



User's manual E 600

Table of Contents

SAFETY & WARRANTY.....	2
Inspection upon receipt	2
Safety.....	2
LEGAL PROVISIONS / REQUIREMENTS	2
INSTALLATION	3
Preliminary checks.....	3
Connection with water supply	3
Connection with the drainage.....	3
Connection with the power supply	4
OPERATION.....	4
Preparation.....	4
Control Panel.....	5
Starting the machine	5
Thermo-Protector	5
Washing Cycle Selection.....	6
Start Washing	6
Draining	6
Filling of Detergent and Rinse Aid	6
Cold Water Rinse.....	7
Shutting down the machine	7
ECO Function (function disabled).....	7
Soft Start Function (function enabled).....	7
Maintenance and Repair	7
Users Menu	8
Alarm Indications	9
TROUBLESHOOTING	11

SAFETY & WARRANTY

Inspection upon receipt

Upon arrival of the package check if there is any visible damage or indications of rough handling that may be caused during transportation. In case that you spot any damages or you have doubts that the package was abused during transportation, please abort the installation and contact your supplier as soon as possible. Every washing machine before departure from our premises is tested in order to ensure its proper function and it is accompanied by the corresponding test report.

Safety

This machine should be used only for the purpose that is intended, according to the operation instructions described herein. It is not allowed to modify it in any way. In case that this machine is either used not in compliance with the operation instructions or after technical modifications, the manufacturer is not responsible for its good operation or possible accidents.



CAUTION: The washing water is not potable!

Prior to the installation of the machine, please advise the label with its technical specifications (it is mounted on the side of the machine) and check carefully if it is compatible with the power supply network of your area. In any case that there is deviation, please abort the installation procedure.

If the washing machine's door is left accidentally open, a safety switch interrupts the washing procedure. In case of overload or overheating of the pump, there is also a safety switch that interrupts the power supply to the machine. That switch could be activated by the user as soon as the problem is remedied.

The installation of this ware washing machine, as well as its maintenance, should be performed by licensed technician according to the local regulations of your area and the herein described instructions.

LEGAL PROVISIONS / REQUIREMENTS

Compliance with E.U. Regulations

This equipment complies with the requirements of Directives 2006/95/EU "on Low Voltage" (LVD) and 2004/108/EU "on Electromagnetic Compatibility" (EMC) and carries the



Mark.

You can obtain a copy of the declaration of conformity from your supplier. This product complies with the requirements of Directive 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of hazardous substances in electrical and electronic equipment and carries the following mark.



Waste disposal

According to the Directive 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (AHHE), the products and their parts covered by this directive should not be disposed of with regular garbage but be returned to the point of sale or be transferred to a recycling center for electrical and electronic appliances. For further information address to the local authorities

INSTALLATION

Preliminary checks

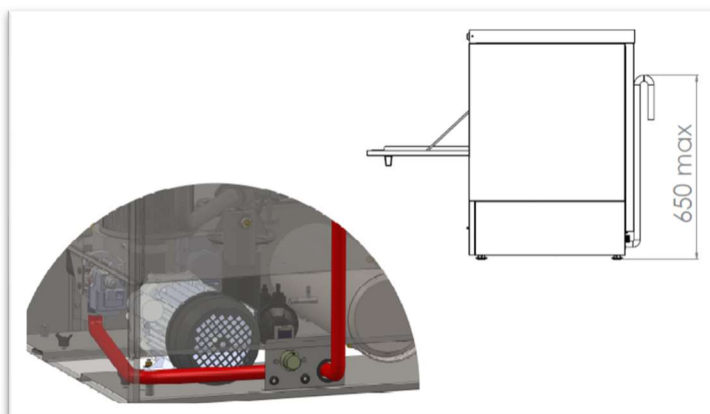
- The installation should be performed by licensed technician according to the instructions of this manual and the legal regulations of your area.
- Be sure that the machine was not damaged during handling.
- Check carefully that the technical details of this ware washing machine (written on the nameplate) are compatible with your network's power supply.
- Prior using the washing machine for first time, clean it thoroughly with a conventional detergent.

Connection with water supply

- Place the washing machine in the desirable place in sufficiently stable horizontal ground.
- Be sure that the power supply is not connected.
- The water inlet and water outlet hoses that are required for the installation are included in the package. Before connection you should rinse them.
- The water inlet hose should have a diameter of at least 16 mm and the connection with the pipe $\frac{3}{4}$ ".
- The minimum water supply pressure should be 2 bar and the maximum 5 bar.
- In the water supply hose there should be installed a non-returning valve according to DIN 1988

Connection with the drainage

- Connect the drainage of the washing machine with your network's drainage as shown in the next figure.





Special care should be given so that the highest point of the flexible drainage hose is placed lower than 650 mm. Otherwise, reverse flow of the water could occur.

Connection with the power supply

This machine works under specific power supply and voltage that are explicitly mentioned in the nameplate of the product. Prior installation please kindly check it.

The installation procedure should be performed by licensed technician.

OPERATION

This washing machine is intended only for cleaning dishes, plates, forks, knives etc. Be careful in order to wash items suitable for dishwashing. Solid food residuals should be removed from the items before washing them in the machine. For better results you could soak the items for some time, especially if there is elapsed enough time after usage. Do not use this machine for washing items that were in service / contact with acids, mineral oil, grease, gasoline or colors.

Preparation

Fill the baskets placing the glasses and cups with the opening facing down in the locations of the basket that have the correct molding.

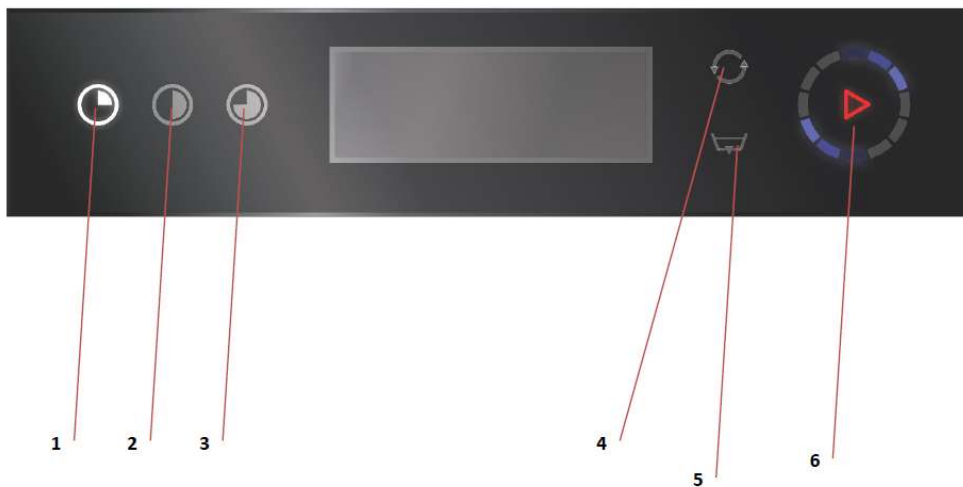
Plates should be stacked vertically in appropriate baskets without touching each other.

In any case avoid the overloading of the baskets.



Control Panel

BUTTON	DESCRIPTION	NOTES
SW1	Washing cycle selection 60 sec	
SW2	Washing cycle selection 120 sec	
SW3	Washing cycle selection 180 sec	
SW4	Water softener regeneration (disable)	
SW5	Draining cycle	
SW6	Power & washing cycle start	To start washing you must select the washing time first



Starting the machine

1. Press Button SW6 (power) for 1.5 sec.
2. Let the machine fill up with water.
3. After filling detergent and rinse aid priming.
4. Final the machine start warming up.



Important note: At the beginning SW6 remains red and does not allow you to make a washing cycle until the machine to gets fully warmed.

Thermo-Protector

In order to start the first washing cycle of the day, both temperatures in the tank and the boiler must reach operational values. In all the other cycles, due to **Thermo-Protector** system, **if the temperature in the boiler is not appropriate for rinsing, the washing cycle continues until the rinse water becomes sufficiently heated.** A message on the screen informs the user that washing cycle continues and LED L5 flashes red.

Washing Cycle Selection

After the proper heating of the machine, we choose the washing cycle time using Button SW1 or 2 or 3. By default the No 2 washing cycle is chosen.



Important note: The last selection is stored in the memory of the machine and is used in the next wash cycles. Should you wish to change it again, repeat the above process.

Start Washing

To start a washing cycle, press Button SW6. During washing cycle the blue ring shows the washing progress.



Important note :10 sec before final rinse – and before washing cycle is finished – the boiler starts working.



Important note: In case that the **door is open** accidentally before program is finished, the **washing stops** and the timer reset. Therefore, in order to finish the cycle you should start the procedure from the beginning.

Draining

This machine has draining pump, so that the draining cycle is performed automatically. If you want to perform draining on demand, press the Button SW5.

During draining, an internal check of the system is performed, ensuring that the heating resistances are switched off. In that sense, any possible overheating caused by heating resistances not immersed in water could be avoided. The draining procedure has by **default duration 60 sec**, but it could be changed by the user. *Check Section “User Menu”



Important note: 10 sec before finishing main wash the draining pump starts working and it stops 10 sec after rinse cycle.

As soon as draining stops, for the next 30 sec the system performs self-cleaning (door must be closed).

Kindly note that after every On-Demand draining execution, the machine shuts down.

Filling of Detergent and Rinse Aid

This machine is equipped with peristaltic dosing pumps for the rinse aid and the detergent. The filling inlets for each one are the two corresponding hoses which should be immersed in the appropriate tanks.

The priming procedure is performed in two stages. The initial filling (when you turn the machine on) and additional re-fillings after each washing cycle:

1st Stage: During automatic preparation (before the first wash) the machine receives from the tank soap for 45 sec and rinse aid for 35 sec. This could be adjusted from the user through the User Menu *Check Section “User Menu”.

2nd Stage: During every complete washing & rinsing cycle, the machine receives detergent for 12 sec and rinse aid for 14 sec. This could be adjusted from the user through the User Menu *Check Section “User Menu”

NOTE: In case that you need to adjust the Detergent or Rinse Aid from the User Menu, please bear in mind that for each second the corresponding pump captures the following liquid quantities:

Detergent pump: 0.83 ml/sec

Rinse Aid pump: 0.19 ml/sec

By multiplying these quantities with the time duration (seconds) that the pump works, you can calculate the volume of each liquid that it is used.



Warning: The machine receives rinse aid during washing cycle and detergent during rinsing cycle.

Cold Water Rinse

This machine has Cold rinse function , To enable or disable cold rinse press SW 1 + SW 3 for a few seconds

Shutting down the machine

In case that you want to shut down the machine, press the Button SW5. The machine is going to drain automatically the used water, perform a self-cleaning cycle and then shut down.

ECO Function (function disabled)

In case that the machine is in Standby operation for more than 15 minutes, the Boiler’s temperature lowers in order to avoid unnecessary power consumption. During these intervals, if the door of the washing machine opens, the ECO Function stops.

Soft Start Function (function enabled)

This machine is equipped with Soft Start System that enables the water pump to start with lower pressure and gradually increase it, so that the sensitive crystals are not damaged.

Maintenance and Repair















After 50.000 washing cycles, a Service reminding message will be displayed in the screen. Regular maintenance, performed by licensed technician using original spare parts is essential for proper function of the machine.



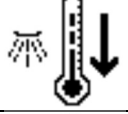
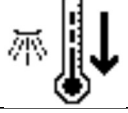
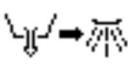



Users Menu

Key combination to enter 1st level of parameters is **SW 1 + SW 6 + DOOR CLOSE**

Keys combination to enter configuration menu (press for more than 2 seconds)	1 + 6 + door close → 1st level 2 + 6 + door open → 2nd level
Previous param	1
Next param	3
Increase param value	4
Decrease param value	5
Save new param value	6
Keys combination to exit configuration menu	1+6 or 6 for more than 2 seconds

Default parameters and range of adjustment is presented below Q

Description	Icon		Default	Min	Max
TEMPERATURE MODE			CELCIUS	FAHRENHEIT	CELCIUS
BOILER TEMPERATURE			82	0	95
TANK TEMPERATURE			60	0	95
TANK THERMOSTOP			OFF	OFF	ON
BOILER THERMOSTOP			ON	OFF	ON
DETERGENT TIME FILLING			26	0	90
DETERGENT TIME PROGRAM			13	0	90
RINSE AID TIME FILLING			60	0	90
RINSE AID TIME PROGRAM			35	0	90
SHORT CYCLE WASHING TIME			43	30	120

MIDDLE CYCLE WASHING TIME			103	40	240
LONG CYCLE WASHING TIME			163	50	360
COLD RINSE			ON	OFF	ON
COLD RINSE TIME			12	5	30
SELF CLEANING			18	OFF	60
SOFT START			OFF	OFF	ON
ECO FUNCTION	ECO		OFF	OFF	ON
DISPLAY CONTRAST					
DISPLAY BRIGHTNESS					

Alarm Indications

If the system records any malfunction, then a warning message will be displayed on the screen. If such a condition occurs, please advise the following table which describes the problem shortly. Should you need further assistance, don't hesitate to contact your local reseller.

Alarm nr.	Alarm name	Description
1	Load timeout	During the tank filling cycle, the level doesn't recognize good, following the tank level switch, after the time set on related configuration parameter
2	Drain timeout	During the tank drain cycle, the tank is still filled, following the tank level switch, after the time set on related configuration parameter
3	Boiler warm timeout	The boiler temperature doesn't increase about at least 2 degrees within 210 seconds
4	Tank warm timeout	The tank resistor is continuously active for more than 60 minutes
5	Boiler temperature	The boiler temperature is under 1°C or over 105° or the sensor is damaged
6	Tank temperature	The tank temperature is under 1°C or over 105° or the sensor is damaged
7	Cold rinse	The wash was locked, due a cold boiler, for more than 8 minutes and so do a rinse with a wrong temperature. This alarm will be raised after the cycle rinse.
8	Resin regeneration drain timeout	When softener enabled, during the resins' regeneration cycle, following the tank level switch, after the time set on related configuration parameter (the same related alarm nr. 2)

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
The dishwasher does not operate properly	Connection interruption	Check the connection
	You have not turned the switch of the appliance ON	Turn the switch ON
	Main switch / or fuse has not been activated / or it is faulty	Check the main switch / or fuse
	The switch of the appliance is faulty	Refer to the authorized local dealer who sold the appliance or directly to the manufacturer
	The water inlet valve is faulty	
	The door is not closed	Close the door
	You have not turned the water supply on	Turn the supply on
The appliance operates, but the switch LED does not light on	The LED is faulty	Change the LED
Boiler heating does not operate	Switch or main switch or fuse has not been activated	Check the switch of the appliance and the main switch or fuse
	The safety thermostat of the boiler is faulty	Refer to the authorized local dealer or the manufacturer
	The 93°C thermal fuse of the boiler is faulty	
	Pressure regulator is faulty	Refer to the authorized local dealer or the manufacturer
	"Boiler heating" relay is faulty	
Boiler fuse is burned out	Refer to the authorized local dealer or the manufacturer	
Boiler heating operates, but LED does not turn on	Faulty LED	Change LED
Dispenser heating does not operate	Switch N1 of the appliance or main switch or fuse has not been activated	Activate the corresponding switch or fuse
	Boiler heating is open	Wait
The 85 °C thermal fuse is faulty. The dispenser's fuse is burned out	The thermostat switch of 60°C heating is faulty	Refer to the authorized local dealer or the manufacturer
	"Compartment heating" relay is faulty	
Dispenser's heating operates, but LED does not turn on	Faulty LED	Change LED
Pump motor does not operate	Main switch or fuse is not activated. The door is not closed.	Activate the main switch or fuse Close the door
	Main relay is faulty	Refer to the authorized local dealer or the manufacturer
	Pump motor is faulty	
	Program selection switch is faulty	

Motor operates, but pump does not rotate	An object has jammed the pump fin	Refer to the authorized local dealer or the manufacturer
	Salts or detergent have been petrified following non-operation of the appliance	Rotate the screw on the backside of the motor, until it rotates freely
Items do not dry (dishes, glasses, etc.)	Compartment has no drying aid	Insert drying aid to the compartment
	Drying valve is faulty	Refer to the authorized local dealer or the manufacturer
	Program switch is faulty	
	Rinsing arms do not rotate	
	Basket does not rotate	