

User Manual

Getinge Lancer Ultima Series



The model name and serial number should always be provided when ordering spare parts or during queries per telephone or written correspondence:
Serial number of the machine:
Machine model:

Date of last revision: May 2020 In order to ensure that our products are continually improved, GETINGE LANCER reserves the right to make any changes to their features relating to technical developments

Drawings and photos are non-contractual

ORIGINAL INSTRUCTIONS

GETINGE LANCER 30, Bd de l'Industrie Zone industrielle Pahin Concerto 31170 Tournefeuille - France Internet: www.getinge.com

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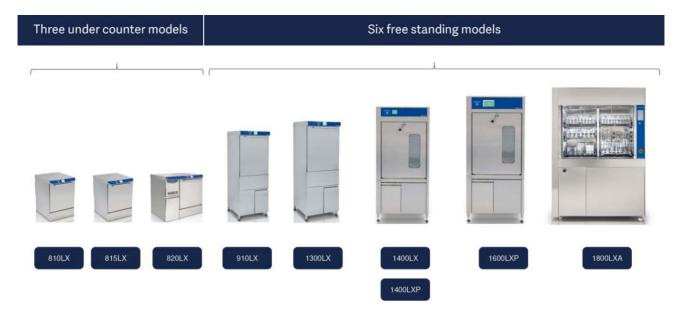
1 PRESENTATION OF THE GETINGE LANCER ULTIMA SERIES AND GENERAL INFORMATION

1.1 PRESENTATION OF THE ULTIMA SERIES

You have in your possession a GETINGE LANCER ULTIMA series washer.

The ULTIMA series washer and ULTIMA series washer/dryer has been designed to meet and exceed the growing requirements of the Laboratory industry for cleaning of glassware in the chemistry, microbiology, quality control and analytical laboratories

A wide range of washers and washer-dryers for laboratory glassware:



Fully programmable, easy to use, ULTIMA series features technological innovations as the injector drying system (except 810LX and 815 LX), using hot HEPA filtered air, or the automatic electric door locking for the users comfort and safety.

Some of the main features of ULTIMA series washers:

- User friendly touch screen that provide comprehensible help in resolving problems and allow operators to see machine status from a distance:
 - Horizontal 3,5" color touch screen for 810 LX / 815 LX / 820 LX / 910 LX / 1300 LX / 1400 LX
 - Horizontal 7" color touch screen for 1400 LXP / 1600 LXP
 - Vertical 7" color touch screen for 1800 LXA

- 40 microprocessor-controlled programs, of which 5 are factory preset and 35 can be user-customized (PIN code protected) to suit particular applications or loads.
- PLC microprocessor designed for simplicity, one-touch start and real-time status indicators
- Multiple loading configurations thanks to independent washing levels, the upper levels can be positioned in different positions.

Its good working and your entire satisfaction depend on the attention you pay when reading this guide.



This manual is common to all GETINGE LANCER washers of the ULTIMA range.

Despite the fact that the screens sizes and orientations of our washers are different, the information displayed remains the same.

Some variants may appear for the model 1800LXA, in this case they will be the subject of a particular paragraph.

This manual uses the 3.5 " touch screen print shots.

1.2 GENERAL CONSIDERATIONS

1.2.1 COPYRIGHT-LIABILITY

All rights reserved.

GETINGE LANCER pays close attention to all technical developments and continuously seeks to improve its products and services in order to provide an adequate response to the needs of its clients. GETINGE LANCER therefore reserves the right to modify the related documentation without prior notice.

1.2.2 DECLARATION OF CONFORMITY

This ULTIMA series washer has been developed and manufactured following the standards (CE and/or UL).



For the washers in conformity with the CE standards, a "CE conformity declaration" is delivered with the machines.

1.2.3 MANUFACTURER

This ULTIMA series washer is manufactured in our Center of Excellence:

GETINGE LANCER
30, Bd de l'Industrie
Zone industrielle Pahin Concerto
31170 Tournefeuille - France

1.2.4 SOFTWARE LINCESES

This ULTIMA series washer uses the following SW:

- A Linux kernel under GNU General Public License version 2 (GPLv2). In conformity with Linux kernel license, the sources of kernel are available on demand.
- QT framework under GNU Lesser General Public License version 3 (LGPLv3).
- Proprietary SW

1.3 SAFETY WARNINGS

1.3.1 CORRECT USAGE

The installation of the ULTIMA series washer must be achieved in accordance with the procedures described in the installation manual delivered with the machine.

This section contains important information on how to operate your washer. Follow the instructions in this manual carefully for best outcome.

ULTIMA series washers are equipped with a number of safety devices. To avoid injury, do not by-pass or disable these devices.

Do not tamper with or attempt to modify these devices, as this could prove dangerous.

Before launching a cycle, check the opening of the waters intakes, steam intake, pneumatic intake taps and electrical supply.

1.3.2 OPERATOR TRAINING

Read these instructions carefully before use.

The ULTIMA series washer must only be used by experienced and trained staff.

This training is left to the discretion of the facility based on need and staff experience.

Users and technicians must be trained before operating the ULTIMA series washer.

All staff using the ULTIMA series washer should have received full user training. This training must include selecting and understanding the washing cycle, loading and unloading of the glassware and knowledge of the chemical products used.

Installation and maintenance must be carried out by staffs who have received training for this equipment.

1.4 PRODUCT & ADDITIVE LIABILITY

ULTIMA series washers must be used under normal operating conditions as indicated in this GETINGE LANCER user manual.

Failure to follow these recommendations including training could result in material damage or personal injury and will render null and void any warranty or liability on GETINGE LANCER part.

Liability will not be accepted in the event of incorrect use or modification of the washer without the prior agreement of the manufacturer.

1.5 SYMBOL

This manual contains extremely important warnings, instructions and notices, hence symbols have been used to draw your attention to them.



Safety warning for persons and equipment

Advice and recommendations

2 ULTIMA SERIES WASHERS

2.1 OPERATOR INTERFACES

2.1.1 CONTROL PANNEL



ON / OFF Button



USB Port



Toushscreen panel

3.5 ": 810LX/815LX/820LX/ 910LX/1300LX/1400LX

7": 1400LXP/1600LXP/1800LXA



Conductivitymeter (option-applicable on 1400LXP / 1600LXP / 1800LXA only)



Internal printer

(option-applicable on 1400 LX / 1400 LXP / 1600 LXP / 1800 LXA only)



External printer (option)



Emergency stop

(Option-applicable on 910 LX / 1300 LX / 1400 LX / 1400 LXP / 1600 LXP Standard on 1800LXA)



Main switch

(option-applicable on 1400LX/1400LXP/1600LXP/1800LXA only)

2.1.2 TOUCH SCREEN



Example of the 3.5 " main screen for: 810LX/815LX/820LX/ 910LX/1300LX/1400LX



Example of the 7 $^{\prime\prime}$ main screen for: 1400 XLP / 1600 LXP



Example of the vertical 7 \H main screen for: 1800LXA

2.1.3 ICONLIST



Login



Page Down



Door Open



Logout



Information



Door Close



Page Up



System



Light



Back



Documentation Program



Start



Cycle Details



USB



Сору



User Setup



Digital Inputs



Calibration



Pump Priming



Edit Users



Common times



Flow Meters



Edit System



Equipment ID



Sequence Names



Download File



Confirm



Edit/create Program



Abort/Stop



Alarm History



Print



Date/Time



Settings



Analog Inputs



Manual Calibration



Ticket Header



Temperature

Counters

Settings



Pressure Transmitters



File Management



Water Supplies



Door Management



Upload File



Close



Sampling



Clear Alarm



Export



Reprint



Language



Diagnostics



Outputs



Automatic Calibration



Ticket Footer



Rename



Security Settings



Conductivity

System Reset



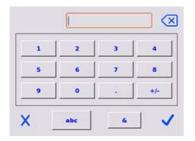
Chemical Supplies



Reboot System

Display

2.1.4 ALPHANUMERIC KEYPAD



When you press on a modificable parameter, an alphanumeric keypad opens.

On the upper left corner is indicated the minimum and maximal value of the modifiable parameter.







2.1.5 ON/OFFBUTTON



This button enables / disables the HMI and the outputs of the card.

At any time, from the main screen, it's possible to put the screen in standby by pressing this button, a pop-up appears to ask for confirmation of this action.

To reactivate the screen, press the button.

2.1.6 EMERGENCY STOP BUTTON

IF APPLICABLE



The button should be used in case of an emergency, press the emergency stop button to immediately stop the operation of the washer.

After actuating and before unlocking the emergency stop button, the washer must be inspected to determine the reason for the shutdown.



After each action of emergency stop, if there is any water in the chamber or in the well, do not touch it until the next draining.

In order to reset the machine, turn the stop button red head clockwise or insert and turn the key (only for emergency stop button with key).



The key must only be in the emergency stop button for unlocking.

2.2 SAFETY ADVICES

This apparatus, dedicated to an industrial use, has been developed to wash and dry glassware, labware in the chemistry, microbiology, quality control and analytical laboratories ...



This washer must be used under the normal conditions of operation in conformity with the instructions manual of the manufacturer

We decline any responsibility and guarantee in the event of non-respect of these recommendations which can involve body or material damages

- Use only cleaning products designed for use in laboratory glassware washers.
- If you pretreat items to be cleaned with solvents or other cleaning agents, ensure that they have been purged from the items to be cleaned and allow potentially harmful or flammable fumes to dissipate before placing them in the apparatus.
- In the same way, it is strongly recommended not to use solvents or aerosols near the apparatus.
- If incidents occur and you cannot solve those using solutions that we recommend you, do not hesitate to contact GETINGE technical assistance service.

2.2.1 PRECAUTIONS FOR USE



AT THE END OF THE CYCLE, LET THE SUPPORTS, BASKETS, ACCESSORIES AND WASHED OBJECTS COOL BEFORE HANDLING THEM.

BURN RISK



PLEASE REFER TO PRODUCT MATERIAL SAFETY DATA SHEET IN CASE OF PRODUCT ACCIDENTALLY SPILLS OVER

2.2.2 SAFETY LABELLS



SAFETY GLASSES MANDATORY

SAFETY GLOVES MANDATORY

RISK FOR OPERATOR DEPENDS ON THE PRODUCTS (DETERGENTS AND ACIDS) USED INSIDE THE MACHINE AND ON THE NATURE OF DEPOSITS ON THE ITEMS TO BE CLEANED.



WEARING SAFETY GLASSES AND GLOVES MAY NOT BE SUFFICIENT IN SOME CASES.

OPERATOR HAS TO READ SAFETY DATA SHEETS OF USED PRODUCTS.

2.2.3 USE



IT IS STRICTLY FORBIDDEN TO USE THE WASHER IN AN EXPLOSIVE ENVIRONMENT OR TO USE SOLVENTS, HYDROCARBONS, NITRIC ACID, ALCOHOL, ALCOHOL DERIVATIVES, OR OTHER FLAMMABLE PRODUCTS IN THE MACHINE.

This machine uses detergent (caustic) and acid additives with elevated temperatures in the chamber during the different phases of the wash cycle. Opening the door during the wash cycle can cause EXPOSURE TO HIGH TEMPERATURES, HAZARDOUS CHEMICALS AND VAPORS.

2.2.4 MAXIMUM CHARGE

Respect the maximum charge allowed for the loading at the door and upper level.



DO NOT CLIMB OR SIT ON THE DOOR.

When several racks are used simultaneously on the different levels, only one rack should be pulled out of chamber on the door and the runners at a time.

Maximum charge permissible allowed (basket + items to be washed) on the different levels is:

	810-815	820 LX 910 LX	1300 LX	1400 LX 1400 LXP	1600 LXP	1800 LXA
Door area to avoid tilting	44 kg (97 lb) 52 kg (114 lb) (if plinth)	44 kg (97 lb) 52 kg (114 lb) (if plinth)	51 kg (112 lb)	65 kg (143 lb)	90 kg (198 lbs)	/
First level in the chamber	26 kg (57 lb)	26 kg (57 lb)	26 kg (57 lb)	30 kg (66 lb)	30 kg (66 lb)	30 kg (66 lb)
Upper level in the chamber	23 kg (50 lb)	23 kg (50 lb)	23 kg (50 lb)	26 kg (57 lb)	26 kg (57 lb)	26 kg (57 lb)

Check that your basket may support the weight of your parts to be washed.

You should only use baskets that are suitable for the parts to be washed. When your washer is put into service, our technicians will give you useful advice on the best way to load the racks relative to the items to be washed.

It is possible to strengthen the baskets to your request, please feel free to contact GETINGE for advice or assistance.

2.3 OPENING OF THE DOOR

APPLICABLE FOR ALL ULTIMA MODELS EXCEPT 1800 LXA

Washer ON, press to unlock the door.
Use the door handle to open the door.

When washer is loaded and door closed, the washing cycle can begin.

The washer is equipped with a door locking device which prevents its opening during the washing cycle. At the end of the cycle, if the temperature inside is over 60°C, the door remains locked.



DO NOT TRY TO FORCE TO OPEN THE DOOR DURING A WASHING CYCLE, DOOR SAFETY LOCKING DEVICE CAN BE DAMAGED.

APPLICABLE FOR 1800 LXA ULTIMA MODELS

The washer is equipped with a door locking device which prevents its opening during the washing cycle.

When washer is loaded, washing cycle can begin.



When the chamber temperature is inferior to 60°C, press

to open the door

On standby, the door may be closed with





NEVER LEAVE THE PRODUCTS TANKS COMPARTMENT OPEN IF YOU MUST OPERATE THE DOOR.

2.4 WASHING PRODUCTS



PROGRAMS PREESTABLISHED WITH THIS WASHER HAVE BEEN VALIDATED WITH THE GETINGE LANCER WASHING PRODUCTS, THE LLL DETERGENT AND THE NLL NEUTRALIZER



THE INFORMATION REGARDING THE SAFETY DATA OF THE GETINGE LANCER WASHING PRODUCTS HAS BEEN DELIVERED WITHWASHING PRODUCTS.

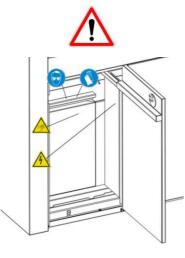
2.4.1 PRODUCT TANK AREA

(ONLY FOR WASHER EQUIPPED WITH A PRODUCT COMPARTMENT)



The washer is equipped with a product compartment (capacity 2 x 10L [2.5 gal] tanks) located on front of washer.

1800 LXA MODELS



ELECTRICAL DANGER / TAKE CARE OF YOUR HANDS





Do not insert your hand in between the product tank compartment and the hinged door which allows access to the product tank compartment.

Do not operate the door chamber if the products tanks compartment door is open

2.4.2 WASHING PRODUCTS CATEGORIES

NON-FOAMING DETERGENT

Using the correct non-foaming detergent is required for proper cleaning in this machine. The non-foaming detergent must be matched to remove the contamination source in order to ensure satisfactory washing.

IT IS STRICTLY FORBIDDEN TO USE SOLVENTS AS DETERGENT.

PLEASE REFER TO SUPPLIERS MATERIAL SAFETY DATA SHEET FOR SPECIFIC SAFETY AND FORMULATION INFORMATION REGARDING THE DETERGENT USED IN THIS EQUIPMENT.

INCOMPATIBLE CHEMICAL LIQUIDS CAN HARM THE EQUIPMENT.

THE PROGRAMMED CYCLES ON THIS WASHER HAVE BEEN VALIDATED WITH GETINGE LANCER CHEMICALS, THE LLL DETERGENT AND THE NLL NEUTRALIZER.

NEUTRALIZING ACID

Using the correct non-foaming neutralizing acid is required for proper cleaning in this machine. The non-foaming neutralizing acid must be matched to remove the detergent source in order to ensure satisfactory washing.

THE USE OF NITRIC ACID IS PROHIBITED. ONLY DILUTE PHOSPHORIC, ACETIC AND CITRIC ACIDS CAN BE USED.

PLEASE REFER TO SUPPLIER'S MATERIAL SAFETY DATA SHEET FOR SPECIFIC SAFETY AND FORMULATION INFORMATION REGARDING THE ACID USED IN THIS EQUIPMENT.

INCOMPATIBLE CHEMICAL LIQUIDS CAN HARM THE EQUIPMENT.

THE PROGRAMMED CYCLES ON THIS WASHER HAVE BEEN VALIDATED WITH GETINGE LANCER CHEMICALS, THE LLL DETERGENT AND THE NLL NEUTRALIZER.

2.4.3 INSTRUCTIONS TO RESPECT IN CASE OF HANDLING THE WASHING PRODUCTS



ANYONE HANDLING THE WASHING PRODUCTS MUST BE INFORMED OF THE RISKS ASSOCIATED WITH THESE PRODUCTS.

Before changing to a different type or brand of cleaning chemical (acid or detergent) it is necessary to purge the chemical line with water and rinse the plumbing circuitry of the machine.

Install the new chemical(s) per the installation instructions and then prime the detergent and acid pumps.

Then a wash cycle can be programmed and run which uses several rinses with water only. This will prevent any mixing of chemicals.

After the new cleaning chemical have been installed, it will be necessary to adjust the chemical dosing times in all applicable steps of the wash cycle in order to match the formulation of the new cleaning chemicals.

Please contact GETINGE for advice or assistance.

2.4.4 CHANGE OF THE TANKS

Before launching the cycle, check product tank levels and change those with low levels so as to avoid bad washing because of a lack of additive.

2.4.5 HOW TO CHANGE CHEMICAL CONTAINER

Switch the washer OFF.

Use the necessary protection for the chemical to be changed (gloves, mask, safety glasses...).

Locate the container(s) that need to be changed.

Unscrew the cap(s) from the empty chemical bottle(s) and take out the chemical suction tube(s).

Unscrew the cap(s) from the full chemical bottle(s) and insert the chemical suction tube(s). Tighten the cap(s) to secure the chemical suction tube in place.

Switch the washer ON.

Dispose of used chemical bottles or caps according to local and company regulations. Please consult the Material Safety Data Sheet for specific information regarding the chemicals used in the washer.

2.5 BUILT-IN PRINTER (IF APPLICABLE)

2.5.1 CHECKING THE PRINTER

Before launching any cycle or reprinting the printout, check the quantity of paper of the printer roller.

2.5.2 CHOICE OF THE SUITABLE PAPER ROLLS

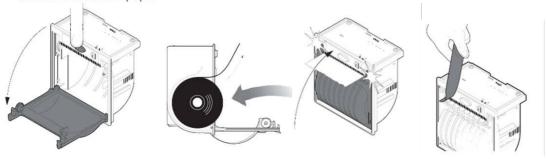
It is recommended that a high quality thermal paper be used with a minimum of seven years life expectancy. The use of non-approved products can cause dust and increased wear. This can affect the warranty. The paper roll is delivered separately in order to prevent it from unrolling or becoming damaged during transport. Consult your GETINGE representative about suitable paper rolls.

2.5.3 REMOVING PAPER AND CLEARING PAPER JAMS

If there is some paper in the printer when a new roll is necessary or a paper jam has occurred, simply open the cover and press the paper advance button.

2.5.4 LOADING PAPER

- Open the device cover
- 2- Place the roll in the paper compartment and pull out the paper for a few centimeter
- 3- Close the device cover
- 4- Remove the excess paper



2.5.5 OPERATINGMODES

Powering up is automatic or carried out by a command received from the washer.

2.5.6 PRINTER MAINTENANCE

	Every paper change	Every 5 paper changes	Every 6 months or as needed
Printhead	Use isopropyl alcohol	Use compressed air	
Rollers	Use isopropyl alcohol		
Sensors		Use compressed air	
Device case			Use compressed air or a soft cloth

For more information refer directly to the printer website.

2.6 EXTERNAL PRINTER (IF APPLICABLE)

2.6.1 CHECKING THE PRINTER

Before launching any cycle or reprinting the printout, check the quantity of paper of the printer roller.

2.6.2 CHOICE OF THE SUITABLE PAPER ROLLS

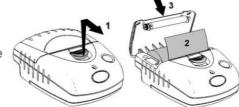
Please use quality paper. The use of non-approved products can cause dust and increased wear. This can affect the guarantee. The paper roll is normally delivered separately in order to prevent it from unrolling or becoming damaged during transport. Consult GETINGE about suitable paper rolls.

2.6.3 REMOVING PAPER AND CLEARING PAPER JAMS

If there is some paper in the printer when a new roll is necessary or a paper jam has occurred, simply open the cover and press the paper advance button.

2.6.4 LOADING PAPER

- 1. Slide the cover opening button forward until it opens.
- 2. Unroll a small amount of paper and insert the paper roll in the printer.
- 3. Close the cover, the paper has been loaded.



Pressing on the paper advance button while the printer is on standby mode makes the paper advance. However, the advance button has several other functions:

⇒Pressing the button once and releasing it:

- In standby mode, makes the paper advance.
- In sleep mode, makes the printer go into the standby mode.

⇒In standby mode, a "double click" on the button, prints out a sample message.

2.6.5 OPERATING MODES

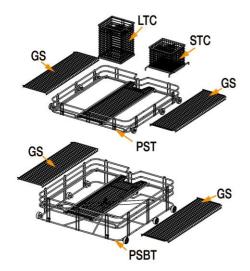
Powering up is automatic or carried out by a command received from the washer.

2.6.6 PRINTER MAINTENANCE

After a certain time of use, it may be necessary to remove paper dust from inside and around the mechanism. Use a small vacuum for cleaning.

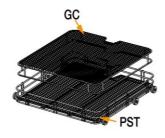
2.7 USING OF THE ACCESSORIES

2.7.1 SOME EXAMPLES



In order to wash items in "LTC" or "STC" type baskets, place the baskets on the "PST" (basic rack) or "PSBT" (basic rack with spray arm) after removing one or more "GS" (support grilles). Check that the basket is correctly fitted on the rods of the rack designed for that purpose. Reinstall the grids for any washing operation that does not require the use of "LTC" or "STC" type baskets.

<u>Note</u>: The "**PST**" should only be positioned at the bottom level of the washer chamber where washing action is provided by the lower spray arm. The "**PSBT**" can be positioned on any level.



It is extremely important that the items to be washed are prevented from moving in order to obtain correct cleaning and to avoid breakage of fragile items. Items that can be easily moved or knocked over when loaded on the "PST" or "PSBT" rack should be secured in place. The "GC" hold down screen should be used for "PST" or "PSBT" racks. The "GCI" hold down screen should be used for injector racks.





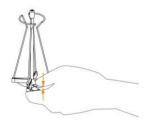
In the case of washing items with small diameter openings such as volumetric flasks, it is very important that the flow rate of the injectors used must be lower than the flow capacity of the flasks to be washed in order to avoid a gradual filling of the flasks during the washing cycle. If the diameter of the opening is too small to allow the water to escape from around the injector the mechanical action of the injector can be absorbed by the water contained in the glassware giving poor cleaning results. It is imperative to use baskets with injectors of proper diameter and, above all, to secure lightweight items with a "GC" or "GCI" hold down screen.

DETAIL ON BASKET INJECTOR:



An adaptable stainless steel wire to maintain the glassware in position
It shall be used with narrow width mouth glassware and shall not under any
circumstances exceed their flexibility by forcing glassware that is not
intended to be placed in these.

- Just below the injector tip is a flat surface which allows a wrench to be used to remove the injector for maintenance
- An integrated spring clip allows the star base to be moved up or down to accommodate different heights of glassware







You should only use baskets that are suitable for the parts to be washed. When your washer is installed, our technicians will give you useful advice on the best way to load the racks relative to the items to be washed.

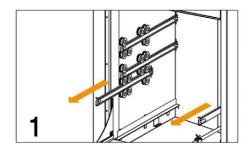
Please feel free to contact GETINGE for advice or assistance.

When several racks are used simultaneously on the different levels, only one rack should be pulled out of chamber on the door and the runners at a time.

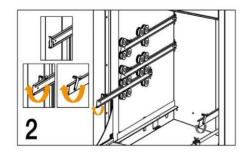


IF THE LOADED RACKS EXCEED 25 KG (55 LB) AN OPTIONAL TROLLEY CAN BE USED TO LOAD AND UNLOAD THE WASHER.

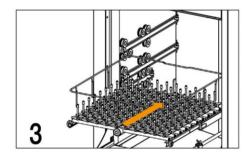
2.7.2 FITTING THE BASKETS



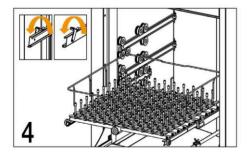
Pull the slide rails out of the chamber.



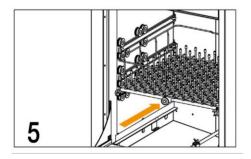
Open the locking device by rotating it up.



Insert back wheels of basket into rail slide and begin pushing basket into chamber



Once the middle wheels of basket have gone past the locking device, rotate it down to lock the basket in place.



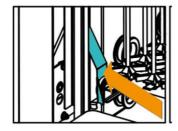
Push basket and rail slides all the way into the chamber.



THE CHOICE OF THE BASKETS AND RACKS IS VERY IMPORTANT TO ENSURE EFFICIENT CLEANING.

PLEASE FEEL FREE TO CONTACT GETINGE FOR ADVICE OR ASSISTANCE.

1800 LXA MODELS



The rails, not positioned in the central rack, are locked inside the chamber using a spring lock.

Before fitting basket you must:

- Press the spring to release the rail.
- Relax the pressure once the rail is completely clear.





And after use the procedure describe above to fitting basket



CHECK THAT ALL RAILS ARE IN THE RETRACTED POSITION BEFORE ANY DOOR MOVEMENT.

2.7.3 LOADING GLASSWARE



A MINIMUM CLEARANCE OF 25 MM (1 IN) IS REQUIRED BETWEEN THE END OF THE INJECTOR AND THE BASE OF THE GLASSWARE.

PLEASE FEEL FREE TO CONTACT GETINGE FOR ADVICE OR ASSISTANCE.





Some examples of loading glassware:













3 WASHER UTILIZATION

3.1 FUNCTIONS ACCESS BY LEVEL CODE

FUNCTIONS	OPERATOR	TECHNICIAN	SUPERVISOR
Launching a cycle	\checkmark	$\overline{\checkmark}$	\checkmark
Sampling during cycle	\checkmark		\checkmark
Reading washing programs	\checkmark		\checkmark
Dosing pumps priming	\checkmark	\checkmark	\checkmark
Edit programs			\checkmark
Ticket parameters	\checkmark		\checkmark
User setup			\checkmark
Date & time update			\checkmark
Calibration			\checkmark
Diagnostics (inputs/ outputs)			\checkmark
Display language			\checkmark
Settings			

Please refer to the "ACCESS CODE" document for available access codes list by level and by security types.

3.2 CONNECTING TO THE MAINS





After a few seconds, the Initialization screen is displayed.

After the software is loaded, the main screen is shown.

3.3 ACCESSIBILITY TO THE WASHER

Depending on the configuration selected for your ULTIMA washer, cycle launching and accessibility settings could be different, regardless of your access level:

There are many types of security levels:



Codefor cycle start: if selected, access code is required to:

- -start and validate a wash cycle
- -access the different icons linked to it.
- -acknowledge an alarm.

The person's identification, associated with the password, will be indicated on the cycle ticket (even in visualization)

<u>Batch ID</u>: (or load information), if selected, you have to enter a batch ID or an information related to the load in process. Batch ID will be indicated on cycle printout (only if your washer is equipped with a printer) or indicated on the PDF report that you can retrieve via the USB support.



<u>Basic Security type</u>: if selected, you have to enter a password to access the washer settings but not to start a wash cycle.

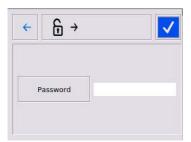
<u>High Security type</u>: if selected, you have to enter a password and a user name to access the washer settings but not to start a wash cycle.

3.3.1 BASIC SECURITY (LEVEL 1)





If the system is configured for Basic Security, a numeric keypad will be shown for entering an access code.





Once the information has been entered, press to complete the logir process.



Please refer to the "ACCESS CODE" document for available access codes list.

If these have been customized with , please refer to the document listing this new information

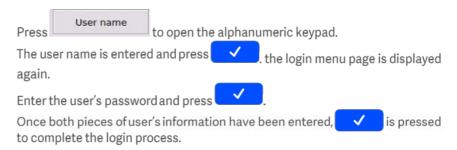
3.3.2 HIGH SECURITY (LEVEL 2)





The login menu is shown.







Please refer to the "ACCESS CODE" document for available access codes list.

If these have been customized with , please refer to the document listing this new information

3.4 HOME PAGE CUSTOMIZATION

It's possible to customize your washer main menu:

- By displaying on the main menu page the 4 most frequently used cycles
- By displaying only program 8 (previously set)

3.4.1 EXAMPLE OF 4 CYCLES MAIN MENU



It's possible to customize the home page of your washer to have on this page cycles used most frequently.

However, they must be on the same page (for example P05 to P08, P09 to P12)

This customization gives a faster access to your programs.





This customization is accessible only by a supervisor code, please contact him to set up.

This page will become the home page for any level of access.

3.4.2 EXAMPLE OF A PROGRAM8 MAIN MENU



You can customize the main page of your washer to have only one cycle displayed on this page (applicable for program 8 only).

However, it must be configured before.

This customization allows quick lauching programs.



This personalization is accessible only with a supervisor code please contact him to set up.

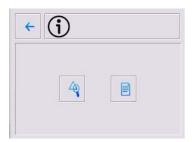
This page will become the main page until you enter your access code.

3.5 WASHER INFORMATION



In standby and during operation, Information about the washer (Alarm History and Washer information) are available.

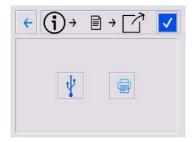
Press to open a menu where you can pick from Washer information or Alarm History (see page 53)



Press allows to view information about the washer. Use the page up/down icons to scroll through information.







is only active in Standby mode. Pressing the icon will allow you to export information to USB or the printer by pressing on the appropriate icon.

(If the printer option is not fitted on washer, the printer icon will be shown in grey to indicate that it is not active.)

Information exported on USB key allows to recover all the parameters of the washer, which can be reimported during a change of card or software.



This action can be performed logged or unlogged

- Logged (supervisor and technician): machine parameters (pdf and cfgfiles) and all cycles performed exported
- Not logged: machine settings exported (pdf file)

ULTIMA series LAUNCHING A CYCLE

4 LAUNCHING A CYCLE



BEFORE FIRST USE, THE WASHER AND ITS BASKETS MUST REALIZE AN EMPTY CYCLE.

4.1 CYCLES PRESENTATION

PROGRAMME 01: VOLUMETRIC FLASKS

- Prewash with the detergent
- · Wash with the detergent.
- Acid rinse with the acid neutralizer
- · Rinse with purified water
- Final rinse at 50°C with the purified water
- Drying (depending washer model)
- Cooling (depending washer model)

PROGRAMME 02: MICROBIOLOGY

- Prewash with the detergent
- Wash with the detergent.
- · Acid rinse with the acid neutralizer
- Final rinse at 80°C with the purified water
- Drying (depending washer model)
- Cooling (depending washer model)

PROGRAMME 03: CHEMISTRY, BIOLOGY

- · Prewash with the detergent
- Wash with the detergent.
- Acid rinse with the acid neutralizer
- · Rinse with purified water
- Final rinse at 80°C with the purified water
- Drying (depending washer model)
- Cooling (depending washer model)

PROGRAMME 04: GELOSE

- Prewash with the detergent at 90°C
- Wash with the detergent.
- Acid rinse with the acid neutralizer
- · Rinse with purified water
- Final rinse at 80°C with the purified water
- Drying (depending washer model)
- Cooling (depending washer model)

PROGRAMME 05: ECO

- Wash with the detergent
- Acid rinse with the acid neutralizer
- Final rinse at 80°C with the purified water
- Drying (depending washer model)
- Cooling (depending washer model)

NOTE: other programs can be setup has needed.

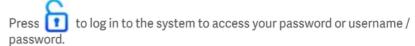
ULTIMA series LAUNCHING A CYCLE

4.2 LAUNCHING A CYCLE



WasherON.

If your washer has been configured with the **CODE FOR CYCLE START** option (see page 30), you will be asked to enter a password to access the washing programs.





From the main menu, the operator may scroll through the program list.

The last program used is highlighted with dark shading. (PO1 in this example.)



Once a program has been selected, the program function menu is displayed. In this menu, the functions related to wash programs can be selected (see different possibilities p39).



To start the program press

Nota: the door must be closed and locked for all washers except 1800LXA whose the door closes automatically



If your washer has been configured with the Batch ID option (refer to page 30), you are prompted to enter a batch information when you see this screen at start of cycle.

ULTIMA series LAUNCHING A CYCLE

4.3 DURING THE CYCLE



During normal wash cycle operation, the Circle progress bar is shown. Additional information (Program #, Sequence, Phase, Total Cycle Time, and Phase Time) is shown in the display header.

The wash cycle can be stopped / aborted by pressing

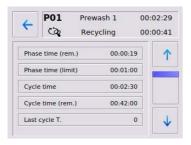




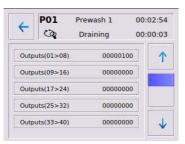
During the cycle, detailed information can be displayed.

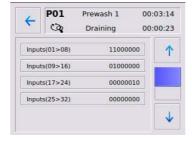


to display the detailed information.









ULTIMA series LAUNCHING A CYCLE

4.4 END OF CYCLE



When the wash cycle is completed without incident, a screen indicates if the temperature is superior to 60°C or if the washer can be unloaded.

If the chamber interior temperature is equal or superior to 60°C, the screen alongside remain displayed until the temperature has passed below this value. The acknowledgment of the cycle can only be done when the following screen appears



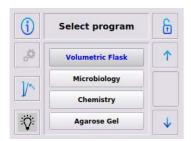




If your washer has been configured with the **CODE FOR CYCLE START** option (see page 30), you will be asked to enter a password to valid the end of cycle.



This screen indicates that the door unlocks, it is necessary to wait until the following screen appears before operating the handle.



For 1800LXA ,it's necessary to press to unlocked the door



CHECK THE CONDITION OF GLASSWARE WHEN UNLOADING ITEMS FROM THE WASH CHAMBER

5 ACCESS TO THE USER

5.1 SAMPLING DURING THE CYCLE

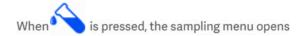


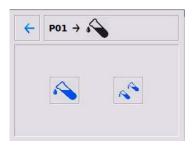
Only for washer with sampling valve option

A sampling selection in the program stops the washer. Sampling the washer water allows to control the efficiency of the cycle and validate it.

Once a program has been selected, the program function menu opens in which functions related to wash programs can be selected







The operator can select to take during the cycle:



- one sample before the final rinse draining phase ("final rinse" sampling).
- : multiple samples before each draining phase ("multiphase" sampling)

After making the appropriate selection, the display returns to the program function menu.

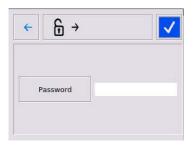


After the program is started, a sample confirmation message will appear during the cycle when it is time to take the sample.

Remove the sampling valve plug Place a glassware under the sampling valve neck Open the valve to take a sample. Close the valve.

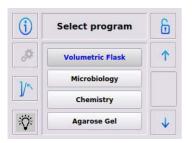
Put the plug back in place.

Once the sample has been taken, press \checkmark to allow the cycle to continue.



If your washer has been configured with the CODE FOR CYCLE START option (see page 29), you will be asked to enter a password to valid the sampling.

5.2 READING WASHING PROGRAMS

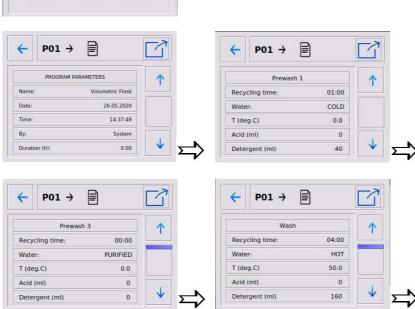


Selecting a program from main menu (P01 in this example) will open a menu in which you can perform different functions related to program cycles.



Pressing will allow you to view the program setup for the current cycle.

Use to scroll through the information (Note, there are 14 menu pages of information related to Program cycles).





0.0

0

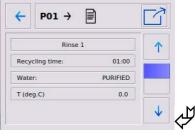
P01 →

T (deg C)

Acid (ml)



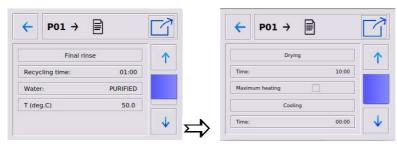


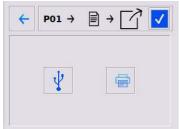








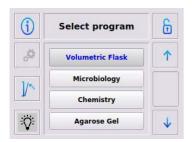




At any point you can press to send the program cycle data to USB store device or printer

(If the printer option is not fitted on washer, the printer icon will be shown in grey to indicate that it is not active.)

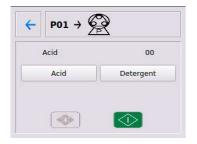
5.3 ADDITIVE PUMP PRIMING



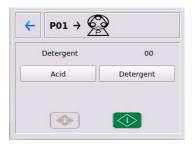
Selecting a program from main menu will open a menu in which you can access different functions related to program cycles.



Pressing will allow you to select and then prime a chemical pump.



Select the desired chemical pump.



Once you press , the pump will run for 60 seconds.



can be pressed at any time during the 60 seconds to stop the pump.

After the pump stops, the chamber will be filled with cold water for 30 seconds to help flush away residual chemical and then the drain circuit will be activated for 30 seconds to send the solution to drain.

5.4 TICKET PARAMETERS

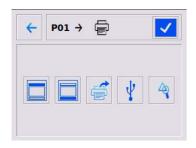


Selecting a program from main menu will open a menu in which you can access different functions related to program cycles.



Pressing will open a menu in which you can to select and edit ticket header and footer information and also reprint previous cycle tickets.

5.4.1 TICKET HEADER



Press to display the header menu.

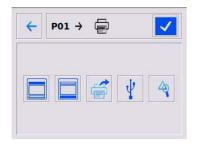


Press the applicable Header 1, 2 or 3 icon to open the alphanumeric keypad and enter desired header text.

Press to confirm text entry and to close the alphanumeric keypad.

At the header menu, press to save the updated header information

5.4.2 TICKET FOOTER



Press to display the footer menu.

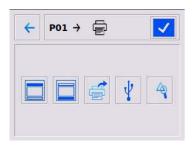


Press the applicable Footer 1, 2, or 3 icon to open the alphanumeric keypad.

Press to confirm text entry and to close the alphanumeric keypad.

At the footer menu, press to save the updated footer information

5.4.3 REPRINTING TICKETS



Press to open the reprint menu and reprint previous tickets.

(Note, if the printer option is not fitted on washer, the printer icon will be shown in grey to indicate that it is not active.)



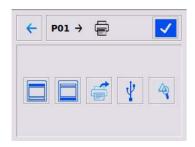
Pressing on the **Ticket Number**icon will open a numeric keypad so that you can select the ticket number to reprint

Press to confirm the selection and to close the keypad.

At the reprint menu, press to resend the selected ticket to the printer.

Please refer to the traceability chapter page 49 to see an example of ticket.

5.4.4EXPORT TICKETONUSB KEY



Press to open the exportation menu, then PDF wash cycles stored on main board can be exported on USB support.



Pressing on the **Ticket Number**icon will open a numeric keypad so that you can select the ticket number to export.

Two possibilities:

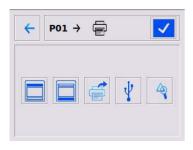
- If « ticket number » = 0, then all the stored files are exported on the USB key
- If «ticket number» ≠ 0 (last cycle number or number of any other cycle you wish to export), then only the file corresponding to the number is exported on the USB key

Press to confirm the selection and to close the keypad.

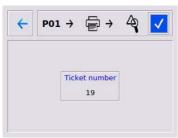
At the export menu, press to send the selected ticket to the USB key.

Please refer to the traceability chapter page 49 to see an example of ticket.

5.4.5 VISUALIZATION OF CYCLES TICKETS

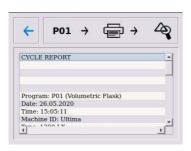


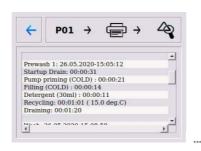
Press to open the visualization menu and view previous tickets

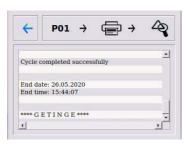


Pressing on the **Ticket Number**icon will open a numeric keypad so that you can select the ticket number to view.



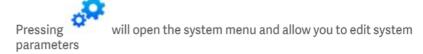






5.5 USER SETUP





(Note, this is a restricted menu and if the operator is not already logged in, they will be required to enter an access code or user name/password depending upon the defined security level.)



Pressing will allow an operator to change their user name and password.



Each user can change his own user name and password.

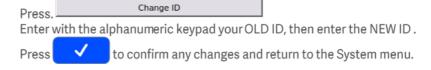


Press Change password .

Enter with the alphanumeric keypad your OLD password, then enter the NEW password and confirm it.

Press on to confirm any changes and return to the System menu.







It's advisable to have a document with a listing of user and access code associated.

6 TRACEABILITY

6.1 MACHINE TRACEABILITY DOCUMENT

When starting the ULTIMA series washer, a "machine traceability" document should be created to index the various operations carried out on the washer (in parallel to the traceability already in use at facility).

This document, in conjunction with the facility's traceability procedure, should consist of archiving of printouts issued by the washer and recording of maintenance operations (corrective and preventive).



REGARDLESS OF THE RESULTS OF THE PROCESSED CYCLE, YOU MUST REVIEW THE WASHER PRINTOUTS BEFORE ARCHIVING THEM



GETINGE LANCER recommends to photocopy or scan the processing cycle printouts.



Only the last 200 wash cycles are stored in the washer's memory

Be sure to collect the data periodically.

Access and handling of this Electronic Record has to be managed by a Customer's SOP (Site Operation Procedure).

6.2 CYCLES TRACEABILITY VIA USB SUPPORT

To guarantee the documented evidence of the wash cycle, the information can be retrieved in PDF format via a USB key from the USB port on the front of the washer.

The PDF wash cycle report includes cycle parameters, operator number, time of program start, phase duration, probe temperature during each phase, detergent and acid intake.

EXAMPLE OF TICKET

CYCLE REPORT

Program: P04 (Agarose Gel) Date: 11.05.2020 Time: 10:19:53 Machine ID: Ultima Type: 820 LX S/N: 0X014577 Cycle Nr.: 4 Started by: guest

Prewash 1: 11.05.2020-10:19:55 Locking: 00:00:05 Startup Drain: 00:00:01 Pump priming (SOFT HOT): 00:00:20 Filling (SOFT HOT): 00:01:20 Detergent (96ml): 00:00:31 Heating (SP=90.0deg.C): 00:12:31 Recycling: 00:02:01 (90.2 deg.C) Draining: 00:01:18

Prewash 2:11.05.2020-10:38:08 Pump priming (SOFT COLD): 00:00:19 Filling (SOFT COLD): 00:00:38 Recycling: 00:01:01 (71.6 deg.C) Draining: 00:01:18

Wash: 11.05.2020-10:41:31 Pump priming (SOFT HOT): 00:00:19 Filling (SOFT HOT): 00:01:20 Detergent (120ml): 00:00:37 Heating (SP=90.0deg.C): 00:09:43 Recycling: 00:02:01 (90.3 deg.C) Draining: 00:01:18

Rinse A. 11.05.2020-10:56:58 Pump priming (COLD): 00:00:19 Filling (COLD): 00:00:48 Recycling: 00:01:01 (60.1 deg.C) Draining: 00:01:17 Pump priming (COLD): 00:00:20 Filling (COLD): 00:00:43 Recycling: 00:01:01 (47.0 deg.C) Draining: 00:01:16

Additive Rinse: 11.05.2020-11:03:52 Pump priming (COLD): 00:00:19 Filling (COLD): 00:00:38 Acid (96ml): 00:00:36 Recycling: 00:02:01 (37.8 deg.C) Draining: 00:01:17

Rinse B: 11.05.2020-11:08:51 Pump priming (COLD): 00:00:19 Filling (COLD): 00:00:44 Recycling: 00:01:01 (31.8 deg.C) Draining: 00:01:17

Rinse 1: 11.05.2020-11:12:19 Pump priming (PURIFIED): 00:00:19 Filling (PURIFIED): 00:00:43 Recycling: 00:01:01 (27.6 deg.C) Draining: 00:01:18

Final Rinse: 11.05.2020-11:15:47 Pump priming (PURIFIED): 00:00:19 Filling (PURIFIED): 00:00:43 Heating (SP=80.0deg.C): 00:14:59 Recycling: 00:01:01 (80.4 deg.C) Draining: 00:01:19 Condenser: 00:05:00

Drying: 11.05.2020-11:39:16 Draining: 00:00:30 Drying: 00:24:59

Cooling: 11.05.2020-12:04:49 Cooling: 00:05:00

Cycle completed successfully

End date: 11.05.2020 End time: 12:09:53

**** G E T I N G E ****

6.3 CYCLES TRACEABILITY VIA PRINTER (IF APPLICABLE)

To ensure cycle documentation, information can be printed on a printer.

The printout gives documented evidence of the cleaning process including cycle parameters, operator number, time of program start, phase duration, probe temperature during each phase, detergent and acid intake.

EXAMPLE OF TICKET

CYCLE REPORT

Program: P04 (Agarose Gel)
Date: 05.25.2020
Time: 10:02:43
Machine 10: Ultima
Type: 910 LX
Syn: 08127957
Cycle Nn.: 4
Started by: guest

Prewash 1: 05.25.2020-10:02:45 Locking: 00:00:06 Startup Drain: 00:00:01 Pump prining (SOFT HOT): 00:01:00 FIIIng (SOFT HOT): 00:00:01 Detergent (104m): 00:00:30 Heating (SP=90.0deg.C): 00:08:45 Recycling: 00:02:01 (90.7 deg.C) Draining: 00:01:21

Prewash 2: 05.25.2020-10:16:37 Pump priming (SOFT COLD): 00:00:59 Filling (SOFT COLD): 00:00:05 Recycling: 00:01:01 (39,2 deg.C) Oraining: 00:01:19

Wash: 05.25,2020-10:20:08
Pump prining (SOFT HOT): 00:00:59
Filling (SOFT HOT): 00:00:01
Detergent (130nl): 00:00:37
Heating (SP=90.0deg.C): 00:08:13
Recucting: 00:02:00 (50.6 deg.C)
Regeneration: 00:00:17
Draining: 00:01:03

Rinse A: 05.25.2020 - 10:33:20 Pump prining (COLD): 00:00:59 Filling (COLD): 00:00:05 Recycling: 00:01:10 (35.4 deg,C) Draining: 00:01:10 (35.4 deg,C) Pump prining (COLD): 00:01:00 Filling (COLD): 00:05 Recycling: 00:01:10 (20.8 deg,C) Draining: 00:01:10

Additive Rinse: 05.25.2020-10:40:27 Pump prining (COLD) : 00:00:59 Acid (104ml) : 00:00:36 Recycling: 00:02:01 (17.7 deg.C) Draining: 00:01:19

Rinse B: 05.25.2020-10:45:30 Pump priming (COLD): 00:00:59 Filling (COLD): 00:00:05 Recycling: 00:01:01 (14.9 deg.C) Draining: 00:01:19

Rinse I: 05.25,2020-10:49:01 Pump priming (PURIFIED) : 00:00:59 Filling (PURIFIED) : 00:00:05 Recycling: 00:01:01 (55.8 deg.C) Draining: 00:01:17 Final Rinse; 05.25.2020-10:52:30 Pump prining (PURIFIED) : 00:00:59 Filling (PURIFIED) : 00:00:05 Heating (SP-80.0deg.C): 00:05:04 Recycling: 00:01:01 (80.6 deg.C) Draining: 00:01:19

Orying: 05.25,2020:11:01:05 Draining: 00:00:30 Orying: 00:24:59

Cooling: 05.25.2020-11:26:38 Cooling: 00:05:00

Cycle completed successfully

End date: 05.25.2020 End time: 11:31:41

**** G E T I N G E ****

6.4 ADDITIONAL TRACEABILITY INFORMATION FOLLOWING SELECTED OPTIONS

The washer can be equipped with an optional system to check and validate the washing cycle process.

The value is indicated whether on the cycle ticket if the washer is equipped with a printer, on the PDF ticket recoverable using a USB key but also on the ticket viewing interface.

Water temperature (1):

Water temperature, the water temperature is measured, both the preset and measured values are printed out. If the washer is equipped with the dual temperature probe option, 2 values will be indicated (option not applicable on LX).

Pressure transmitter (2):

A pressure transmitter for checking the correct functioning of the recirculation pump.

The transmitter measures the value of the pressure of the recirculation pump. If the value is lower than the minimum set value, an alarm will be triggered and the machine will stop the process.

Detergent / acid flowmeters (3):

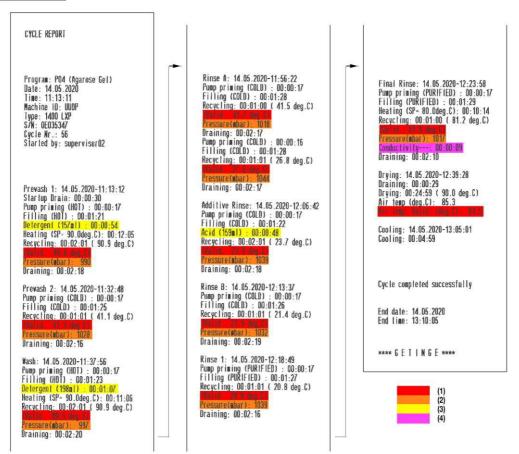
The two product lines are individually fitted with a flowmeter.

Flow meters measure the exact quantity of chemicals intake by the machine during the cycle.

Conductivity of final rinse water (4)

Quality control of the washing process by measuring the conductivity of the water of the final rinse. The obtained value is printed out. If the value is higher than the set value an alarm will be raised and the machine will stop the process.

EXAMPLE OF TICKET



7 ALARMS

7.1 INCIDENTS

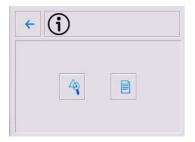
INCIDENTS	SOLUTION / VERIFICATION	
The detergent or neutralizing agent does not enter	The tube is blocked.	
in the washer	The tank is empty.	
Titilo washer	The pump hose is pinched.	
	It is not connected to the power supply.	
The second second for the second seco	There is main power on OFF.	
The washer does not function	The circuit breaker protecting the electrical control circuit has	
	been tripped. CONSULT THE MAINTENANCE DEPARTMENT.	
	One of the washing arms is touching one or more of the items	
Abnormal noise	to be washed.	
Sacra controvidado dos	Check the loading of the washer	

7.2 ALARMS HISTORY

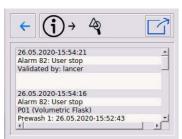


In standby and during operation, Information about the washer (Alarm History and Washer Documentation) is available.

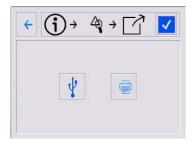
Pressing opens a menu where you can pick from Alarm History or Washer Documentation.



Pressing the will allow you to view the last ten alarms stored in memory. Use the page up/down icons to scroll through the alarms.



is only active in Standby mode. Pressing the icon will allow you to export the alarm history data to USB or the printer by pressing on the appropriate icon.



(If the printer option is not fitted on washer, the printer icon will be shown in grey to indicate that it is not active.)

7.3 WARNINGS



After the Start icon is pressed, the system checks for any problems and will notify the operator via warning messages.



WARNINGS	SOLUTION / VERIFICATION	
HOT CHAMBER	The following message is displayed if the temperature inside the washing chamber is above the safety temperature set point for door opening. At the end of the cycle, let the washer chamber and contents cool before opening the chamber door.	
ACTIVE ALARM	At least one alarm is active	
RECIPE ERROR	The selected recipe is not configured	
ENTER A BATCH ID	Required batch ID is missing.	
DOOR OPEN	Door is opened or unlocked.	
ADDITIVE 1 LOW LEVEL	The following message is displayed at the start of the cycle.	
ADDITIVE 2 LOW LEVEL	It is indispensable to replace the tank. Consider checking the level of other product tanks in order to avoid another alarm.	
ADDITIVE 3 LOW LEVEL ** extra alkaline dosing pumpoption	The warning for low level prohibits the equipment to start if not the corrective action has been made to change chemical canister.	
ADDITIVE 4 LOW LEVEL ** extra alkaline dosing pumpoption	corrective action has been made to change chemical canister.	

ADDITIF1 CALIBRATION ISSUE	
ADDITIF 2 CALIBRATION ISSUE	The following message is displayed at the start of the cycle. It is mandatory to calibrate the product pump. Check if other pump must be calibrated in order to avoid another alarm.
ADDITIF 3 CALIBRATION ISSUE ** extra alkaline dosing pump option	This warning does not prevent the washer from starting, but a "calibration invalid" blocking alarm will appear when the product is taken during the cycle.
ADDITIF 4 CALIBRATION ISSUE ** extra alkaline dosing pump option	taken daning the cycle.
END OF CYCLE: OPEN THE DOOR	Successful cycle completed. System waiting.
SERVICE TIME	After turning on the machine, the reminder of the upcoming preventative maintenance is shown on the display. Acknowledge the reminder. Schedule a preventative maintenance service call.
REGENERATION RENEWAL * only for washers with water softener	The following message is displayed at the start of the cycle. Fill the salt pot located inside the washer.
CYCLE RESUME	The following message is displayed when a power failure has occurred during a wash cycle. It allows to restart the cycle at the beginning of the sequence where the power failure has occurred. However, "CYCLE RESUME" parameter must be selected in the system options.

7.4 ALARMSTABLE



If an alarm occurs, the wash cycle is aborted and the appropriate alarm message is shown in red. $\,$



ALARMS		SOLUTION / VERIFICATION	
1	DRAINING FAULT	During the draining phase, the washer as not been drained within the configured drain time. - Check that drain pipe or drain valve/pump is not obstructed. - Verify operation of drain pump/valve. - Check drain time.	
10	FILLING FAULT	During the filling phase, the water high level switch was not reached within the configured filling time. - Check opening of valves. - Check pressure of water supply. - Check filling time	
18	WATER LEVEL PRESSURE SWITCH DEFECT *pressure transmitter option	The pressure switch indicates a water level inconsistency. - Check the opening of the water inlet valves - Check the pressure switch and its wiring - Check the draining system	
20	COLUMN PRESSURE: OUT OF RANGE-LOW *pressure transmitter option	Pressure is lower than the minimum set point programmed - Check that the pump operates - Check the door switches - Check the transmitter calibration. - Check the foaming issues within the chamber	
21	COLUMNPRESSURE: UNEXPECTED *pressure transmitter option	Pump pressure is above minimum set point value when pump not running. - Check the transmitter (look at the pressure and calibrate it if necessary). - Check the low limit value for the pressure alarm. (This value is used for this alarm). - Pressure transmitter must give 0 when the pump is stopped	
22	COLUMN PRESSURE: OUT OF RANGE-HIGH *pressure transmitter option	Pump pressure is above Max set point value - Check the transmitter - Verify that there is no blockage in the column.	
30	ADDITIVE 1 INTAKE: OUT OF RANGE-LOW * flowmeters option		
31	ADDITIVE 2 INTAKE: OUT OF RANGE-LOW * flowmeters option	During the cycle, the necessary amount of product is not correctly dosed - Check the tank level,	
32	ADDITIVE 3 INTAKE: OUT OF RANGE – LOW * flowmeters option ** optional extra alkaline dosing pump	- Check the dosing pump, the flowmeter.	
33	ADDITIVE 4 INTAKE: OUT OF RANGE-LOW * flowmeters option ** optional extra alkaline dosing pump		

34	ADDITIVE 1 INTAKE: UNEXPECTED * flowmeters option		
35	ADDITIVE 2 INTAKE: UNEXPECTED * flowmeters option	A flow of product is detected outside a product intake phase.	
36	ADDITIVE 3 INTAKE: UNEXPECTED * flowmeters option ** optional extra alkaline dosing pump	- Check the flowmeter.	
37	ADDITIVE 4 INTAKE: UNEXPECTED * flowmeters option ** optional extra alkaline dosing pump		
38	ADDITIVE 1 INTAKE: OUT OF RANGE – HIGH * flowmeters option		
39	ADDITIVE 2 INTAKE: OUT OF RANGE – HIGH * flowmeters option	During the cycle, the necessary amount of product is not correctly dosed	
40	ADDITIVE 3 INTAKE: OUT OF RANGE-HIGH * flowmeters option ** optional extra alkaline dosing pump	- Check the dosing pump, the flowmeter.	
41	ADDITIVE 4 INTAKE: OUT OF RANGE – HIGH * flowmeters option ** optional extra alkaline dosing pump		
50	WATER TEMPERATURE EXCEEDS SET POINT	The temperature is higher than set point + tolerance. - Check the "HIGH LIMIT" parameter for water heating. - Check the water inlet temperature. - Verify the probe reads correctly. - Verify that the steam valve is closed (if steam heating option). - Verify if the heating contactor is open.	
51	HEATING FAULT	During the heating phase if the water temperature has not increase the set minimum slope. - Check electrical connection, state of heating elements and safety thermal cut-out. - Verify that steam valve is opening (steam heating option) - Check the "INCREASE" parameter for water heating.	
52	COLUMN DRYING FAULT *Only LXP and 1800LXA models	During the heating phase the temperature has not reached theset point within 5 minutes	
53	COLUMN DRYING FAULT (column 2 on 1800 LXA) *Only 1800 LXA models	- Check the heaters - Check the probe	
54	CHAMBER HEATING MAXIMUM TEMPERATURE	The temperature is over the maximum allowed - Check the probe max value parameter. - Check that the steam valve is operating properly (steam heating option) - Check the probe - Check the contactor	
55	COLUMN DRYING MAXIMUM TEMPERATURE *Only LXP and 1800LXA models	The temperature is over the maximum allowed - Check the probe max value parameter.	
56	COLUMN 2 DRYING MAXIMUM TEMPERATURE *Only 1800LXA model	- Check the probe	
66	ADDITIF1 CALIBRATION ISSUE	Calibration of the product pump has not been performed Calibrate the dosing pump.	

67	ADDITIF 2 CALIBRATION ISSUE	
68	ADDITIF 3 CALIBRATION ISSUE * ** optional extra alkaline dosing pump	
69	ADDITIF 4 CALIBRATION ISSUE ** optional extra alkaline dosing pump	
70	HEATING: PROBE DEFECT	Open wire, overrange or underrange - Verify the probe. - Check the wire connections. During this fault, if the washer chamber is hot, the door remains locked because of the risk of burns. It can be unlocked, by the technician owner level, from the diagnostics mode by pressing , then the unlock function. A pop-up will ask you to confirm that you want to open the door.
71	COLUMN DRYING: PROBE DEFECT	Open wire, overrange or underrange - Verify the probe.
72	COLUMN 2 DRYING : PROBE DEFECT *Only 1800LXA models	- Check the wire connections.
78	FINAL RINSE CONDUCTIVITY * Conductivity measurement option	The final rinse conductivity is higher than the limit configured in the program settings. - Check if the program is adapted to wash the parts, the water quality, the conductivity probe wiring. - Check set point. - Check conductivity probe calibration.
80	EMERGENCY STOP *only 1800LXA	To unlock the emergency stop button, turn the red head clockwise
82	USERSTOP	Cycle aborted by user.
83	POWER FAULT	The cycle was interrupted by a power cut, depending on your washer configuration, you will have to either: - Restart the washing cycle from the very beginning - Or restart the cycle at the beginning of the sequence stopped during the power cut (if the system configuration of your washer is "cycle resume")
90	LOADING DOOR FAULT	The door was detected opened during cycle or failed to close/lock on request Check door closing and door switches.
97	SAMPLING TIME ELAPSED *only for washer with sampling option	Sampling break was not acknowledged within the sampling alarm delay. - Allow enough time to do the sampling. - Acknowledge sampling when done.
98	AIR PRESSURE *products stop vales option and 1800LXA	Air pressure not detected - Check the compressed air supply Check PLC I/O and wiring.
100	WATER HEATING TEMPERATURE PROBES: MAXIMUM DIFFERENCE * dual temperature probe option	The difference of temperature between the probes of the washer and the probes of the Validation is too important (superior to 10°C). - Verify the temperature of the probes for the washer and for the Validation probes.

10	DRYING HEATING TEMPERATURE PROBES: MAXIMUM DIFFERENCE * dual temperature probe option	- Change the settings if necessary.
12	DRYING HEATING TEMPERATURE PROBES: MAXIMUM DIFFERENCE BETWEEN COLUMNS * only 1800LXA	During drying, the air temperatures difference between the 2 columns is greater than the set point - Check the resistances - Check the probes

7.5 PROBLEM ON EXPORTING FILES ON USB KEY



When exporting to USB, this pop-up is displayed if it fails.

Check the status of the USB port of the washer, the state of your USB key, if necessary change it and repeat the operation.

7.6 WASHER PARAMETER READ FAILURE



This pop up can appear during washer parameters read failure, it prevents to use it with wrong parameters.

Please contact the GETINGE SAV.

After reconfiguring the washer and entering the correct serial number, it will be necessary to restart the washer to reactivate programs selection.

8 MAINTENANCE OF THE WASHER

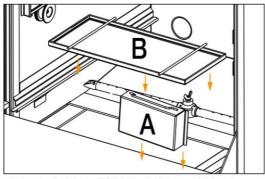


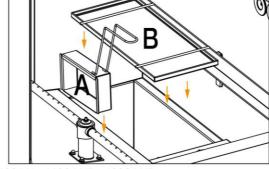
NEVER USE OR PLACE IN THE WASHER REMMANTS OF PRODUCTS SUCH AS ACETONE, SOLVANTS, OIL, SULFO-CROMIC, PETROL DERIVATIVES, ACIDS (SULFURIC, NITRIC, CLORHIDRIC, EVEN AT LOW CONCENTRATIONS), ETC.



DURING THE CLEANING OPERATIONS INSIDE THE CHAMBER, IT IS CONVENIENT TO WEAR SAFETY GLOVES AND TO PAY ATTENTION TO THE EVENTUAL EDGE TOOLS (NEEDLES, INSTRUMENTS...) WHICH COULD BE PLACED INSIDE THE FILTERS OF THE BOTTOM OF THE CHAMBER.

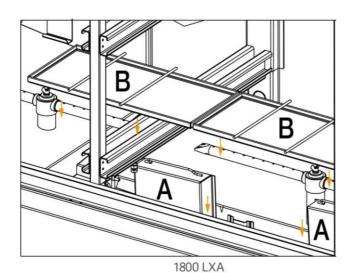
8.1 CHAMBER FILTERS





810LX-815 LX-820 LX-910 LX-1300 LX

1400 LX - 1400 LXP - 1600 LXP



Clean the filters after each cycle.

Place them correctly.

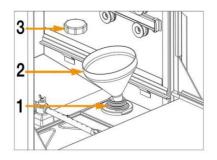
Order of fitting: A-> B

8.2 REGENERATING OF SOFTENER (OPTION)

Only for washers withwater softener (option).

When the display unit indicates "SALT RECHARGE", it is essential to fill the salt pot located at the bottom of the chamber, inside the washer. Use <u>special softening</u>, regenerating salt.

- 1 Salt pot
- 2 Filling funnel
- 3 Salt pot cap





DO NOT FORGET TO REINSTALL SALT POT CAPAFTER FILLING WITH SALT

8.3 STRAINER FILTERS

Check the cleanness of the strainer filters and clean them if needed.

Debris in the filters will increase the filling times and could activate the alarm 'FILLING FAULT".

The filters should be replaced each year.



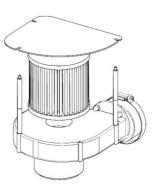
8.4 DRYING AIR FILTERS

(Not applicable to 810LX and 815LX)

The life duration of the drying air filters depends on the rate of use of the washer and the room air quality.

We recommend the preventive change of the drying air filters at least one time every year.

Check visually the state of the drying air filters every 6 months as stated in the preventive maintenance scheme



8.5 EXTERNAL MAINTENANCE OF THE WASHER

GETINGE LANCER washers are entirely covered with panels (bodywork) in stainless steel AISI 304L.

8.5.1 CLEANING THE TOUCH SCREEN PANEL

To clean the touch panel optimally, be sure to use a non-abrasive cloth:

- Turn off your device before cleaning.
- Choose an antistatic microfiber cloth.
- First clean your screen with the cloth by forming small circles.

Only when absolutely necessary, you can moisten the cloth with distilled water or a product specifically designed for touch screens before repeating the circular motion.



DO NOT APPLY TOO MUCH PRESSURE ON SCREEN WHEN CLEANING

8.5.2 CLEANING METHOD

Regular maintenance cleaning is done using a soft cleaning product.

In the event that regular cleaning tasks have been neglected for too long, we recommend using a special cleaner.

The product must be wiped on using a cloth or a soft sponge, being careful to rub the stainless steel in the direction of the grain on the panel to avoid any scratches.

For drying, good practice is to use a rubber scraper, as you would on glass surfaces; this avoids any shimmering effect that can be produced when cleaning with a cloth.



AVOID WATER RINSING DIRECTLY ON THE WASHER

8.5.3 CLEANING PRODUCTS FOR EXTERIOR PANELS

DETERGENTS, WASHING LIQUIDS:

All types of detergents, washing liquids and commercial soaps are generally usable, as long as they do not contain chlorinated products.

ABRASIVE POWDERS:

These products can scratch stainless steel surfaces and therefore change the appearance, at least in small areas. However, they can be useful to remove stubborn stains through rubbing.

ACID PRODUCTS:

The use of acid-based cleaning products should only be used in special cases.

Acetic acid can be used to remove stains caused by the buildup of limescale.

There are phosphoric acid or nitric acid based products that are specially designed for cleaning stainless steel. Strictly follow the manufacturer instructions when using them.



AFTER CLEANING IT IS NECESSARY TO ABONDANTLY RINSE WITH A SOFT CLOTH TO REMOVE TRACES OF THE CLEANING PRODUCTS THAT WERE USED

8.6 SHUT DOWN AT END OF DAY

a) SHUT OFF THE WATER INLET VALVES so that the lines are not left pressurized. Do not forget to open them again before using the washer.

b) SHUT DOWNTHE APPLIANCE.

8.7 PREVENTIVE MAINTENANCE

GETINGE LANCER'S TECHNICAL ASSISTANCE SERVICE recommends to carry out a preventive maintenance action every year in order to guarantee the validity of the washing cycles and to ensure the operation of the washer.

The preventive maintenance reduced the risks of stoppings of the washer due to breakdowns and makes it possible to lengthen the lifespan of the equipment.

The washer stores the operational hours in memory. At the end of 900 operating hours, a message on the screen is shown to indicate that preventive maintenance is required.

The 900 hours are a guide line and it is advisable in the case of less frequent use of the washer to perform the preventive maintenance on an annual basis

Depending on the countries where the washer is used and the local norms, a higher frequency of preventive maintenance visits can be necessary.

8.8 PREVENTATIVE MAINTENANCE SCHEDULE

FUNCTION	Daily (1)	Biannual (2)	1 Year (2)
Clean filter system in chamber.	Χ	Χ	Χ
Check chemical containers for any leakage.	Χ	X	Χ
Ensure chemical hoses are not pinched.	X	X	X
Clean exterior panels.	Χ	X	Χ
Inspect water supply hoses for cracks, bulges, and leaks.		X	X
Ensure the water hose seals and filters are clean and have no cracks.		X	Χ
Check chemical supply hoses for cracks, bulges and leaks.		X	Χ
Inspect internal tubing on chemical pumps for wear.		X	Χ
Check chemical level sensors for correct operation.		X	Χ
Ensure all panels are properly secured.		X	Χ
Check all internal hoses for cracks, bulges and leaks.		X	Χ
Ensure all hose clamps are properly tightened.		X	Χ
Check all column seals for leaks and cracks.		X	Χ
Check spray arm support seals for leaks and cracks.		X	Χ
Check spray arms and bushings for wear.		X	Χ
Check door seal and gasket for leakage.		X	Χ
Inspect the door springs, door wheels, door cable, hooks, gas spring, mounting hardware, and door switch for proper operation.		Χ	Χ
Change the Hepa filter of the dryer (if applicable)		X	Χ
Check recycling and emptying pump seals for leakage and quiet operation.			Χ
Check for lose electrical connections at components and electronic cards.			Χ
Verify the correct operation of all relays and their associated components.			Χ
Verify the correct operation of the fan of the dryer (if applicable)			Χ
Verify the correct operation of the non-return valve in the drying system (if applicable)			Χ

⁽¹⁾ Daily maintenance must be handled by users staff.

⁽²⁾ Others maintenances (bi-annual, 1 year) must be carry out by the GETINGE LANCER's technical assistance service.

8.9 RECOMMENDED SPARE PARTS

8.9.1 RECOMMENDEDSPARE PARTS 810 LX-815 LX

Description	Part #	Quantity/ Machine
Door Spring	12010003	2
Door wheels	46020064	2
Door cable	46040004	2
Emptying Pump 50/60 hz	23010150	1
Pressurestat	28020066	1
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1
Detergent pump	23030010	1
Main Pump50/60hz	23010149	1
Door Seal	14050003	1
Bottom Door Seal	80010615	1
Column Seal	14030041	2
Threaded Connection	33080026	2
Water Inlet Filter/Seal	17010025	3
Spray Arm Washer	31040012	2
Heating Relay	20030007	1
Column connection	33080026	2

8.9.2 RECOMMENDED SPARE PARTS 820 LX

Description	Part#	Quantity/Machine
Door Spring	12010003	2
Door wheels	46020064	2
Door cable	46040004	2
Emptying Pump 50/60hz	23010150	1
Pressurestat	28020066	1
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1
Detergent pump	23030010	1
Main Pump 50/60hz	23010149	1
Door Seal	14050003	1
Bottom Door Seal	80010615	1
Column Seal	14030041	2
Threaded Connection	33080026	2
Water Inlet Filter/Seal	17010025	3
Spray Arm Washer	31040012	2
Heating Relay	20030007	1
HEPA filter of the dryer	17020033	1
Fan of the dryer	23080170	1
Column connection	33080026	2

8.9.3 RECOMMENDED SPARE PARTS 910 LX

Description	Part#	Quantity / Machine
Door Spring	12010003	2
Door wheel	46020064	2
Door cable	46040004	2
Emptying Pump 50/60hz	23010150	1
Pressurestat	28020066	2
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1
Detergent pump	23030010	1
Main Pump 50/60hz	23010149	1
Door Seal	14050003	1
Bottom Door Seal	80010615	1
Column Seal	14030041	3
Threaded Connection	33080026	3
Water Inlet Filter/Seal	17010025	3
Spray Arm Washer	31040012	2
Heating Relay	20030007	1
Drying Hepa filter	17020033	1
Fan of the dryer	23080170	1
Column connection	33080026	3

8.9.4 RECOMMENDED SPARE PARTS 1300 LX

Description	Part#	Quantity / Machine
Door Spring	12010003	2
Door wheel	46020064	2
Door cable	46040004	2
Emptying Pump 50/60hz	23010150	1
Pressurestat	28020066	2
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1
Detergent pump	23030010	1
Main Pump 50hz	23010117	1
Main Pump 60hz	23010118	1
Capacitor 50hz	26010015	1
Capacitor 60hz	26010016	'
Door Seal	14050003	1
Bottom Door Seal	80010615	1
Column Seal	14030041	4
Threaded Connection	33080026	4
Water Inlet Filter/Seal	17010025	3
Spray Arm Washer	31040012	2
Heating Relay	20030007	1
Drying Hepa filter	17020033	1
Fan of the dryer	23060027	1
Column connection	33080026	4

8.9.5 RECOMMENDED SPARE PARTS 1400 LX / 1400 LXP

Description	Part #	Quantity / Machine
Emptying Pump 50hz	23010150 23010060	1
Emptying Pump 60hz Pressurestat	28020066	2
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1
Detergent pump	23030003	1
Main Pump 50hz	20000010	·
• 400v tri/50hz	23010052	
 400v tri without neutral/50hz 	23010052	
 230v tri/50hz 	23010052	
• 200v tri/50hz	23010048	
Main Pump 60hz		1
• 208v 60hz	23010036	
 230v tri/60hz 	23010055	
 480v tri/60hz 	23010055	
 400v tri/60hz 	23010055	
 400v tri without neutral /60hz 	23010055	
Door Seal	14040025	1
Bottom Door Seal	80010641	1
Column Seal	14030041	4
Threaded Connection	33080026	4
Water Inlet Filter/Seal	17010025	3
Heating Relay	20030007	2
Drying Hepa filter	17020033 23080170	3 1
Fan of the dryer Steam heating valve	38010124	1
Column connection	33080026	4
Column connection	33000020	4

8.9.6 RECOMMENDED SPARE PARTS 1600 LXP

Description	Part#	Quantity/Machine
Emptying Pump 50hz Emptying Pump 60hz	23010009 23010060	1
Pressurestat	28020066	2
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1
Detergent pump	23030010	1
Main Pump 50hz		
 400v tri/50hz 	23010054	
 400v tri without neutral/50hz 	23010054	
 230v tri/50hz 	23010054	
 200v tri/50hz 	23010054	
Main Pump 60hz		1
• 208v 60hz	23010050	
 230v tri/60hz 	23010056	
 480v tri/60hz 	23010056	
 400v tri/60hz 	23010056	
 400v tri sans neutre/60hz 	23010056	
Door Seal	14040027	1
Bottom Door Seal	80011532	1

Column Seal	14030041	5
Threaded Connection	33080026	5
Water Inlet Filter/Seal	17010025	3
Heating Relay	20030007	3
HEPA filter of the dryer	17020033	3
Fan of the dryer	23080170	1
Steam heating valve	38010124	1
Column connection	33080026	5

8.9.7 RECOMMENDED SPARE PARTS 1800 LXA

Description	Part #	Quantity / Machine
Emptying Pump 50hz	23010009	1
Emptying Pump 60hz	23010060	·
Pressurestat	28020066	2
Autoclude™ Internal tubing	23080014	2
Acid pump	23030009	1_
Detergent pump	23030010	1
Main Pump 50hz		
 400v tri/50hz 	23010052	
 400v tri without neutral/50hz 	23010052	
 230v tri/50hz 	23010052	
 200v tri/50hz 	23010048	
Main Pump 60hz		1
• 208v 60hz	23010036	
 230v tri/60hz 	23010055	
 480v tri/60hz 	23010055	
 400v tri/60hz 	23010055	
 400v tri without neutral /60hz 	23010055	
Door Seal	14040046	1
Column Seal	14030041	8
Column connection	33080026	8
Water Inlet Filter/Seal	17010025	6
Heating Relay	20030007	4
Drying Hepa filter	17020033	4
Fan of the dryer	23080170	1
Steam heating valve	38010124	1

8.10 DISPOSAL OFWASHER

At the end of life of the washer, the users' attention is drawn to the requirement not to dispose of waste electrical and electronic equipment (WEEE) as unsorted municipal waste and to collect such WEEE separately.



ULTIMA series WASHING PROGRAMS

9 WASHING PROGRAMS

9.1 FACTORY PROGRAMMED CYCLE



PROGRAMS PREESTABLISHED WITH THIS WASHER HAVE BEEN VALIDATED WITH THE GETINGE LANCER BRAND WASHING PRODUCTS, the LLL DETERGENT AND THE NLL NEUTRALIZER.

9.1.1 CONSUMPTION OF WATER PER OPERATION AND MODEL

The estimated consumption of water per operation (depending on the baskets used):

	810 LX 815 LX	820 LX	910 LX	1300 LX	1400 LX 1400LXP	1600LXP	1800 LXA
Estimated consumption of water per operation (depending on the used baskets	12 liters	12 liters	13 liters	15 liters	20 liters	30 liters	40 liters

9.1.2 LABELLING OF WATERS ACCORDING TO STANDARD AND OPTIONS

Water designation	Standard washer	Washer with softener option*
Water 1	Cold Water	Cold Water
Water 2	Purified Water	Purified Water
Water 3*	Hot Water *	Hot Water *
Water 4		Cold Softened Water
Water 5		Hot Softened Water

^{*} Not applicable on 810LX and 815 LX

9.1.3 NUMBERS ANDFACTORY PROGRAMMES NAMES

Programme number	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
Programme name	Volumetric Flasks	Microbiology	Chemistry Biology	Agarose Gel	Eco

ULTIMA series WASHING PROGRAMS

9.1.4 810 LX-FACTORY PROGRAMMED CYCLE

* Please refer page 71 for the water's name

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	1	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	24	24	24	96	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	12	12	12	48	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	1	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	/	/	/	0	/
PREWASH 2 DETERGENT	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	'/	,	/	/	,
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	/	/	,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	'/	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	1	1	1	1	1
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	96	96	96	120	96
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	48	48	48	60	48
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	1	1	,	,	,
RINSE A TEMPERATURE	0 TO 95 C	/,	/,	2	2	/,
ACID RINSE TIME	0 TO 29 MN 59S	2	/	2	2	7
FILLING	1/2/3/4/5*	1	2 1	1	1	2 1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	96	96	96	96	96
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	192	192	192	192	192
				192	192	192
RINSE TIME B	0 TO 29 MN 59S	1	1	I	1	1
FILLING	1/2/3/4/5*	1	I,	1	1	1,
RINSE B TEMPERATURE	0 TO 95 °C	/,	/	/,	/,	/,
RINSE B	0 TO 9	/	-2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	/	/	/	/	/
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	/	/	/	/	/
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSETIME 4	0 TO 29 MN 59S	/	/	/	/	/
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	/	/	/	/	/
DRYING	0 TO 110°C	,	/	,	,	,
COOLING	0 TO 89 MN 59S	/	1	,	/	,
COOLING	0 10 03 IVIIV 335	/	/	/	/	/

9.1.5 815 LX-FACTORY PROGRAMMED CYCLE-STANDARD

PREWASH TIME	SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH 1 TEMPERATURE OTO 9999 ml 24 24 24 24 96 / OPTION. PREWASH 1 DETERGENT 2 OTO 9999 ml OTO 9999 ml OTO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PREWASH TIME 1			2		2	0
PREWASH IDETERGENT	FILLING	1/2/3/4/5*	1	1	1	1	/
OPTION: PREWASH 1 DETERGENT 2	PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
OPTION: PREWASH 1 NEUTRALIZATION	PREWASH 1 DETERGENT	0 TO 9999 ml	24	24	24	96	/
PREWASH TIME 2	OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
FILLING	OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	12	12	12	48	/
FILLING	PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
PREWASH 2TEMPERATURE 0 TO 9999 ml 0 TO 0999 ml 0 TO 099			/	/	/	-	/
PREWASH 2 DETERGENT			,	,	,		,
OPTION: PREWASH 2 DETERGENT 2			,	,	,		,
OPTION:PREWASH 2 NEUTRALIZATION			,	,	',	-	,
PREWASH TIME 3			',	',	',		,
FILLING			7			-	7
PREWASH 3 TEMPERATURE PREWASH 3 DETERGENT 1 OTO 9999 ml			,	,	,	,	,
PREWASH 3 DETERGENT			/,	/,	/,	/,	/,
OPTION: PREWASH 3 DETERGENT 2			/,	/	/,	/,	/,
OPTION: PREWASH 3 NEUTRALIZATION			/,	/,	/,	/,	/,
WASH TIME			/	/	/	/	/
FILLING 1/2/3/4/5* 1			/	/	/	/	/
WASH TEMPERATURE 0 TO 95 °C 50 85 70 90 50 WASH DETERGENT 0 TO 9999 ml 96 96 120 96 OPTION: WASH DETERGENT 2 0 TO 9999 ml 0 0 0 0 0 OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 48 48 48 60 48 RINSE TIME A 0 TO 29 MN 59S 1<		0 10 20 11111000					
WASH DETERGENT						-	
OPTION: WASH DETERGENT 2 0 TO 9999 ml 0 48 8 48 48 48 60 48 8 60 48 8 60 48 8 60 48 8 60 48 8 60 48 8 60 48 8 60 48 8 6 60 48 8 6 7							
OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 48 48 48 60 48 RINSE TIME A 0 TO 29 MN 59S 1	WASH DETERGENT		96	96	96	120	96
RINSETIME A 0TO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
FILLING RINSE A TEMPERATURE OTO 95 °C / ACID RINSE TIME OTO 99 MN 59S 2 2 2 2 7 ACID RINSE TIME OTO 99 MN 59S 2 2 2 2 2 2 2 2 2 2 2 2 2 3 CILLING OTO 99 MN 59S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 CIRLING OTO 99 MN 59S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	48	48	48	60	48
RINSE A TEMPERATURE 0TO 95 °C	RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
RINSE A TEMPERATURE 0TO 95 °C / / / / 2 2 / / RINSE A COTO 9 / / 2 2 2 / A CID RINSE TIME 0TO 29 MN 59S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A 0 TO 9	RINSE A TEMPERATURE		/	/	/	/	/
ACID RINSE TIME			,	,	2	2	,
FILLING ACID RINSE TEMPERATURE 0 TO 95 °C 0 0 0 0 0 0 0 0 0 0 0 NEUTRALIZING ACID 0 TO 9999 ml 96 96 96 96 96 96 0 FOOD 1000 STORE SET SET SET SET SET SET SET SET SET SE			2	2	_		2
ACID RINSE TEMPERATURE 0 TO 95 °C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							_
NEUTRALIZING ACID			-	-			-
OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml 192			-	-	-	-	-
RINSE TIME B							
FILLING RINSE B TEMPERATURE OTO 95 °C PRINSE B OTO 99 PRINSE. TIME 1 OTO 29 MN 59S OTO 99 PRINSE I TEMPERATURE OTO 29 MN 59S OTO 99 PRINSE I TEMPERATURE OTO 29 MN 59S OTO				102		102	132
RINSE B TEMPERATURE 0TO 95 °C / / / / / / / / / / RINSE B 0TO 9 / 2 / / / / / / / / / / / / / / / / /			1	1	1	1	1
RINSE B 0 0 TO 9 / 2 / / / / RINSE.TIME 1 0 TO 29 MN 59S 1 0 1 1 1 0 FILLING 1/2/3/4/5* 2 / 2 2 2 / RINSE 1 TEMPERATURE 0 TO 29 MN 59S / / / / / / RINSE TIME 2 0 TO 29 MN 59S / / / / / / RINSE 2 TIME TEMPERATURE 0 TO 95 °C / / / / / / RINSE 2 TIME TEMPERATURE 0 TO 29 MN 59S / / / / / / RINSE 3 TIME 3 0 TO 29 MN 59S / / / / / / RINSE 3 TEMPERATURE 0 TO 29 MN 59S / / / / / / RINSE 3 TEMPERATURE 0 TO 29 MN 59S / / / / / / RINSE 3 TEMPERATURE 0 TO 29 MN 59S / / / / / / RINSE 4 TEMPERATURE 0 TO 29 MN 59S / / / / / / RINSE 4 TEMPERATURE 0 TO 29 MN 59S / / / / / / FILLING 1/2/3/4/5* / / / / / RINSE 4 TEMPERATURE 0 TO 95 °C / / / / / FINAL RINSE TIME 0 TO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1	1	1	ı,
RINSE. TIME 1 0 TO 29 MN 59S 1 0 1 1 1 0 FILLING 1/2/3/4/5* 2 / 2 2 2 / 2 2 / 2 1 / 2 2 2 / 2 1 / 2 2 2 / 2 1 / 2 2 2 / 2 1 / 2 2 2 2			/,	/	/,	/,	/,
FILLING 1/2/3/4/5* 2 / 2 2 / RINSE 1TEMPERATURE 0 TO 95 °C /			/	2	/	/	/
RINSE 1 TEMPERATURE 0 TO 95 °C / / / / / / / / / / / / / / / / / /			1	0	1	1	0
RINSE TIME 2 0TO 29 MN 59S / / / / / / / / / / / / RINSE 2 TIME TEMPERATURE 0TO 95 °C / / / / / / / / / / / / / / / / / /		. 1 - 1 - 1 - 1 -	2	/	2	2	/
FILLING 1/2/3/4/5* /			/	/	/	/	/
RINSE 2 TIME TEMPERATURE 0 TO 95 °C /			/	/	/	/	/
RINSE TIME 3 0 TO 29 MN 59S / / / / / / / / / / / / RINSE 3 TEMPERATURE 0 TO 95 °C / / / / / / / / / / / / / / / / / /	FILLING	1/2/3/4/5*	/	/	/	/	/
FILLING 1/2/3/4/5* /			/	/	/	/	/
FILLING 1/2/3/4/5* /	RINSE TIME 3	0 TO 29 MN 59S	/	/	/	/	/
RINSE 3 TEMPERATURE 0 TO 95 °C / <td< td=""><td></td><td></td><td>,</td><td>,</td><td>,</td><td>,</td><td>/</td></td<>			,	,	,	,	/
RINSE TIME 4 0TO 29 MN 59S / / / / / / / / / / / / / / / / / RINSE 4 TEMPERATURE 0TO 95 °C / / / / / / / / / / / / / / / / / /			,	,	/	/	/
FILLING 1/2/3/4/5* /			/	/	/	/	/
RINSE 4 TEMPERATURE 0 TO 95 °C /			,	,	,	,	,
FINAL RINSE TIME 0 TO 29 MN 59S 1 2 2 2			,	,	,	,	,
FILLING 1/2/3/4/5* 2			1	1	1	1	1
FINAL RINSE TEMPERATURE 0 TO 95 °C 50 80 80 80 50 DRYING TIME 0 TO 89 MN 59S / 25 25 25 / DRYING 0 TO 110°C / 100 100 /			1	2	1	1	1
DRYING TIME 0 TO 89 MN 59S / 25 25 / DRYING 0 TO 110°C / 100 100 /							
DRYING 0 TO 110°C / 100 100 /			50	-			50
			/				/
COOLING 0 TO 89 MN 59S / 5 5 /			/	100		100	/
	COOLING	0 TO 89 MN 59S	/	5	5	5	/

9.1.6 815 LX-FACTORY PROGRAMMED CYCLE-120V MONO/60HZ

SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	1	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	80	/
PREWASH 1 DETERGENT	0 TO 9999 ml	24	24	24	96	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	12	12	12	48	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	1	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	,	,	',	0	,
PREWASH 2 DETERGENT	0 TO 9999 ml	,	,	,	0	,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	,	,	',	0	,
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	,	,	',	0	,
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING		0	0	,	,	0
PREWASH 3 TEMPERATURE	1/2/3/4/5* 0TO 95 °C	/,	/,	/,	/,	/,
		/,	/,	/,	/,	/,
PREWASH 3 DETERGENT	0 TO 9999 ml	/,	/,	/,	/,	/,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/,	/,	/,	/,	/,
	0 TO 9999 ml	/	/	/	/	/
WASHTIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	1	1	1	1	1
WASH TEMPERATURE	0 TO 95 °C	50	60	70	80	50
WASH DETERGENT	0 TO 9999 ml	96	96	96	120	96
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	48	48	48	60	48
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	,	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	Ô	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	96	96	96	96	96
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	192	192	192	192	192
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE B TEMPERATURE	0 TO 95 °C	1	1	1	1	,
RINSE B	0 TO 95 C	',	2	/,	',	',
		/		/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/,
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	/	/	/	/	/
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	/	/	/	/	/
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSETIME 4	0 TO 29 MN 59S	/	/	/	/	/
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
E 11 1 11 11 11 11 11 11 11 11 11 11 11		50	60	60	60	50
						:11.1
FINAL RINSE TEMPERATURE	0 TO 95 °C	50				,
FINAL RINSE TEMPERATURE DRYING TIME	0 TO 89 MN 59S	/	25	25	25	/,
FINAL RINSE TEMPERATURE		/				/

9.1.7 820LX-FACTORY PROGRAMMED CYCLE-STANDARD

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	3	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	24	24	24	96	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	12	12	12	48	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	1	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	/	/	/	0	/
PREWASH 2 DETERGENT	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	,	,	,	,	,
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	3	3	3	3	31
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	96	96	96	120	96
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	48	48	48	60	48
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	0 10 =0 11111 000	1	1	1	1	1
RINSE A TEMPERATURE	1/2/3/4/5* 0TO95°C	,	,	,	1	1,
RINSE A TEMPERATURE	0 TO 95 C	/,	/	2	2	/,
ACID RINSE TIME	0 TO 29 MN 59S	2	7	2	2	7
FILLING	1/2/3/4/5*	1	2 1	1	1	2 1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	96	96	96	96	96
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	192	192	192	192	192
			192		192	192
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1,	1,	l,
RINSE B TEMPERATURE	0 TO 95 °C	/,	/	/,	/,	/,
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSETIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	Adjust. / Maxi	Adjust.	Maxi	Maxi	Maxi	Adjust.
COOLING	0 TO 89 MN 59S	O Aujust.		5	5	0
COOLING	0 10 03 MIM 292	U	5	J	J	U

9.1.8 820 LX-FACTORY PROGRAMMED CYCLE-SOFTENER OPTION

PREWASH TIME	0 /
PREWASH 1 TEMPERATURE	/
PREWASH 1 DETERGENT 0 TO 9999 ml 24	
OPTION: PREWASH 1 DETERGENT 2 0 TO 9999 ml 0 0 0 OPTION: PREWASH 1 NEUTRALIZATION 0 TO 99999 ml 12 12 12 48 PREWASH 1 IME 2 0 TO 29 MN 59S 0 0 0 1 FILLING 1 / 2 / 3 / 4 / 5* / / / 4 PREWASH 2 DETERGENT 2 0 TO 9999 ml / / / 0 OPTION: PREWASH 2 DETERGENT 2 0 TO 9999 ml / / / 0 OPTION: PREWASH 2 NEUTRALIZATION 0 TO 9999 ml / / / 0 OPTION: PREWASH 3 NEUTRALIZATION 0 TO 9999 ml / / / / PREWASH 3 DETERGENT 2 0 TO 9999 ml / / / / / PREWASH 3 DETERGENT 2 0 TO 9999 ml / <td< td=""><td>/</td></td<>	/
OPTION: PREWASH 1 NEUTRALIZATION 0 TO 9999 ml 12 12 12 48 PREWASH TIME 2 FILLING 0 TO 29 MN 59S 0 0 0 1 FILLING 1/2/3/4/5* / / / 4 PREWASH 2 TEMPERATURE 0 TO 995 °C / / / 0 OPTROMS PREWASH 2 DETERGENT 2 0 TO 9999 ml / / 0 0 OPTION: PREWASH 2 DETERGENT 2 0 TO 9999 ml / / / 0 OPTION: PREWASH 3 NEUTRALIZATION 0 TO 9999 ml / / / / 0 FILLING 1/2/3/4/5* /	/
PREWASH TIME 2 0 TO 29 MN 59S 0 0 1 FILLING 1/2/3/4/5* / / 4 PREWASH 2 TEMPERATURE 0 TO 95°C / / / 0 PREWASH 2 DETERGENT 0 TO 9999 ml / / / 0 OPTION: PREWASH 2 NEUTRALIZATION 0 TO 9999 ml / / / 0 OPTION: PREWASH 2 NEUTRALIZATION 0 TO 9999 ml / / / 0 OPTION: PREWASH 2 NEUTRALIZATION 0 TO 9999 ml /	/
FILLING	/
PREWASH 2 TEMPERATURE	0
PREWASH 2 DETERGENT	/
OPTION: PREWASH 2 DETERGENT 2 0 TO 9999 ml / / / 0 OPTION: PREWASH 2 NEUTRALIZATION 0 TO 9999 ml / / / 0 PREWASH TIME 3 0 TO 9990 ml / <td< td=""><td>/,</td></td<>	/,
OPTION: PREWASH 2 NEUTRALIZATION 0 TO 9999 ml / / / 0 PREWASH TIME 3 0 TO 29 MN 59S 0 0 0 0 FILLING 1/2/3/4/5* /<	,
PREWASH TIME 3 FILLING FILLI	/
FILLING PREWASH 3 TEMPERATURE 0 TO 95 °C 7	0
PREWASH 3 DETERGENT 0 TO 9999 ml / <th< td=""><td>/</td></th<>	/
OPTION: PREWASH 3 DETERGENT 2 0 TO 9999 ml /	/
OPTION: PREWASH 3 NEUTRALIZATION 0 TO 9999 ml / <td>/</td>	/
WASH TIME 0 TO 29 MN 59S 4 4 2 2 FILLING 1/2/3/4/5* 5 5 5 5 WASH TEMPERATURE 0 TO 95°C 50 85 70 90 WASH DETERGENT 0 TO 9999 ml 96 96 96 120 OPTION: WASH DETERGENT 2 0 TO 9999 ml 0 0 0 0 OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 48 48 48 60 RINSE TIME A 0 TO 29 MN 59S 1 1 1 1 1 FILLING 1/2/3/4/5* 1	/
FILLING	/
WASH TEMPERATURE 0 TO 95 °C 50 85 70 90 WASH DETERGENT 0 TO 9999 ml 96 96 96 120 OPTION: WASH DETERGENT 2 0 TO 9999 ml 0 0 0 0 OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 48 48 48 60 RINSE TIME A 0 TO 29 MN 59S 1 <td>4 5</td>	4 5
WASH DETERGENT 0 TO 9999 ml 96 96 120 OPTION: WASH DETERGENT 2 0 TO 9999 ml 0 0 0 0 OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 48 48 48 60 RINSE TIME A 0 TO 29 MN 59S 1	50
OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 48 48 48 60 RINSE TIME A 0 TO 29 MN 59S 1 1 1 1 1 FILLING 1/2/3/4/5* 1 1 1 1 1 1 RINSE A TEMPERATURE 0 TO 95 °C / / / 2 2 2 ACID RINSE TIME 0 TO 29 MN 59S 2 1 1 1	96
RINSE TIME A 0 TO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
FILLING 1/2/3/4/5* 1 2	48
RINSE A TEMPERATURE 0 TO 95 °C	1
RINSE A 0TO 9	1
ACID RINSE TIME 0 TO 29 MN 59S 2 2 2 2 2 2 FILLING 1/2/3/4/5* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/,
FILLING 1/2/3/4/5* 1 1 1 1 ACID RINSE TEMPERATURE 0 TO 95 °C 0 0 0 0 NEUTRALIZING ACID 0 TO 9999 ml 96 96 96 96 OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml 192 192 192 192 RINSE TIME B 0 TO 29 MN 59S 1	/
ACID RINSE TEMPERATURE 0 TO 95 °C 0 0 0 0 NEUTRALIZING ACID 0 TO 9999 ml 96 96 96 96 OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml 192 192 192 192 RINSE TIME B 0 TO 29 MN 59S 1 1 1 1 1 1 FILLING 1/2/3/4/5* 1 </td <td>2 1</td>	2 1
NEUTRALIZING ACID 0 TO 9999 ml 96 96 96 96 OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml 192 192 192 RINSE TIME B 0 TO 29 MN 59S 1 1 1 1 FILLING 1/2/3/4/5* 1 1 1 1 RINSE B TEMPERATURE 0 TO 95 °C / / / / RINSE. TIME 1 0 TO 29 MN 59S 1 0 1 1 FILLING 1/2/3/4/5* 2 / 2 2 RINSE 1 TEMPERATURE 0 TO 95 °C / / / / /	0
OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml 192 192 192 RINSE TIME B 0 TO 29 MN 59S 1 1 1 1 FILLING 1/2/3/4/5* 1 1 1 1 1 RINSE B TEMPERATURE 0 TO 95 °C /	96
FILLING 1/2/3/4/5* 1 1 1 1 RINSE B TEMPERATURE 0 TO 95 °C / <td< td=""><td>192</td></td<>	192
RINSE B TEMPERATURE 0 TO 95 °C / <td< td=""><td>1</td></td<>	1
RINSE B 0 TO 9 / 2 / / RINSE. TIME 1 0 TO 29 MN 59S 1 0 1 1 FILLING 1/2/3/4/5* 2 / 2 2 RINSE 1 TEMPERATURE 0 TO 95 °C / / / /	1
RINSE.TIME 1 0 TO 29 MN 59S 1 0 1 1 FILLING 1/2/3/4/5* 2 / 2 2 RINSE 1 TEMPERATURE 0 TO 95 °C / / / /	/
FILLING 1/2/3/4/5* 2 / 2 2 RINSE 1 TEMPERATURE 0 TO 95 °C / / / /	/
RINSE 1 TEMPERATURE 0 TO 95 °C / / / /	0
	/
	0
FILLING 1/2/3/4/5* / / 2 /	/
RINSE 2 TIME TEMPERATURE 0 TO 95 °C / / / /	/
RINSE TIME 3 0 TO 29 MN 59S 0 0 0	0
FILLING 1/2/3/4/5* / / /	/
RINSE 3 TEMPERATURE 0 TO 95 °C / / / /	/
RINSE TIME 4 0 TO 29 MN 59S 0 0 0 0	0
FILLING 1/2/3/4/5* / / / / / / / / / / / / / / / / / /	/
RINSE 4 TEMPERATURE 0 TO 95 °C / / / FINAL RINSE TIME 0 TO 29 MN 59S 1 1 1 1	1
FINAL RINSE TIME 0 TO 29 MN 59S 1 1 1 1 1 FILLING 1/2/3/4/5* 2 2 2 2	2
FINAL RINSE TEMPERATURE 0 TO 95 °C 50 80 80 80	50
DRYING TIME 0 TO 89 MN 59S 10 25 25 25	10
DRYING Adjust. / Maxi Adjust. Maxi Maxi Maxi	Adjust.
COOLING 0 TO 89 MN 59S 0 5 5 5	0

9.1.9 910 LX -FACTORY PROGRAMMED CYCLE-STANDARD

	SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH 1 TEMPERATURE	PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
PREWASH 1DETERGENT OTO 9999 ml 26	FILLING	1/2/3/4/5*	1	1	1	3	/
OPTION: PREWASH 1 DETERGENT 2	PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
OPTION: PREWASH INEUTRALIZATION TO 9999 ml 13 13 13 13 52 5	PREWASH 1 DETERGENT	0 TO 9999 ml	26	26	26	104	/
PREWASH TIME 2	OPTION: PREWASH 1 DETERGENT 2		0	0	0	0	/
PREWASH TIME 2	OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	13	13	13	52	/
FILLING				n	0		0
PREWASH 2 TEMPERATURE			,	,	,	-	,
PREWASH 2 DETERGENT			,	,	,	-	,
OPTION: PREWASH 2 DETERGENT 2			',	',	',		,
OPTION: PREWASH 2 NEUTRALIZATION			/,	/,	/,	0	/,
PREWASH TIME 3			/,	/,	/,	-	/
FILLING			/	/	/	-	/
PREWASH 3 TEMPERATURE PREWASH 3 DETERGENT 1 0 TO 9999 ml			0	0	0	0	0
PREWASH 3 DETERGENT			/	/	/	/	/
OPTION : PREWASH 3 DETERGENT 2	PREWASH 3 TEMPERATURE		/	/	/	/	/
OPTION: PREWASH 3 NEUTRALIZATION 0 TO 9999 ml / <td>PREWASH 3 DETERGENT</td> <td>0 TO 9999 ml</td> <td>/</td> <td>/</td> <td>/</td> <td>/</td> <td>/</td>	PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
WASH TIME	OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/	/	/	/	/
FILLING WASH TEMPERATURE OTO 95°C 500 WASH DETERGENT OTO 9999 ml 104 104 104 104 104 104 130 104 OPTION: WASH DETERGENT 2 OTO 9999 ml 00 00 00 OPTION: WASH DETERGENT 2 OTO 9999 ml 52 52 52 65 52 RINSE TIMBE A OTO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	/	/	/	/	/
FILLING WASH TEMPERATURE OTO 95°C 500 WASH DETERGENT OTO 9999 ml 104 104 104 104 104 104 130 104 OPTION: WASH DETERGENT 2 OTO 9999 ml 00 00 00 OPTION: WASH DETERGENT 2 OTO 9999 ml 52 52 52 65 52 RINSE TIMBE A OTO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
WASH TEMPERATURE 0 TO 95 °C 50 85 70 90 50 WASH DETERGENT 0 TO 9999 ml 104 104 104 130 104 OPTION: WASH DETERGENT 2 0 TO 9999 ml 0		1/2/3/4/5*	3	3	3	3	3
WASH DETERGENT 0 TO 9999 ml 104 104 104 130 104 OPTION: WASH DETERGENT 2 0 TO 9999 ml 0 TO 9999 ml 0 TO 90 0 TO 0 0 TO 0							
OPTION: WASH DETERGENT 2 OTO 9999 ml O							
OPTION: WASH NEUTRALIZATION 0 TO 9999 ml 52 52 52 65 52 RINSE TIME A 0 TO 29 MN 59S 1							
RINSE TIME A			-	-	-	-	_
FILLING RINSE A TEMPERATURE OTO 95 'C / / / / / / / / / / / / / / / / / /				JZ 1	JZ 1	1	JZ 1
RINSE A TEMPERATURE 0TO 95 °C / / / / 2 2 2 / ACID RINSE TIME 0TO 29 MN 59S 2 2 2 2 2 2 2 FILLING 1/2/3/4/5* 1 1 1 1 1 1 1 1 ACID RINSE TEMPERATURE 0TO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1	1	1	1
RINSE A			1	1	1	1	1
ACID RINSE TIME			/	/	/	/	/
FILLING 1/2/3/4/5* 1 1 1 1 1 1 1 1 ACID RINSE TEMPERATURE 0 TO 95°C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			/	/	_		/
ACID RINSE TEMPERATURE 0 TO 95°C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
NEUTRALIZING ACID				-			-
OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml 208 208 208 208 RINSE TIME B 0 TO 29 MN 59S 1	ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
RINSE TIME B 0 TO 29 MN 59S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NEUTRALIZING ACID	0 TO 9999 ml	104	104	104	104	104
FILLING RINSE B TEMPERATURE OTO 95 °C // RINSE B OTO 9 / RINSE.TIME 1 OTO 29 MN 59S 1 OTO 1 FILLING 1/2/3/4/5* 2 // RINSE 1 TEMPERATURE OTO 95 °C // RINSE TIME 2 OTO 29 MN 59S O O O O O RINSE 2 TIME 1 TEMPERATURE OTO 95 °C // RINSE 2 TIME 1 TEMPERATURE OTO 95 °C // RINSE 3 TEMPERATURE OTO 95 °C // RINSE 4 TEMPERATURE OTO 95 °C // RINSE 5 TEMPERATURE OTO 95 °C // RINSE 4 TEMPERATURE OTO 95 °C // RINSE 4 TEMPERATURE OTO 95 °C // RINSE 4 TEMPERATURE OTO 95 °C // RINSE 5 TIME OTO 29 MN 59S O O O O O O O O O O O O O O O O O O O	OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	208	208	208	208	208
RINSE B TEMPERATURE 0TO 95 °C / / / / / / / / / / / / / / / / / /	RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
RINSE B TEMPERATURE 0TO 95 °C / / / / / / / / / / / / / / / / / /	FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE B 0 TO 9			,	/	,	/	/
RINSE.TIME 1 0 TO 29 MN 59S 1 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 1 1 1 1 0 1			,	2	,	,	,
FILLING 1/2/3/4/5* 2 / 2 2 2 /			1	0	1	1	0
RINSE 1 TEMPERATURE 0 TO 95 °C			2	,	2	2	,
RINSE TIME 2 0 TO 29 MN 59S 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0			2	/,	2	2	,
FILLING 1/2/3/4/5* / / 2 / / RINSE 2 TIME TEMPERATURE 0 TO 95 °C /			/	/	/	/	/
RINSE 2 TIME TEMPERATURE 0 TO 95 °C /			0	_	1	0	0
RINSE TIME 3 0 TO 29 MN 59S 0 0 0 0 0 0 0 FILLING 1/2/3/4/5* / / / / / / / / / / / / / / / / / /			/	/	2	/	/
FILLING 1/2/3/4/5* /			/	/	/	/	/
RINSE 3 TEMPERATURE 0 TO 95 °C /	RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
RINSE TIME 4 0 TO 29 MN 59S 0 0 0 0 0 0 0 FILLING 1/2/3/4/5* / / / / / / / / / / / / / / / / / /		1/2/3/4/5*	/	/	/	/	/
FILLING 1/2/3/4/5* /	RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FILLING 1/2/3/4/5* /	RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
RINSE 4 TEMPERATURE 0 TO 95 °C /			1	1	/	/	/
FINAL RINSE TIME 0 TO 29 MN 59S 1 2 2 2			,	,	,	,	,
FILLING 1/2/3/4/5* 2			1	1	1	1	1
FINAL RINSE TEMPERATURE 0 TO 95 °C 50 80 80 80 50 DRYING TIME 0 TO 89 MN 59S 10 25 25 25 10 DRYING Adjust. / Maxi Adjust. Maxi Maxi Maxi Maxi ADJUST.			1	1	1	1	1
DRYING TIME 0 TO 89 MN 59S 10 25 25 10 DRYING Adjust. / Maxi Adjust. Maxi Maxi Maxi ADJUST.							
DRYING Adjust. / Maxi Adjust. Maxi Maxi ADJUST.							-
COOLING OTO SO MNIESS OF E E E	DRYING	Adjust. / Maxi	Adjust.	Maxi	Maxi	Maxi	ADJUST.
	COOLING	0 TO 89 MN 59S	0	5	5	5	0

9.1.10 910 LX -FACTORY PROGRAMMED CYCLE-SOFTENER OPTION

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	4	4	4	5	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	26	26	26	104	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	13	13	13	52	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING PREWASH 2 TEMPERATURE	1/2/3/4/5*	/,	/,	/,	4	/
PREWASH 2 DETERGENT	0 TO 95 °C 0 TO 9999 ml	/,	/,	/,	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	,	,	',	0	,
OPTION: PREWASH 2 DETERGENT 2 OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	,	,	',	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	/	0	0	0
FILLING	1/2/3/4/5*	,	,	,	,	0
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	/	,	,	/
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	,	,	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	/
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	5	5	5	5	5
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	104	104	104	130	104
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	52	52	52	65	52
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	104	104	104	104	104
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	208	208	208	208	208
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE B TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSEB	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	Adjust. / Maxi	Adjust.	Maxi	Maxi	Maxi	ADJUST.
COOLING	0 TO 89 MN 59S	0	5	5	5	0

9.1.11 1300 LX - FACTORY PROGRAMMED CYCLE-STANDARD

SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1*	3	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	30	30	30	120	,
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	15	15	15	60	,
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
		Ú	Ů,	Ú	-	,
FILLING	1/2/3/4/5*	/,	/,	/,	1	/,
PREWASH 2 TEMPERATURE	0 TO 95 °C	/,	/,	/,	0	/,
PREWASH 2 DETERGENT	0 TO 9999 ml	/,	/,	/,	0	/,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	3	3	3	3	3
WASH TEMPERATURE	0 TO 95 °C	50	3 85	70	90	50
		120		70 120		
WASH DETERGENT	0 TO 9999 ml		120		150	120
OPTION: WASH DETERGENT2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	60	60	60	75	60
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	120	120	120	120	120
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	240	240	240	240	240
				240	240	240
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	Ţ	l,	Ţ	I,	I,
RINSE B TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*		/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	,	/	7	,	,
RINSE TIME 3		/	7	/	/	/
	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/,	/,	/,	/,	/,
RINSE 3 TEMPERATURE	0 TO 95 °C		/		/	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING						
LUB TIIMES	Adimot (Blassi	A direct	Marri	N/1 =>++i		
COOLING	Adjust. / Maxi 0 TO 89 MN 59S	Adjust. 0	Maxi 5	Maxi 5	Maxi 5	Adjust.

9.1.12 1300 LX-FACTORY PROGRAMMED CYCLE-SOFTENER OPTION

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	4	4	4	5	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	30	30	30	120	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	15	15	15	60	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	4	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	/	/	/	0	/
PREWASH 2 DETERGENT	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	/	/	/	/	/
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	5	5	5	5	5
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	120	120	120	150	120
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	60	60	60	75	60
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	120	120	120	120	120
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	240	240	240	240	240
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE B TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	Adjust. / Maxi	Adjust.	Maxi	Maxi	Maxi	Adjust.
COOLING	0 TO 89 MN 59S	0	5	5	5	0
00001110	0.000 11111 000			9	9	~

9.1.13 1400 LX-FACTORY PROGRAMMED CYCLE-STANDARD

* Please refer page / I for the water's name SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	3	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	40	40	40	160	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	20	20	20	80	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING PREWASH 2 TEMPERATURE	1/2/3/4/5* 0TO95°C	/,	,	/,	1 0	,
PREWASH 2 DETERGENT	0 TO 9999 ml	,	,	,	0	,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	,	,	,	0	,
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	,	,	,	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/,	/	/	/,	/,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	/	/	/	/	/
WASH TIME FILLING	0 TO 29 MN 59S 1/2/3/4/5*	4 3	4 3	2 3	2	4 3
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	160	160	160	200	160
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	80	80	80	100	80
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2 1	2	2	2	2
FILLING ACID RINSE TEMPERATURE	1/2/3/4/5* 0TO 95°C	0	1 0	1 0	1 0	1 0
NEUTRALIZING ACID	0 TO 9999 ml	160	160	160	160	160
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	320	320	320	320	320
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	i	1	i	1	1
RINSE B TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING DINISE 2 TIME TEMPEDATURE	1/2/3/4/5* 0TO 95°C	/,	/	2	/	/,
RINSE 2 TIME TEMPERATURE RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	',	/	/	/	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	Adjust. / Maxi	Adjust.	Maxi	Maxi	Maxi	Adjust.
COOLING	0 TO 89 MN 59S	0	5	5	5	0

9.1.14 1400 LX-FACTORY PROGRAMMED CYCLE-SOFTENER OPTION

SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	4	4	4	5	/
PREWASH 1 TEMPERATURE	0 TO 95°C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	40	40	40	160	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	20	20	20	80	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	4	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	/	/	/	0	/
PREWASH 2 DETERGENT	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	/	/	/	/	/
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	5	5	5	5	5
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	160	160	160	200	160
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	80	80	80	100	80
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95°C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	160	160	160	160	160
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	320	320	320	320	320
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE B TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95°C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	Adjust. / Maxi	Adjust.	Maxi	Maxi	Maxi	Adjust.
COOLING	0 TO 89 MN 59S	0	5	5	5	0
00011110	0 10 00 10114 000	0	9	5	5	,

9.1.15 1400 LXP-FACTORY PROGRAMMED CYCLE-STANDARD

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	3	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	40	40	40	160	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	20	20	20	80	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	1	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	/	/	/	0	/
PREWASH 2 DETERGENT	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	,	,	/	/	,
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	/	/	,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	3	3	3	3	3
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	160	160	160	200	160
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	80	80	80	100	80
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	0 10 =0 11111 000	1	1	1	1	1
RINSE A TEMPERATURE	1/2/3/4/5* 0TO95°C	1	1	,	,	,
RINSE A TEMPERATURE	0 TO 95 C	/,	/,	2	2	/,
ACID RINSE TIME	0 TO 29 MN 59S	2	/	2	2	7
		1	2 1	1	1	2 1
FILLING ACID RINSE TEMPERATURE	1/2/3/4/5* 0TO95°C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	160	160	160	160	-
		320	320	320	320	160 320
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml			320	320	320
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1,	1
RINSE B TEMPERATURE	0 TO 95 °C	/,	/	/,	/,	/
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSETIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	0 TO 110°C	60	60	60	90	60
COOLING	0 TO 89 MN 59S	5	5	5	5	5

9.1.16 1400 LXP-FACTORY PROGRAMMED CYCLE-SOFTENER OPTION

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	4	4	4	5	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	40	40	40	160	/,
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	20	20	20	80	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING PREWASH 2 TEMPERATURE	1/2/3/4/5*	/,	/,	/,	4	/,
PREWASH 2 DETERGENT	0 TO 95 °C 0 TO 9999 ml	/,	,	/	0	,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/,	/	/,	0	,
OPTION: PREWASH 2 DETERGENT 2 OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	',	,	,	0	,
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	,	,	,	',	,
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	5	5	5	5	5
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	160	160	160	200	160
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	80	80	80	100	80
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	160	160	160	160	160
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	320	320	320	320	320
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1,	1	1	1,
RINSE B TEMPERATURE	0 TO 95 °C	/,	/	/,	/,	/,
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING RINSE 1 TEMPERATURE	1/2/3/4/5* 0TO 95°C	2	/,	2	2	/,
		/	/	/	/	0
RINSE TIME 2 FILLING	0 TO 29 MN 59S 1/2/3/4/5*	0	0	1 2	0 /	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	7	',	,
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	0	0	0	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	,	/	',	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	,	/	,	,	,
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	0 TO 110°C	60	60	60	90	60
COOLING	0 TO 89 MN 59S	5	5	5	5	5
COOLING	0 10 03 IVIN 333	J	J	J	J	J

9.1.17 1600 LXP - FACTORY PROGRAMMED CYCLE-STANDARD

SEQUENCES SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	3	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	60	60	60	240	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	30	30	30	120	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	1	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	/	/	/	0	/
PREWASH 2 DETERGENT	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	/	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	/	/	/	/	/
WASHTIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	3	3	3	3	3
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	240	240	240	300	240
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	120	120	120	150	120
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	240	240	240	240	240
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	480	480	480	480	480
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	i
RINSE B TEMPERATURE	0 TO 95 °C	,	,	,	/	,
RINSE B	0 TO 9	,	2	,	/	,
RINSE, TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	,	/	/	,
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	1	/	/	,
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	,	,	/
RINSE 3 TEMPERATURE	0 TO 95 °C	′,	/	',	',	,
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	1	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	,	/	,	,	,
FINAL RINSE TIME		/	/	/	/	/
FINAL KINSE HIVE		1	-1	4	-1	- 4
FILLING	0 TO 29 MN 59S	1	1	1	1	1
FILLING	0 TO 29 MN 59S 1/2/3/4/5*	1 2	1 2	1 2	1 2	2
FINAL RINSE TEMPERATURE	0 TO 29 MN 59S 1/2/3/4/5* 0 TO 95 °C	50	80	80	80	2 50
FINAL RINSE TEMPERATURE DRYING TIME	0 TO 29 MN 59S 1/2/3/4/5* 0 TO 95 °C 0 TO 89 MN 59S	50 10	80 25	80 25	80 25	2 50 10
FINAL RINSE TEMPERATURE	0 TO 29 MN 59S 1/2/3/4/5* 0 TO 95 °C	50	80	80	80	2 50

9.1.18 1600 LXP - FACTORY PROGRAMMED CYCLE - SOFTENER OPTION

SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	4	4	4	5	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	,
PREWASH 1 DETERGENT	0 TO 9999 ml	60	60	60	240	,
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	30	30	30	120	,
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	4	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	,	,	,	0	,
PREWASH 2 DETERGENT	0 TO 9999 ml	,	,	,	0	,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	,	,	,	0	,
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	,	,	,	,	,
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	5	5	5	5	5
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	240	240	240	300	240
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	120	120	120	150	120
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	i	1	i	i	1
RINSEA TEMPERATURE	0 TO 95 °C	,	,	,	,	,
RINSE A	0 TO 9	,	,	2	2	,
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	240	240	240	240	240
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	480	480	480	480	480
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	i
RINSE B TEMPERATURE	0 TO 95 °C	,	,	,	,	,
RINSE B	0 TO 9	,	2	',	,	,
RINSE, TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	,	/	/	,
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	1	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	,	,
RINSE 3 TEMPERATURE	0 TO 95 °C	,	,	,	,	,
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	1	1
RINSE 4 TEMPERATURE	0 TO 95 °C	,	/	,	,	,
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING TIME DRYING	0 TO 110°C	60	60	60	90	60
DIVINIG	0101100	00	00	00		00
COOLING	0 TO 89 MN 59S	5	5	5	5	5

9.1.19 1800 LXA - FACTORY PROGRAMMED CYCLE-STANDARD

SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	1	1	1	3	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	,
PREWASH 1 DETERGENT	0 TO 9999 ml	100	100	100	400	,
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	50	50	50	200	,
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING	1/2/3/4/5*	/	/	/	1	/
PREWASH 2 TEMPERATURE	0 TO 95 °C	,	,	',	0	,
PREWASH 2 DETERGENT	0 TO 9999 ml	,	,	,	0	,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	,	/	/	0	/
OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	/	/	/	0	/
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	/	,	,	,	/
PREWASH 3 DETERGENT	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	/	/	/	/	/
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	/	/	/	/	/
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	3	3	3	3	3
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	400	400	400	500	400
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	200	200	200	250	200
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	400	400	400	400	400
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	800	800	800	800	800
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE B TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING	1/2/3/4/5*	2	/	2	2	/
RINSE 1 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 2	0 TO 29 MN 59S	0	0	1	0	0
FILLING	1/2/3/4/5*	/	/	2	/	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 3 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	/	/	/
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	0 TO 110°C	60	60	60	90	60
COOLING	0 TO 89 MN 59S	5	5	5	5	5
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9.1.20 1800 LXA -FACTORY PROGRAMMED CYCLE-SOFTENER OPTION

SEQUENCES	POSSIBILITIES	PROG. 01	PROG. 02	PROG. 03	PROG. 04	PROG. 05
PREWASH TIME 1	0 TO 29 MN 59S	1	2	2	2	0
FILLING	1/2/3/4/5*	4	4	4	5	/
PREWASH 1 TEMPERATURE	0 TO 95 °C	0	0	0	90	/
PREWASH 1 DETERGENT	0 TO 9999 ml	100	100	100	400	/
OPTION: PREWASH 1 DETERGENT 2	0 TO 9999 ml	0	0	0	0	/,
OPTION: PREWASH 1 NEUTRALIZATION	0 TO 9999 ml	50	50	50	200	/
PREWASH TIME 2	0 TO 29 MN 59S	0	0	0	1	0
FILLING PREWASH 2 TEMPERATURE	1/2/3/4/5* 0 TO 95 °C	/,	/,	/,	4 0	/,
PREWASH 2 TEMPERATURE PREWASH 2 DETERGENT	0 TO 9999 ml	/,	/	/	0	/,
OPTION: PREWASH 2 DETERGENT 2	0 TO 9999 ml	,	/	/,	0	,
OPTION: PREWASH 2 DETERGENT 2 OPTION: PREWASH 2 NEUTRALIZATION	0 TO 9999 ml	',	,	,	0	,
PREWASH TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
PREWASH 3 TEMPERATURE	0 TO 95 °C	',	,	,	',	,
PREWASH 3 DETERGENT	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 DETERGENT 2	0 TO 9999 ml	,	,	,	,	,
OPTION: PREWASH 3 NEUTRALIZATION	0 TO 9999 ml	,	,	,	,	,
WASH TIME	0 TO 29 MN 59S	4	4	2	2	4
FILLING	1/2/3/4/5*	5	5	5	5	5
WASH TEMPERATURE	0 TO 95 °C	50	85	70	90	50
WASH DETERGENT	0 TO 9999 ml	400	400	400	500	400
OPTION: WASH DETERGENT 2	0 TO 9999 ml	0	0	0	0	0
OPTION: WASH NEUTRALIZATION	0 TO 9999 ml	200	200	200	250	200
RINSE TIME A	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1	1	1	1
RINSE A TEMPERATURE	0 TO 95 °C	/	/	/	/	/
RINSE A	0 TO 9	/	/	2	2	/
ACID RINSE TIME	0 TO 29 MN 59S	2	2	2	2	2
FILLING	1/2/3/4/5*	1	1	1	1	1
ACID RINSE TEMPERATURE	0 TO 95 °C	0	0	0	0	0
NEUTRALIZING ACID	0 TO 9999 ml	400	400	400	400	400
OPTION: ACID RINSE NEUTRALIZATION	0 TO 9999 ml	800	800	800	800	800
RINSE TIME B	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	1	1,	1	1,	1,
RINSE B TEMPERATURE	0 TO 95 °C	/,	/	/,	/,	/,
RINSE B	0 TO 9	/	2	/	/	/
RINSE. TIME 1	0 TO 29 MN 59S	1	0	1	1	0
FILLING RINSE 1 TEMPERATURE	1/2/3/4/5* 0TO 95°C	2	/	2	2	,
		/	/	/	/	0
RINSE TIME 2 FILLING	0 TO 29 MN 59S 1/2/3/4/5*	0	0	1 2	0	/
RINSE 2 TIME TEMPERATURE	0 TO 95 °C	/	/	7	,	/
RINSE TIME 3	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	0	0	0	0	/
RINSE 3 TEMPERATURE	0 TO 95 °C	,	,	,	',	/
RINSE TIME 4	0 TO 29 MN 59S	0	0	0	0	0
FILLING	1/2/3/4/5*	/	/	/	/	/
RINSE 4 TEMPERATURE	0 TO 95 °C	/	/	,	,	,
FINAL RINSE TIME	0 TO 29 MN 59S	1	1	1	1	1
FILLING	1/2/3/4/5*	2	2	2	2	2
FINAL RINSE TEMPERATURE	0 TO 95 °C	50	80	80	80	50
DRYING TIME	0 TO 89 MN 59S	10	25	25	25	10
DRYING	0 TO 110°C	60	60	60	90	60
COOLING	0 TO 89 MN 59S	5	5	5	5	5
COOLING	O I O OJ IVIIV 335	J	J	5	Ü	0

9.2 USER CYCLE PROGRAMMING TABLE



IT IS NOT RECOMMENDED TO SET WASH PROGRAMS AT MAXIMUM VALUES FOR TIME AND TEMPERATURE AS THIS WILL RESULT IN REDUCED EQUIPMENT LIFE AND INCREASED MAINTENANCE FREQUENCY OF EQUIPMENT.

DO NOT SET BACK TO BACK HIGH TEMPERATURE 85°C TO 95°C HEATING PHASES. DOING SO CAN INCREASE THE TEMPERATURE INSIDE THE MACHINE AND MAY ACTIVATE SOME OVERHEATING DEVICES. TO PREVENT THIS FROM OCCURRING, WE RECOMMEND TO PROGRAM A MINIMUM 30 SECOND COLD PHASE BETWEEN TWO HEATING PHASES.

IF YOU WISH TO CREATE A CUSTOM WASH PROGRAM, PLEASE REFER TO THE FACTORY DEFAULT PROGRAMS FOR EXAMPLES OF TYPICAL TIMES AND TEMPERATURES.

YOU MAY ALSO CONTACT YOUR GETINGE REPRESENTATIVE FOR ADVICE ON CREATING WASH PROGRAMS.

IT IS NOT RECOMMENDED TO INSTALL THE MACHINE IN A PLACE EXCEEDING 30°C. IT WILL HELP TO INCREASE DURING THE CYCLE THE TEMPERATURE INSIDE THE MACHINE. IT WILL RESULT IN REDUCED EQUIPMENT LIFE AND INCREASED MAINTENANCE FREQUENCY OF EQUIPMENT

* Please refer page 71 for the water's name PROG. **SEQUENCES POSSIBILITIES** PROG. PROG. PROG. PREWASH TIME 1 0 TO 29 MN 59S FILLING 1/2/3/4/5* PREWASH 1 TEMPERATURE 0 TO 95 °C 0 TO 9999 ml PREWASH 1 DETERGENT OPTION: PREWASH 1 DETERGENT 2 0 TO 9999 ml OPTION: PREWASH 1 NEUTRALIZATION 0 TO 9999 ml PREWASH TIME 2 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* PREWASH 2 TEMPERATURE 0 TO 95 °C PREWASH 2 DETERGENT 0 TO 9999 ml OPTION: PREWASH 2 DETERGENT 2 0 TO 9999 ml 0 TO 9999 ml OPTION: PREWASH 2 NEUTRALIZATION PREWASH TIME 3 0 TO 29 MN 59S **FILLING** 1/2/3/4/5 PREWASH 3 TEMPERATURE 0 TO 95 °C PREWASH 3 DETERGENT 0 TO 9999 ml OPTION: PREWASH 3 DETERGENT 2 0 TO 9999 ml **OPTION: PREWASH 3 NEUTRALIZATION** 0 TO 9999 ml **WASH TIME** 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* WASH TEMPERATURE 0 TO 95 °C WASH DETERGENT 0 TO 9999 ml OPTION: WASH DETERGENT 2 0 TO 9999 ml OPTION: WASH NEUTRALIZATION 0 TO 9999 ml RINSE TIME A 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* RINSE A TEMPERATURE 0 TO 95 °C 0 TO 9 RINSF A **ACID RINSE TIME** 0 TO 29 MN 59S **FILLING** 1/2/3/4/5 ACID RINSE TEMPERATURE 0 TO 95 °C **NEUTRALIZING ACID** 0 TO 9999 ml OPTION: ACID RINSE NEUTRALIZATION 0 TO 9999 ml RINSE TIME B 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* RINSE B TEMPERATURE 0 TO 95 °C RINSE B 0 TO 9 RINSE. TIME 1 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* RINSE 1 TEMPERATURE 0 TO 95 °C RINSE TIME 2 0 TO 29 MN 59S **FILLING** 1/2/3/4/5 RINSE 2 TIME TEMPERATURE 0 TO 95 °C 0 TO 29 MN 59S RINSE TIME 3 **FILLING** 1/2/3/4/5* RINSE 3 TEMPERATURE 0 TO 95 °C RINSETIME 4 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* RINSE 4 TEMPERATURE 0 TO 95 °C FINAL RINSE TIME 0 TO 29 MN 59S **FILLING** 1/2/3/4/5* FINAL RINSE TEMPERATURE 0 TO 95 °C **DRYING TIME** 0 TO 89 MN 59S DRYING 0 TO 110°C COOLING 0 TO 89 MN 59S





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