILITY WHICH IS SUITABLE FOR THE RECYCLING OF ELECTRIC AND ELECTRONIC EQUIPMENT. DISCARD THIS PRODUCT IN CONFORMITY TO THE LOCAL NORMS REGARDING WASTE DISPOSAL. FOR MORE INFORMATION REGARDING THE TREATMENT, SALVAGE AND RECYCLING OF THIS PRODUCT, CONTACT YOUR COMPETENT LOCAL OFFICES, YOUR LOCAL WASTE COLLECTION SERVICE PROVIDER OR THE POINT OF SALE IN WHICH THE PRODUCT WAS PURCHASED.



DO NOT INSERT SOLVENTS SUCH AS ALCOHOL OR TURPENTINE INTO THE MACHINE, WHICH COULD CAUSE AN EXPLOSION. DO NOT INSERT DISHES WITH ASH, WAX OR VARNISH RESIDUES INTO THE MACHINE.



NEVER USE THE DISHWASHER OR ITS PARTS AS A STEPLADDER OR SUPPORT FOR PERSONS, THINGS OR ANIMALS.

LEANING OR SITTING UPON THE DISHWASHER'S OPEN DOOR COULD CAUSE AN OVERTURN WITH CONSEQUENT DANGER TO PEOPLE IN THE PROXIMITY. IN ORDER TO AVOID TRIPPING UPON IT, DO NOT LEAVE THE DISHWASHER DOOR OPEN.



DO NOT DRINK THE RESIDUAL WATER WHICH MAY BE PRESENT WITHIN THE DISHES OR THE DISHWASHER ITSELF AFTER A WASH CYCLE.



THE MACHINE IS NOT SUITABLE TO BE USED BY MINORS, AND BY PEOPLE WITH REDUCED PHYSICAL, SENSORIAL OR MENTAL CAPABILITIES, WHO LACK THE NECESSARY EXPERIENCE AND KNOWLEDGE FOR ITS PROPER OPERATION.THE USE OF THE MACHINE IS PERMITTED TO THESE PEOPLE EXCLUSIVELY UNDER THE SUPERVISION OF A PERSON IN CHARGE OF THEIR SAFETY.



After cleaning the appliance at the end of the day, make sure no metal foreign bodies are left inside it, which could cause internal rusting. Traces of rust could also come from non-stainless cutlery/crockery, unsuitable detergents, from damaged wire baskets, scouring pads or metal sponges or renegeration salt spilled on the bottom of the tank.

# 1.1 GENERAL WARNINGS

Keep the instruction handbook near the dishwasher for future consultation.

#### Read the handbook carefully before installing and using the dishwasher for the first time.

# If the electrical and plumbing systems have to be adapted to install the dishwasher, these modifications must be carried out by authorised professionals.

• The dishwasher is a professional machine. It must be used by adult and authorised personnel. It must be installed and repaired exclusively by a qualified technical assistance service. The manufacturer declines all forms of responsibility for improper use, maintenance and repairs.

• This dishwasher must not be used by children or anybody who has restricted physical, sensorial or mental capacities or by anybody who has not been appropriately trained or who is not properly supervised.

• The door must be guided by hand when opening and closing it.

• Make sure the dishwasher does not sit on the power supply cable or on the filling and draining hoses. Adjust the support feet of the machine to set it level.

• Do not stand on the appliance or any parts of it to reach higher places, because it is not designed to take the weight of people, but just the weight of the basket for the crockery and cutlery to be washed.

• The dishwasher is designed only and exclusively to wash plates, glasses and various crockery soiled with residues of human food. Do NOT use it to wash objects soiled with petrol, paint, pieces of steel or metal, fragile objects or objects made of material that will not withstand the washing process. Do not use acid or alkaline corrosive chemical products or solvents or chlorine based detergents.

• Do not open the doors of the dishwasher while it is working. The dishwasher is equipped with a safety device that will immediately stop it to avoid the leakage of water if the doors should be opened accidentally. Always remember to switch the dishwasher off and to empty the tank before accessing it to clean it or for any other reason.

• When you have finished using the dishwasher at the end of the day and when you need to carry out any form of maintenance on it, you must disconnect the dishwasher from the mains power supply by switching the service switch and the mains power switch on the wall off and shut off the water supply tap.

• The user must not carry out any repairs or maintenance work on the dishwasher. These jobs must be carried out by qualified and authorised personnel.

• Any assistance required on this dishwasher must be carried out by authorised personnel.

NB: Use exclusively original spare parts, otherwise the product warranty issued and the manufacturer's responsibility will become void.

#### • Do not use old water filling hoses, but exclusively new filling hoses.

• The following fundamental rules must be observed when using this appliance:

1) Never touch the appliance with wet hands or feet.

2) Never use the appliance with bare feet.

3) Do not install the appliance in workplaces where it could get sprayed/splashed with water.

• Do not put your bare hands into water containing detergent. If you do, wash them thoroughly under running water straightaway.

• Strictly follow the manufacturer's instruction handbook for the cleaning operations.

• This appliance is designed to work in a workplace with a maximum ambient temperature of 35°C, in a suitable area where the temperature is never lower than 5°C.

• Do not use water to extinguish fire on electrical parts.

• After disconnecting the power supply, only qualified personnel may access the control panel.

• The machine has a protection rating against accidental water splashes of IPX1; it is not protected against pressurised water sprays; you are therefore recommended not to use pressurised cleaning systems.

ATTENTION: YOU MUST WAIT 10 MINUTES AFTER SWITCHING THE MACHINE OFF TO CLEAN IT INTERNALLY.

ATTENTION: IT IS FORBIDDEN TO PUT YOUR HANDS INTO THE TANK AND/OR TO TOUCH THE PARTS AT THE BOTTOM OF THE TANK DURING AND/OR AT THE END OF THE WASH CYCLE.

NB: The manufacturer declines all forms of responsibility for personal injuries or damage to property deriving from the failed observance of the instructions given above.

# 1.2 VERIFY



#### DISHWASHER WITHOUT WATER SOFTENER



TEMPERATURE / TEMPERATUR MIN. 45°C – MAX 55°C PRESSIONE / PRESSURE / DRUCK MIN. 2 – MAX 4 kPa/Bar DUREZZA / HARDNESS / DUREZA / WASSERHÄRTE MIN. 7° - MAX 12°F / MIN. 5° - MAX 7°dH

SE LA DUREZZA DELL' ACQUA E' SUPERIORE A 12°F / 7° dH INSTALLARE UN ADDOLCITORE ESTERNO IF WATER HARDNESS IS HIGHER THAN 12°F / 7° dH INSTALL AN EXTERNAL WATER SOFTENER SI LA DURETE DE L' EAU EST SUPERIEUR A 12°F / 7° dH INSTALLER UN ADOUCISSEUR EXTERNE LIEGT DIE WASSERHÄERTE UBER 7° dH. RATEN WIR EINEN EXTERNEN WASSERENTHÄRTER ZU INSTALLIEREN SI LA DUREZA DEL AGUA ES SUPERIOR A 12°F / 7° dH INSTALAR UN DESCALCIFICADOR

H SCARICO / DRAIN / VIDANGE / ABFLUSS / DESAGÜE: MAX 10 CM – CAPOT/HOOD/ DURCHSCHB MAX 20 CM



DISHWASHER WITH WATER SOFTENER



TEMPERATURE / TEMPERATUR MAX 30°C PRESSIONE / PRESSURE / DRUCK MIN. 3 – MAX 4 kPa/Bar DUREZZA / HARDNESS / DUREZA / WASSERHÄRTE MIN. 7° - MAX 26°F / MIN. 5° - MAX 15°dH

USARE SALE DA RIGENERAZIONE E RIEMPIRE IL CONTENITORE IN VASCA PERIODICAMENTE USE REGENERATING SALT AND PERIODICALLY FILL THE CONTAINER IN THE WASHTANK UTILISER SEL REGENERANT ET LE VERSER DANS LE CONTENEUR DE LA CUVE RÉGULIÈREMENT REGENERATION SALZ IN DEN BEHAELTER FULLEN USE SOLO SAL PARA REGENERACION Y VERTER CON FRECUENCIA EN EL CONTENEDOR DE LA CUBA

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BRILLANTANTE / RINSE AID / PRODUIT RINCAGE / ABRILLANTADOR / KLARSPÜLER TUBO TRASPARENTE, TUYAU TRANSPARENTE, TRANSPARENT PIPE, TRANSPARENT SCHLAUCH DETERSIVO / DETERGENT / SPEULMITTEL (NON STANDARD-OPTION) TUBO ROSSO, RED PIPE, TUYAU ROUGE, ROT TUBE, TUBO ROJO



#### IF THREE-PHASES

NON INVERTIRE LA FASE CON IL NEUTRO (BLU) NE PAS INVERSER LA PHASE AVEC NEUTRE (BLEU) DON'T REVERSE THE PHASE WITH THE NEUTRE (BLUE) KEINE ÄNDERUNGEN BITTE !!, DREHSTROM MIT NULLEITER (BLAU) NO INVIERTA LA FASE CON EL NEUTRO (AZUL)

IF WASH PUMP IS THREEPHASE / SI POMPE LAVAGE TRIPHASE / BEI DREIPHASENPUMPE / SI BOMBA LAVADO TRIFASICA: VERIFICARE IL SENSO DI ROTAZIONE, VERIFY THE MOTOR ROTATION, CONTRÔLER LE SENS DE ROTATION, PRÜFUNG DER DREHRICHTUNG, REVISE LA ROTACION.



ALWAYS UNPLUG THE DISHWASHER FROM THE MAINS SOCKET BEFORE STARTING ANY MAINTENANCE WORK. IF THIS IS NOT POSSIBLE, IF THE MAINS SWITCH IS HIDDEN BEHIND THE MACHINE OR FAR AWAY FROM WHOEVER CARRIES OUT THE WORK, YOU MUST PUT UP A SIGN ON THE EXTERNAL MAINS SWITCH AFTER TURNING IT OFF TO WARN OTHERS THAT MAINTENANCE WORK IS IN PROGRESS.

# 2 - INSTALLING THE DISHWASHER / TECHNICAL SPECIFICATIONS

#### TECHNICAL INSTRUCTIONS:



These instructions are for qualified technicians who install, commission, test and possibly carry out maintenance on the dishwasher. The installation technician shall make sure the user has understood the contents of the instruction

manual, has understood how the machine works properly and knows how to load the baskets with crockery and glasses correctly.

# 2.1 TECHNICAL SPECIFICATIONS

Water supply temperature	°C	55
Water supply temperature (model with watersoftener)	°C	Max 30
Water supply hardness	°F	7 – 12
Water supply pressure	kPa	200/400
Water supply pressure (model with watersoftener)	kPa	300/400
Rinse cycle water consumption at 200 kPa	T	2,4/2,6
Wash water temperature	°C	50 - 60
Rinse water temperature	°C	82 - 85
Net weight	kg	Min.27 Max 131
Ambient temperature max	°C	40
Power cable type	<har►< td=""><td>H07RN-F</td></har►<>	H07RN-F
Refer to the rating label located on the front cover of this manual or on the right side panel of the		

Refer to the rating label located on the front cover of this manual or on the right side panel of dishwasher for the voltage and total power.

#### **2.2 POSITIONING**

Take the dishwasher to the place of installation, unpack it, check the integrity of the appliance and its components and inform the transporter in writing immediately if any damages should be noticed.

After unpacking, make sure the appliance has not been damaged during transport.

To dispose of the packing materials, you are recommended to dispose of the materials listed below according to standards currently in force:

• a wooden pallet

- a nylon bag (LDPE)
- multiply card
- Polypropylene strapping (PP)

Remember that the manufacturer does not organise or manage the differentiated disposal of the appliance at the end of its service life.

#### **2.3 WATER CONNECTION**

Temperature of the supply water	°C	55
Temperature of the supply water (for versions with softener)	°C	Max 35
Hardness of the supply water	°F	7 – 12
Pressure of the supply water	kPa	200/400
Pressure of the supply water (for versions with softener)	kPa	300/400

Connect the water supply to the machine using a stop valve that is capable of shutting-off the flow of water quickly and completely.

Make sure the pressure of the mains water is between the values written on the table.

If it is lower than 200 kPa (dynamic pressure), to ensure the perfect operation of the machine, it is mandatory to install a pressure booster pump (on request, the machine can be supplied with a built-in pressure booster pump).

If the mains pressure is higher than 400 kPa, you need to install a pressure reducer.

For water with average water hardness above 12°f, it is mandatory to use a scale inhibitor. On request, the machine can be supplied with a built-in scale inhibitor.

If the machine is equipped with a scale inhibitor, you need to regularly regenerate the resins using special regeneration salt. The salt compartment can take approximately 1 kg of grain salt.

The salt compartment is located on the bottom of the tank. Take the basket out, unscrew the cap and pour salt in using the funnel supplied with the machine. Before screwing the cap back on, remove any spilled salt near the opening. Top-up with salt when there is no water in the tank so that the washing water cannot get into the water softener. Always unplug the machine from the mains power supply before doing this operation. Remember to plug the appliance back into the mains socket after finishing the job.

The first time you use the appliance, after adding the salt, add some water to the salt container.

NB: For water with hardness above 12°f, if there is no scale inhibitor, the damages caused by scale will not be covered by the warranty.

The temperature of the supply water must be between the values indicated on the table.

Each machine is supplied with a water filling hose with threaded 3/4"fitting.

The drainage hose is to be connected, after adding a siphon, directly to the drains. The water falls freely into the drains, therefore the point where it is connected to the drain outlet must always be below the level of the wash tank. If the existent drain point is above this level, a suitable drain pump has to be installed (optional). Do not fit the drain hose into the drains of sinks, bathtubs etc.

For versions with built-in osmosis system, install the carbon or mesh filter supplied on the water supply cock. The water hardness must be between 7 and  $12^{\circ}$ F and the maximum temperature  $30^{\circ}$ C.

The filters must be replaced at least twice a year.

Failed observance of these parameters will cause the internal osmotic membrane to deteriorate rapidly.

Make sure the water hardness is between 7 and 12°F, otherwise install a water softener to prevent damages caused by scale, which are not covered by warranty.

DISHWASHERS WITH SOFTENER ADJUSTMENTS	Α	В	
A = Hardness of inlet water in °F B = Every how many wash cycles the automatic regeneration cycle should start.	14 °F 22 °F 32 °F 37 °F 42 °F	100 70 50 40 30	
	52 °F	25	

 $1^{\circ}$  FRENCH = 0.56° German = 0.7° British = 10 p.p.m.

#### 2.4 ELECTRICAL CONNECTION

The electrical connection must be carried out according to technical standards currently in force.

Make sure the measured mains voltage matches that written on the technical data nameplate of the dishwasher.

You have to fit an appropriate omnipolar protection circuit breaker switch suitable for the input of the dishwasher.

This switch must be used exclusively for this utility and installed right next to it.

Make sure the electrical systems are suitably earthed.

The machine also has a connection, at the rear bottom part, marked with the equipotential symbol 🖄 that is used to connect various appliances together equipotentially (check standards on electrical systems).

FOR MACHINES WITH THREE-PHASE POWER SUPPLY, BE CAREFUL NOT TO INVERT THE PHASE WIRES WITH THE NEUTRAL WIRE.

ATTENTION ! MAKE SURE THE THREE-PHASE PUMPS TURN IN THE CORRECT DIRECTION (where installed).



IF THE POWER SUPPLY CABLE SHOULD GET DAMAGED, IT MUST BE REPLACED EXCLUSIVELY WITH A NEW ONE FROM THE MANUFACTURER OR FROM AN AUTHORISED SERVICE CENTRE AND BY QUALIFIED TECHNICIANS.



The thermostats are preset at the following temperatures: at 55°C for wash water in tank and at 85°C for rinse water in boiler.

Whilst tank thermostats can be either fixed or adjustable, boiler thermostats are only adjustable. Act on the thermostat knob to increase o decrease temperature degrees (see image).

### **3 - RINSE AID AND DETERGENT DISPENSING**

Only use detergents and rinse aids specific for industrial dishwashers. Do not use normal washing up liquid. Do not use detergents for domestic dishwashers.

Ask a specialist in chemical products for the correct choice of products to use and their quantities.

ATTENTION! MACHINE LIVE: Remove the front panel of the dishwasher to adjust the dispensers.





Hood dishwashers lower panel remove screws

#### 3.1 RINSE AID QUANTITY - RINSE AID DISPENSER

The rinse aid dispenser is always installed and there are two types: hydraulic (3) or peristaltic (1). They both work automatically.



The hydraulic dispenser (3) exploits the rinsing pressure to activate itself, while the peristaltic dispenser (1) is electrically operated.

Make sure the CLEAR product suction hose is inserted into the container of the rinse aid products and that the little filter is installed and also the weight on the hose (2).

To enable it, simply start the machine and run some complete wash cycles.

Adjustments: For each rinse cycle, the rinse aid draws a quantity of rinse aid product.

In the peristaltic dispenser (1), the minimum flow rate is obtained by turning the adjustment screw anti-clockwise, while the maximum flow rate is obtained by turning it clockwise.

In the hydraulic dispenser (3), the minimum flow rate is obtained by turning the adjustment screw clockwise, while the maximum flow rate is obtained by turning it anti-clockwise.

The dispenser is preset to intake approximately 5 cm of hose (0.70g.)

Too much rinse aid would leave the dishes streaky and would generate foam in the wash tank.

Dishes with drips of water and rather slow drying time mean that the quantity of rinse aid is insufficient.

Before you establish the correct quantity of the surfactant, you should test the hardness of the water in advance.

(If the hardness of the water is above 12°f, you need to install a softener upstream from the supply solenoid valve of the machine). Seeing as the quantity varies considerably based on the concentration of the product and on the formula, the quantities that we have given are merely indicative and are just a rough idea.

To dispense the exact quantity of product, once intaken, take the clear hose out of the surfactant container and measure the movement of the water column inside it.

# 3.2 DETERGENT QUANTITY – MANUAL DISPENSING OR USING A DISPENSER (OPTIONAL) MANUAL

Following the instructions of the detergent supplier, put the required quantity of liquid detergent into the wash tank, which is approximately 20g every 5 wash cycles. The quantity may vary according to the type and quantity of water. Use exclusively specific foam-inhibitor detergents, in the concentrations indicated.

#### LIQUID DETERGENT DISPENSER (OPTIONAL)



In the detergent dispenser (1) the minimum flow rate is obtained by turning the adjustment screw anti-clockwise, while the maximum flow rate is obtained by turning it clockwise; bear in mind that 1 g. of detergent takes up a volume of approximately 8 cm of hose.

Make sure the RED product intake hose is inserted into the detergent tank and that the little filter has been installed as well as the weight on the hose (2).

For the type and quantity of detergent to use, ask your supplier of chemical products.

Too much detergent will not only generate foam in the wash tank, but will also leave the dishes streaky.

### **4 - PREVENTIVE CHECKS**

Check the following before using the dishwasher:

WATER LEVEL

While the wash tank is filling, the water should stop flowing when its level is at least 1 cm. from the spill level of the overflow device.

The filling solenoid valve should start to work again when the level of water is 2 cm. above the heating element in the tank. WASHING AND RINSING ARMS

The washing and rinsing arms must turn freely without any interference and all the nozzles must work correctly.

TEMPERATURES The temperatures of the rinse and washing water must be those written on the table.

DISPENSER

For each cycle, the dispenser should intake the correct amount of rinse aid and/or detergent.

WASHING RESULTS

The washing results should ensure that every possible trace of solid waste has been removed from the surface of the dishes. At the end of the cycle, the perfectly clean dishes should dry in a couple of minutes through evaporation once the basket is taken out of the machine.

### **5 - OPERATIONAL INSTRUCTIONS**

		Check:	
Open the mains water cock (utility).	the level of detergent and rinse aid in the containers.	that the filters are in the correct position, the spray arms turn and that there are no foreign bodies in the	Switch the main ON/OFF switch on (utility)
		dishwasher. Make sure the overflow sits in the drain hole properly	UN OF

#### 5.1 – DAILY USE FOR MODELS STANDARD AND PS

The panel shown in the manual and in the graphics may contain functions which are not present on your machine	What to do and what happens	
	Activate the wall switch, open the door, insert the overflow and close the door: Press the <b>on/off</b> button. The boiler and tank water-loading led indicator light turns on. Once the boiler and tank have been loaded, the boiler led indicator light	
	Insert the rack	

	LOADING THE DISHWASHER The basket can hold 12 dishes or 18 plates. Remove any solid leftovers from the plates (bones, peel, nuts etc); leave the plates to soak in cold water if there are any stubborn leftovers, such as dried cheese, egg etc. Put the glasses in the basket with their stem upwards. Use the cutlery basket for cutlery. Put the cutlery loose in the basket, preferably with the handle at the bottom. Be careful not to injure yourself on the fork prongs and knife blades.
	Wait for 15 minutes after the boiler led indicator light to turn off.
	CHOOSING A WASH PROGRAM (not available on all models) You can select the wash program using the cycles selector.
	To start the wash cycle, press the cycle button.
	urns on. If the door is opened during the cycle, the program stops. Once
the door has been closed again, the program resets itself; to r	Once the program has finished, the wash cycle led indicator light turns off and the boiler led indicator light turns on.
	Remove the rack

5.6 – DRAIN	
UP	Models without drain pump: Turn the machine off by pressing , open the door, remove the overflow and wait for the tank to empty. Place the overflow back into the tank and close the door. Deactivate the general wall switch.
S	Models with drain pump: Open the door, remove the overflow pipe and close the door.Turn the machine off by pressing the on/offin order to initiate the emptying of the tank automatically. Drain pump will be activated until the total drain of the tank and the wash cycle lamp will be on. In order to reactivate the machine it is therefore necessary to place the overflow back into the tank, close the door and press the on/off button. Otherwise, if finished using the machine, deactivate the general wall switch.



Top up with salt **when there is no water in the tank** so that the washing water cannot get into the water softener. Always unplug the machine from the mains power supply before doing this operation. Remember to plug the machine back into the mains socket after completing the operation.

#### Total drainage at the end of the day

Turn the machine off by pressing the **on/off button**  $\bigcirc$ , open the hood, remove the overflow and wait for the tank to empty. Take the filter out and clean them as well as the washing tank with water and dishwasher products (**do not use improper products**). Place the overflow back into the tank and close the hood. Unplug the main switch and shut off the water inlet tap.

To operate the machine anew the cleaned filters and the overflow must be put back into the tank and the **on/off button** O pressed. In case of last service of the day, unplug the main switch and shut off the water inlet tap.

#### 6 - MAINTENANCE AND CLEANING

Even though the dishwasher does not require any special programmed maintenance in particular, we still recommend you have it checked out by a specialized technician twice a year.

**N.B:** The manufacturer cannot be held liable for intentional damages or damages caused by carelessness, negligence or from the failed observance of the prescriptions, instructions and standards or from incorrect connections or plumbing. The dishwasher complies with the protection rating **IPX1** and it is **forbidden** to use a direct jet of water to clean it.

#### **CLEANING THE FILTER THROUGHOUT THE DAY**

For heavy use, you are recommended to clean the filter every 30-40 cycles while the machine is in working conditions. To do this, follow the "emptying the tank" instructions.

Remove the filter (1) (simply lift it out of its seat as illustrated), making sure large bits and pieces do not fall into the tank; clean the filter and rinse it thoroughly.

Also clean the internal filter (2) and remove any bits and pieces inside it.

Put the filter back into its seat correctly (1). Do not use pointed or sharp tools to do this.

Clean away any scale to avoid possible build-up. Clean the surface carefully and frequently using a damp cloth. Use neutral and non-abrasive detergents that do not contain chlorine-based substances or products that could corrode and damage stainless steel.

Do not use the afore-mentioned products to clean the floor under the dishwasher either, or even near it, in order to prevent vapours or drips from causing damage to the steel surface.

To clean the tank and the walls, you are recommended to use a damp cloth or a shammy leather cloth, with soapy water and a mild detergent. Never user scouring pads or metal sponges.



#### **Periodic checks**

Disassemble the spray arms (bottom and top 2-3), by unscrewing the central screw (1).

Clean the holes and the nozzles under clean running water, <u>do not use any pointed or sharp tools that could damage them.</u> Fit the spray arms back in place.



Clean the machine internally using a damp cloth and neutral detergent then rinse and dry thoroughly.



- Never use the following types of products to clean the tank and the steel surfaces: - Products containing chlorides or hydrochloric acid
  - Bleach
    - Products for cleaning silver
  - Scouring pads or metal sponges

NB: the incorrect use of the afore-mentioned products may cause rust marks on the surfaces.

#### Long-term stoppage

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If the dishwasher is not going to be used for quite some time, you have to empty the detergent and rinse aid dispensing device to avoid crystallizations and damages to the pumps: remove the priming pipes from the detergent and rinse aid containers and soak them in a container of clean water, run some wash cycles and empty the machine completely.

To finish, switch off the main on/off switch and shut off the water inlet tap; only put the detergent and rinse aid priming pipes back into their containers when you start the machine again, making sure not to invert them (red pipe=detergent; clear pipe = rinse aid). Do not leave the dishwasher switched on if it is not used for some time or if the operator is not able to monitor it directly.

### 7 - ERRORS DISPLAYED/PROBLEMS

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION	
THE MAINS LIGHT FAILS TO SWITCH ON	Mains not connected	Check the electric mains connection.	
THE WASH CYCLE FAILS TO START	The dishwasher has still not filled.	Wait for the triangular Led to switch on.	
	The holes of the spray arms are clogged or scale is obstructing them.	Dismantle and clean the spray arms.	
	Not enough or unsuitable detergent or rinse aid	Check the type and quantity of detergent.	
POOR WASHING RESULTS	Plates/glasses not positioned correctly.	Arrange the plates/glasses correctly.	
	Too low wash temperature	Check the temperature on the display; if it is below 50°, call the technical assistance service.	
	The set cycle is unsuitable	Increase the wash cycle duration, especially if the crockery/cutlery is particularly dirty or there are stubborn leftovers to clean.	
INSUFFICIENT RINSING	The spray nozzles are clogged. Scale in boiler.	Check if the nozzles are clean and if the softener (if installed) works correctly.	
THE GLASSES AND CUTLERY ARE	The rinse aid is unsuitable or is not dispensed correctly.	Check the rinse aid container and if it is suitable for the type of mains water. If the problem	
STAINED	Water hardness above 12°dF or high dissolved salt content.	consists, contact the technical assistance service.	
WATER IN TANK AFTER DRAINING	The drain pipe is not positioned correctly or is partially obstructed.	Check if the pipe and the drain of the dishwasher are obstructed and if the drain is positioned too high up; refer to the connection diagram.	