ΕN

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WARNING

CAREFULLY READ THE INSTALLATION, OPERAT-ING AND MAINTENANCE INSTRUCTIONS BEFORE INSTALLING THIS APPLIANCE. INCORRECT INSTALLATION, ADAPTATIONS OR ALTERNA-TIONS COULD CAUSE DAMAGE TO PROPERTY OR INJURY TO PERSONS. MALICIOUS DAMAGE, DAMAGE DUE TO NEGLIGENCE, OR TO FAILURE TO COMPLY WITH INSTRUCTIONS AND REGULA-TIONS, OR TO INCORRECT CONNECTIONS OR UNAUTHORISED TAMPERING INVALIDATE ANY WARRANTY AND RELIEVE THE MANUFACTURER OF ALL LIABILITY.

 Carefully read this instructions booklet, as it contains important advice for safe installation, operation and maintenance. Keep this booklet to hand in a safe place for future

reference by other operators.

- 2. Installation should be carried out by qualified engineers, in accordance with current regulations and with the manufacturer's instructions.
- 3. The appliance should only be used by persons specifically trained in this operation.
- 4. Switch off the appliance in the event of failure or malfunctioning.

Only have the appliance repaired by a service centre authorised by the manufacturer and ask for original spare parts.

A1 HANDLING

Use suitable means to move the appliance: a lift truck or fork pallet trucks (the forks should reach more than halfway beneath the appliance).

A2 UNPACKING



Wear protective gloves to unpack.

Lift the appliance using a lift truck, remove the base and position the appliance





where it is to be installed.





Remove the protective film and ensure that the packaging material is disposed of correctly in compliance with the regulations in force in the country where the product is to be used.

A3 DISPOSAL

All the packaging materials are environment friendly. They may be kept without danger, recycled or burned in a special waste incineration plant. Recyclable plastic components are marked as follows:

polyethylene	external wrapping film, instruction bag.
polypropyl- ene polystyrene foam	top packaging panels, straps protective surround ele- ments.

Wood and cardboard components may be disposed of according to local regulations in force. Appliances that have reached the end of their service life should be suitably disposed of. The appliance should be dismantled according to regulations in force. All metal parts are in stainless steel (AISI 304) and are removable. Plastic parts are marked with the symbol of the material.

Α

A4 TECHNICAL DATA

MODEL		LU7 / LU700 / WTU40
Supply voltage:	V	400415- 3N~
- convertible to	V	220240- 3~
- single-phase version	V	220240 1N~
Frequency	Hz	50 or 60
Max. power input	kW	9.9 / 12.1 (*)
Boiler heating elements	kW	9
Tank heating elements	kW	2.2
Water supply press. for atmospheric boiler versions	kPa [bar]	50700 [0,57]
Water supply press. for pressure boiler versions	kPa [bar]	200300 [23]
Water supply temperature	°C	50
Water supply hardness for models without incorporated continuous water softener	°f/°d/°e	14/8/10 max
Electric conductivity of water for models without incorporated continuous water softener	μS/cm	< 400
Water supply hardness for models with incorporated water softener	°f/°d/°e	40/22,4/28 max
Concentration of chlorides in water	ppm	< 20
Rinse cycle water consumption	I	3.8
Boiler capacity	I	12
Tank capacity	I	42
Standard cycle time with water supply at 50°C	sec.	55-90-300
Legal noise level Leq	dB(A)	<68
Protection rating		IPX4
Net weight for models without incorporated continuous water softener	kg	97
Net weight for models with incorporated continuous water softener	kg	100
Power supply cable		H07RN-F
Supply cord diameter (min max. value)	mm	18 - 25
*) = If activated by software, coincidence of tank and boiler heating		

Table 1

0	•				
C	S	С	S	С	S
5X2,5	20 A 3P+N	4X6	32 A 3P	3X10	60 A 1P+N
5X4	32 A 3P+N	4X10	50 A 3P	3X10	70 A 1P+N
-	,	,	,		

Table 2

Standard cycle time may vary should the inlet water temperature and/or the boiler heating elements be different from that indicated above.





- Legend Fig. 4
 A Water inlet pipe with ø 3/4" G fittings
 C Outlet pipe øi 40 mm (^) øi 20 mm (*).
- L
- Power supply
 Pipe inlet for detergents S
- Q Unipotential screw
- (^) Only for model with free-fall drainage
- (*) Only for model with drain pump

BINSTRUCTIONS FOR THE INSTALLER/MAINTENANCE PERSON

Install a disconnecting switch with a capacity at least equal to that given in the technical data table, a 30mA residual current circuit breaker and an overcurrent device (magnetothermal cut-out with manual reset or fuse) between the appliance and the mains power outlet.

The chosen device must be lockable in the open position in case of maintenance.



MOVING THE MACHINE WITH THE DOOR OPEN OR GRIPPING IT WITHOUT TAKING INTO ACCOUNT ITS ACTUAL WEIGHT OR CENTRE OF GRAVITY IS EXPRESSLY FORBIDDEN (DANGER OF TIPPING OVER).

RATING PLATE

The rating plate contains identification and technical data and is located on the right-hand side panel of the appliance (Fig. 5).





B1 WATER CONNECTION

- Position the dishwasher and level the appliance by turning the relative height-adjustable feet (Fig. 5).
- Connect the appliance water supply pipe "A" (Fig. 4) to the mains, fitting a cut-off cock, the filter provided and a pressure gauge between the appliance and the mains (Fig. 6).



 Check that the dynamic water supply pressure, measured between the appliance and the main, is between 200 and 300 kPa for machines with pressure boiler and between 50 and 700 kPa for machines with atmospheric boiler (test while dishwasher tank or boiler is filling with water). If the pressure is too high, fit a suitable pressure reducer on the inlet pipe.

- On the model with free-fall drainage:

connect the waste outlet pipe "C" (Fig. 4) to the main drain pipe, fitting a trap, or place the outlet pipe over an "S" trap set into the floor.

- On the model with drain pump:

position the outlet pipe at a height anywhere between 750 and 1000 mm from the floor.

Check that about 4 litres of water flow out of the outlet pipe during the rinse cycle.

B2 ELECTRICAL CONNECTION





CAUTION THE EARTH AND ELECTRICAL CON-NECTIONS SHOULD BE IN COMPLI-ANCE WITH NATIONAL REGULATIONS.

- Before carrying out the electrical connection, check that the voltage and frequency on the appliance rating plate correspond to those of the mains electricity supply.
- The earth wire at the terminal end must be longer (max. 20 mm) than the phase wires.
- Connect the earth wire of the power supply cable to an efficient earth clamp. The appliance must also be included in a unipotential system, the connection being made through the screw "Q" (Fig. 4) marked with the symbol "☆". The unipotential wire must have a cross section of 10 mm².



Fig. 8

Open the power supply terminal board and insert the jumpers provided as follows: one jumper between terminals 2 and 4 and another between terminals 4 and 6. Using a suitable power supply cable (see technical data table), connect the three phases to terminals 1, 3 and 5, the neutral to terminal 6 and the earth wire to the terminal $\frac{1}{2}$.

Power supply 220...230V 3



Fig. 9

Open the power supply terminal board and insert the jumpers provided as follows: one jumper between terminals 1 and 2, one between terminals 3 and 4 and another between terminals 5 and 6. Using a suitable power supply cable (see technical data table), connect the three phases to terminals 1, 3 and 5 and the earth wire to the terminal $_$.

Power supply 220...230V 1N



Fig. 10

Open the power supply terminal board and insert the jumpers provided as follows: two jumpers between terminals 1, 3, 5 and another two between terminals 2, 4 and 6.

Using a suitable power supply cable (see technical data table), connect the phase and neutral to terminals 5 and 6 respectively and the earth wire to the terminal $_$.

Connections provided for energy control

This appliance is designed for an external energy consumption control.



Connect the energy peak controller across terminals 11 and 12.



CAUTION

A normally open (n.o.) contact of the controller must be connected across terminals 11 and 12. When this contact closes the boiler heating elements are disconnected. Using the dishwasher in these conditions may increase the cycle time.

Safety devices

- An automatic reset thermoamperometric protective device incorporated in the windings of the electric pump cuts off the electricity supply in the case of malfunctioning.
- In the event of water mains failure, a device prevents water in the boiler from returning into the mains.
- An overflow pipe, connected to the drainage outlet, maintains the water in the tank at a constant level.
- On models with a drain pump, a supplementary level control device activates if the main level control device is faulty.

Failure to comply with safety rules and regulations relieves the manufacturer of all liability.

B3 WARNING MESSAGES DISPLAYED ON THE CONTROL PANEL

A1 NO WATER

- Check that the cock is open.
- Check that the water inlet filter is clean.
- Check the minimum mains pressure.
- Check that the overflow pipe is inserted (for appliances without drain pump only).

B1 INEFFICIENT DRAINAGE

- Check if the overflow has been removed.
- Check for obstruction on the waste outlet pipe and the overflow aperture.

B2 TANK WATER LEVEL TOO HIGH

- Check for obstruction on the waste outlet pipe and the overflow aperture.

E1...E8 CALL THE SERVICE CENTRE

- The appliance continues to operate, but appropriate checks by a technician are recommended.

B4 DETERGENT/RINSE-AID DISPENSERS AND SETTINGS

If the appliance is connected to a water softener or osmotic device, contact the detergent supplier for a specific product.

Peristaltic dispensers (rinse-aid and detergent) require periodic maintenance. The internal hose of the rinseaid dispenser should undergo periodic maintenance (at least once or twice a year).

1. Dishwasher with incorporated detergent dispenser pump (Fig. 12).

Pump "R" dispenses about 0.9 g/s of detergent. When the appliance is filled with water for the first time in the day, it dispenses about 86 g of detergent in 90 sec., thereby providing a concentration of 2 g/l. Pump "R" dispenses about 8 g in 8 sec. at each cycle.

Dispenser operating time may be changed, following the instructions given in the next paragraph.

Insert the hose provided in the kit into the detergent container.

2. Dishwashers with incorporated peristaltic rinse-aid dispenser pump (Fig. 12).

Pump "S" dispenses about 0.1 g/s of rinse-aid. It dispenses 0.4 g in 4 sec. at each rinse.

Dispenser operating time may be changed, following the instructions given in the next paragraph.

Insert the hose provided in the kit into the rinse-aid container.

3. Dishwashers with incorporated rinse-aid diaphragm dispenser pump (Fig. 12).

Pump "T" is installed in appliances with pressure boiler.

Dispensed amounts may be changed according to the instructions given in the paragraph below.

Insert the supplied hose into the rinse-aid container.



Fig. 12

There are two holes (plugged) "O" (\emptyset 5 mm) for introducing the detergent.

These holes may be easily identified from outside by looking for the countersunk marks on the external panel.

Inside the tank there is a hole "P" (\emptyset 10 mm) closed with a plug, which may be used for mounting a liquid detergent injector.

Electrical connections for automatic detergent and rinse-aid dispensers

Terminals are available on the power supply terminal board for the electrical connection of external dispensers working at 220...240 V. Max. power 30 VA.



• Connect the **detergent dispenser** between terminals 7 and 9. These connection points are live for a set time during filling of the tank and at the start of the wash cycle (see paragraph "Setting the dispensers").



 Connect the rinse-aid dispenser between terminals 8 and 9. These connection points are live during filling of the tank and at the end of the rinse cycle for a set time (see "setting the dispensers" paragraph).

MANUAL ACTIVATION

Whenever the detergent containers are replaced, it may be necessary to activate the dispensers manually in order to fill the hoses and eliminate any air.

Simultaneously press the buttons, as shown in the figures below. If necessary, repeat this operation several times.





DETERGENT DISPENSER

DISPENSER RINSE-AID

In the appliances with pressure boiler, the diaphragm dispenser pump may be manually activated by pressing screw "D" (Fig. 12).

B5 SETTING THE DISPENSERS

1) Peristaltic dispensers

All operations should be carried out with the appliance switched on, the door open and no cycle selected.

LEGEND



Increase

Decrease

Confirm or select next parameter

SEQUENTIAL START

Press the indicated buttons simultaneously for 5 seconds:





Display of programming mode:



Initial amount of detergent:



Setting the activation time:



Initial amount of rinse-aid:



Setting the activation time:



Amount of detergent during the cycle:



Setting the activation time:



Amount of rinse-aid during the cycle:

) rai •

Setting the activation time:



Exit from programming mode:



Notes for external dispensers:

 if dE : 18 I the detergent dispenser only operates during wash pump operation; terminals 7-9 of the main terminal board are powered at the same time.

- if *dEE: IBE* the detergent dispenser only operates during filling electrovalve operation for restoring the boiler level; terminals **7-9** of the main terminal board are powered at the same time.
- if **r A i : 5 i** the **rinse-aid dispenser** only operates during **filling electrovalve** operation for restoring the boiler level; terminals **8-9** of the main terminal board are powered at the same time.
- if **r A i : b c the rinse-aid dispenser** only operates during **wash pump** operation; terminals **8-9** of the main terminal board are powered at the same time.

For connections, see the wiring diagram.

Example:

Supposing that an external detergent dispenser has been connected with a tank concentration measuring sensor, a standard setting could be as follows:

 $d \ln z \hat{u}$ the dispenser is not activated during filling of the tank.

dE = 18 i the dispenser is activated during wash pump operation and, thanks to the concentration measured by the conduction sensor, the correct amount of detergent is dispensed.

2) Rinse-aid diaphragm dispenser

To change the dispensed amount, turn $\frac{1}{2}$ on screw "D" accordingly (Fig. 12).

Suggestion: to check the effectiveness of the rinseaid, look at freshly washed glasses against the light. Drops of water remaining on the glass indicate an insufficient amount while streaks indicate an excess.

Changing the detergent/rinse-aid type

If changing to a **different detergent/rinse-aid type** (even one by the same manufacturer), you must rinse the suction and pressure hoses with fresh water before connecting the new detergent/rinse-aid container. Otherwise, the mixing of different types of detergent/rinse-aid will cause crystallisation, which may result in a breakdown of the dosing pump. Failure to observe this condition will invalidate the guarantee and product liability.

B6 MAINTENANCE

- Descale the boiler, the internal surfaces of the tank and the appliance water piping once or twice a year.
- Descale the rinse and wash jets every month using vinegar or a descaling agent.
- The internal hose of the rinse-aid and detergent peristaltic dispenser should undergo periodic maintenance (once or twice a year).

Prolonged period of inactivity

If the dishwasher is not to be used for a long time, proceed as follows:

• Close the water supply cock.

- Completely drain the tank.
- Remove and carefully clean the filters.
- Completely drain the incorporated dispenser hoses, removing them from the containers. Repeat the procedure described in the paragraph "Manual activation" at least 3 times.
- Completely drain the boiler by simultaneously pressing the buttons as shown in the figure.



A buzzer indicates completion of drainage.

• Spread a thin film of Vaseline oil over all the stainless steel surfaces.

Preventive maintenance

The preventive maintenance call may be activated (see service manuals).

Upon reaching the set number of cycles (e.g. 20000),

CAIL: appears on the display.

This message advises calling a qualified technician for a general check-up of the state of the appliance.

INSTRUCTIONS FOR THE USER

Our appliances have been studied and optimised to give high performance. This appliance must be used exclusively for the purpose for which it has been designed, i.e. for washing dishes with water and specific detergents. Any other use is to be considered improper.

This appliance does not carry out the rinse cycle should there be no supply water; it stops all functions with an error message "A1" (also see "Warning messages").

TIPS

- Carry out a couple of cycles without dishes to flush out any industrial grease which has remained in the tank and piping.
- Avoid washing decorated dishes. .
- Do not allow silverware to come into contact with other metals.
- Do not allow food to dry on the dishes.
- Remove large food scraps from the dishes to prevent clogging the filters.
- Pre-wash the dishes by spraying them with cold or lukewarm water, without using any detergent. ٠
- Use automatic dispensers for the detergent.
- If there is no automatic dispenser, pour a non-foaming detergent into the tank when the water has reached the washing temperature.

CONTROL PANEL



Fig. 15

The temperature shown on the display is that of the boiler if the indicator light "E" is on or of the tank if the light "D" is on. The tank temperature is displayed during the wash cycle and the boiler temperature during the rinse cycle.

C1 STARTING

- Open the water supply cock.
- Switch on at the mains.
- Open the door and check that all the components • are in their correct position.
- Close the door and press button "A".



The indicator light of button "A" (Fig. 15) comes on, indicating that the dishwasher is powered and that water is being introduced and heated. The word "FILL" is shown on the display during the entire filling and heating stage:

FILL

For atmospheric versions only:

Warning, this dishwasher does the first tank filling through several consecutive hot rinse cycles, while the display shows the message FILL (flowing). This system let save up to 30% of time than traditional models.

If the door is opened during this stage the message "CLOSE" will appear on the display:



The filling and heating stage has finished when the display shows the tank temperature:





To display the boiler temperature during heating of the tank, open the door and press the button "J" (Fig. 15).



C2 WASH CYCLES

The wash cycle includes one wash with hot water and detergent (min 55 $^{\circ}$ C) and one rinse with hot water and rinse-aid (min 82 $^{\circ}$ C).

Table of times

Standard cycle time with supply water at 50 °C.



A device lengthens the cycle time if the water in the boiler has not reached the minimum temperature for correct rinsing.

The cycle times and the temperature may be personalised (e.g. increase of the rinse time and temperature).

The cycle times should only be set by a specialised technician.

C3 OPERATION

The filling and heating stage has finished when the display shows the tank temperature:



The appliance is then ready for use:

- Open the door.
- Pour the required amount of detergent into the tank (in models without automatic dispenser).
- Insert the rack containing the dirty dishes.
- Close the door and select the suitable wash cycle; the corresponding indicator light comes on and the wash cycle starts:

- Cycle I

For lightly soiled dishes: press button "J" (Fig. 15) (see table of times).



- Cycle II (recommended)

For normally dirty dishes: press button "H" (Fig. 15) (see table of times).



- Cycle III

For very dirty dishes: press button "F" (Fig. 15) (see table of times).



- To stop the wash cycle, just press the selected cycle button or open the door.
- To continue the wash cycle, just press the selected cycle button or close the door. The cycle starts again from where it stopped.
- At the end of the wash, the dishwasher emits a series of beeps and "END" blinks on the display:



Open the door and remove the rack containing the clean dishes.

WARNING

The appliance will not remove burnt food deposits from dishes. Dishes with burnt-on food deposits should be cleaned mechanically/chemically (for example, pre-wash under running water) before putting them in the dishwasher.

Change the water in the tank at least twice a day.

Type of racks and loading

• Wire rack (535 x 550 mm): for trays, small kitchen utensils and servicing dishes.



Fig. 16

• YELLOW rack: for 18 plates with maximum diameter of 240 mm.



• BLUE rack for glasses: the glasses should be placed upside down.



Fig. 18

• YELLOW container for cutlery: insert 15 items, with the handles pointing downwards, in each container.



Fig. 19

• Available as accessories: dividers for glasses and rack for dishes with maximum diameter of 320 mm.

C4 END OF WORK AND DAILY CLEANING

The appliance is designed to carry out an automatic cleaning cycle to help flush out any residues and to guarantee greater health and hygiene:

- Open the door and take out the rack containing the clean dishes.
- Remove the tank filter "C" and the overflow "W".





 Select the drain cycle by pressing button "B" (Fig. 15).



• The message "CLE" ("CLEAN") will be displayed throughout the drain cycle:



• After a few minutes, 3 beeps indicate the end of the cleaning cycle and "END" blinks on the display:



Switch off the dishwasher by pressing button "A" (Fig. 15).



- Switch off at the mains.
- Close the water supply cock.
- Replace the filter and the overflow.

Clean the nozzle jets

 Remove the top and bottom jets "F" and "I", unscrewing the ring nut "H".





 Carefully clean the washing and rinse jets and clean everything with hot water and neutral detergent/detersive, if necessary using a soft brush or sponge. Do not use sharp implements to clean the nozzle holes, which could otherwise be damaged.

Cleaning the filter

• Remove the filter "E" and clean away any remained food in order to avoid blocking the draining system.



Fig. 22

Upon completion of cleaning operations, replace the parts removed previously.

Cleaning the exterior surfaces

Before carrying out any cleaning operations, turn off the power at the mains.

Clean the stainless steel surfaces using warm soapy water; never use detergents containing abrasive substances nor steel scrapers, common wire wool, brushes or scrapers; rinse thoroughly using a wet cloth and carefully wipe dry. Clean the control panel using a soft damp cloth and a neutral detergent if necessary.

Do not wash the appliance using direct or high-pressure water jets. To reduce the emission of pollutants into the environment, clean the appliance (externally and where necessary internally) with products having a biodegradability of over 90%).

C5 FRONT LOADING DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER

These models have a continuous softener in the dishwasher water circuit. By means of special resins, this device removes the calcareous substances from the feed water, supplying decalcified water for washing.

For the continuous softener to work properly the resins must be regenerated periodically, with frequency depending on the hardness of the water and the number of wash cycles carried out.

Unlike conventional water softeners, this continuous softener does not require machine stops for regenerating the resins.

AUTONOMY OF THE FULL SALT CONTAINER ACCORDING TO THE CHANGE IN INLET WATER HARDNESS

Water hardness			The salt container must be filled approximately every (*):	Using cycle 2 for 30 cycles/day, the salt container must be fil- led approximately every (*):
°f	°d	°e	Cycles	Days
15	8,4	10,5	922	31
20	11,2	14	661	22
25	14	17,5	465	15
30	16,8	21,1	400	13
35	19,6	24,6	334	11
40	22,4	28,1	269	9
The factory setting of max. outlet water hardness is 10 °f/ 5.6 °d/ 7 °e. (*) Considering a rinse time according to the factory settings.				

Salt container

The water can only be softened if there is salt in the special container. The salt container must be filled when the dishwasher is started the first time and whenever the message 5% Erd appears and an audible alarm sounds.

No salt in the container

IMPORTANT:

Only use coarse salt with a purity level of 99.8% NaCl. The use of salt with a lower purity level can cause clogging of the salt container filter and malfunctioning of the water softener.

When the salt container is empty, the message SRL $E \cap d$ appears on the display and an audible alarm sounds. Wash cycles can be started just the same, even if the display signals no salt; in which case the water used for washing is not softened.



IMPORTANT:

Open the salt container only when the message **5***RL* **E***nd* is displayed. Opening the cap when the message **5***RL* **E***nd* is <u>not</u> displayed can cause spilling of the saline solution and compromise correct machine operation.

How to fill the salt container

Switch off the dishwasher by pressing button "A" (Fig. 15).



• Unscrew cap "A" (Fig. 23) of the salt container, turning it anticlockwise.



• Pour approx. 1.5 kg of coarse salt [NaCl] in container "A" (an amount sufficient to fill the salt container up to the rim) using the special funnel supplied (Fig. 24).





IMPORTANT:

only salt may be placed in the salt container. Do not introduce any other chemical substances such as detergent, rinse aid or descaling agent, since these would inevitably damage the appliance. Such damage invalidates any warranty and relieves the manufacturer of all liability.

- Remove any traces of salt from the filling hole, the container thread and the closing cap seal.
- Refit the cap of container "A", turning it clockwise and making sure it is tight.

IMPORTANT:



The message **5RL** End may appear for several wash cycles even after toppingup the salt, as the salt must circulate in the entire system. Correct operation of the dishwasher is not, however, affected.

The salt container always has water in it, therefore it is normal if water comes out during filling.

Rinse-aid container

In models with incorporated continuous water softener, the rinse-aid container is located in the front panel of the appliance (Fig. 25).



Fig. 25

How to fill the rinse-aid container

- Unscrew cap "B" (Fig. 25) turning it anticlockwise.
- Pour the rinse-aid in container "B" up to the rim.



IMPORTANT:

Only introduce rinse-aid in the rinse-aid container. Do not introduce other chemical substances such as detergent, descaling agent or salt, since these would inevitably damage the appliance. Such damage invalidates any warranty and relieves the Manufacturer of all liability.

• Refit the cap of container "B", turning it clockwise and making sure it is tight.

C6 WARNING MESSAGES DISPLAYED ON THE CONTROL PANEL

A1 NO WATER

- Check that the cock is open.
- Check that the water inlet filter is clean.
- Check the minimum mains pressure.
- Check that the overflow pipe is inserted (for appliances without drain pump only)

B1 INEFFICIENT DRAINAGE

- Check if the overflow has been removed.
- Check for obstruction on the waste outlet pipe and the overflow aperture.



TANK WATER LEVEL TOO HIGH

- Check for obstruction on the waste outlet pipe and the overflow aperture.

C1..C8 CALL THE SERVICE CENTRE

E1..E8 CALL THE SERVICE CENTRE

- The appliance continues to operate, but appropriate checks by a technician are recommended.

C7 RESIDUAL RISKS

The machine has several risks that were not completely eliminated from a design standpoint or with the installation of adequate protection devices.

Nevertheless, through this manual the Manufacturer has taken steps to inform operators of such risks, carefully indicating the personal protection equipment to be used by them.

Sufficient spaces are provided for during the machine installation phases in order to limit these risks.

To preserve these conditions, the corridors and areas around the machine must always be:

- kept free of obstacles (e.g. ladders, tools, containers, boxes, etc.);
- clean and dry;
- well lit.

For the Customer's complete information, the residual risks remaining on the machine are given below; such actions are to be considered incorrect and therefore strictly forbidden.

RESIDUAL RISK	DESCRIPTION OF HAZARDOUS SITUATION
Slipping or falling	The operator can slip due to water or dirt on the floor.
Burns	The operator deliberately or unin- tentionally touches some compo- nents inside the machine or dishes at the outfeed without using gloves or without allowing them to cool. Possible contact with water above 60°C / 140°F.
Electrocution	Contact with live parts during main- tenance operations carried out with the electrical panel powered.
Falling from above	The operator intervenes on the machine using unsuitable systems to access the upper part (e.g. rung ladders, or climbs on it).
Tipping of loads	During maintenance on the machine or the packing containing the machine with the use of unsuit- able accessories or lifting systems or with load unbalanced.
Chemical	Contact with chemical substances (e.g. detergent, rinse aid, scale remover, etc.) without taking ade- quate safety precautions. There- fore always refer to the safety cards and labels on the products used.

TROUBLESHOOTING

D

 Check that the tank temperature is between 55°C and 65°C. Check that the dishes are stacked correctly in the racks.
--

GLASSES AND DISHES ARE NOT DRIED PROPERLY	 Check the instructions for the amount of rinse-aid (see "setting the dispensers" paragraph). Check that there is rinse-aid in the container and if necessary top up. Check the set amount of rinse-aid (see "setting the dispensers" paragraph). Check that the water temperature is between 80°C and 90°C.
--	--

CONDENSATION ON GLASSES	 Check that there is rinse-aid in the container and if necessary top up. Check the set amount of rinse-aid (see "setting the dispensers" para- graph). Remove the rack of glasses immediately the cycle has ended.
-------------------------	---

STAINS ON THE GLASSES	1. Only use "non-foaming" products for professional dishwashers.
EXCESSIVE FOAM IN THE TANK	 Check that the wash water temperature is not less than 50°C. Check if the amount of product dispensed by the detergent dispenser is excessive (see "setting the dispensers" paragraph). Ensure that the tank has not been cleaned with unsuitable cleaners. Drain the tank and rinse thoroughly before new wash cycles. If a foaming detergent has been used, drain and refill the tank with water until the foam disappears.

SMEARS OR SPOTS ON THE GLASSES	1. Reduce the amount of rinse-aid (see "setting the dispensers" para- graph).
THE WASH OR RINSE ARMS TURN SLOWLY	 Remove and thoroughly clean the arms. Clean the wash pump suction filter.