Instruction manual



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Utensil dishwasher double skin with drain pump heat recovery system 55x61 - 400 V S 157 REC ABT

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1. DECLARATION OF CONFORMITY

Decree of the Ministry of Health of the Czech Republic no. 38/2001 Coll. of 19 January 2001 Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation of the European Parliament and Council Regulation (EC) no. 1935/2004 of 27 October 2004

The products meet the requirements of §26 of Act No.258/2000 as amended. The products meet the requirements of RoHS Directive 2015/863/EU, 10/2011, 517/2014, 2015/1094, 2015/1095.

Attention, the manufacturer gives up any responsibility in case of direct and indirect damage that is relate to poor installation, incorrect intervention or adjustments, insufficient maintenance, incorrect by using and which are eventually caused by other causes that the points referred to in the conditions sales. This appliance is intended only for professional use and must be operated by qualified by persons. Parts that have been secured by the manufacturer or authorized worker after the setting rebuild.

2. TECHNICAL DATA

The label with technical data is located on the side or back panel of the device. Please read the wiring diagram and all the following information in the attached manual before installation.

Net Width [mm]	Net Depth [mm]	Net Height [mm]	Net Weight [kg]	Power electric [kW]
720	2156	2156	199.00	10.500

Loading	Basin volume [l]	Boiler capacity [l]	Boiler power [kW]	Gross depth [mm]
400 V / 3N - 50 Hz	37	12.00	6.000	890

Door clear height [mm]	Gross Height [mm]	Number of arms for both rinsing and washing	Number of programs	Number of skin
850	2200	2	11	2

Tank power [kW]	Gross Volume [m3]	Net Volume [m3]	Gross Weight [kg]	Gross Width [mm]
3.000	1.703	1.211	209.00	870

3. LOCATION ELECTRIC

For the correct operation and placement of the appliance, it is necessary to observe the following all prescribed standards for the given market. Unpack the device and check that the device has not been damaged during transport. Place the device on a horizontal surface (maximum unevenness up to 2°). Small unevenness can be leveled with adjustable feet. If the device will be placed in such a way that it will be in contact with the walls of the furniture, these must withstand a temperature of up to 60°C. Installation, adjustment, commissioning must be performed by a qualified person who is authorized to perform such operations, according to applicable standards. The device can be installed separately or in series with devices of our production. A minimum distance of 10 cm from flammable materials must be observed. In this case, it is necessary to secure the appropriate modifications to ensure the thermal insulation of the combustible parts. The appliance must only be installed on a non-flammable surface or against a non-flammable wall. **Parts of the appliance provided by the manufacturer. or his representative, the worker performing the installation may not rebuild the product.**

4. SAFETY MEASURES FOR FIRE PROTECTION

- the appliance may only be operated by adults
- the appliance may be used safely in accordance with applicable market standards:

Fire protection in spaces with special risk or danger

Protection against the effects of heat

- the appliance must be placed so that it stands or hangs firmly on a non-combustible surface

Objects of flammable substances must not be placed on the appliance at a distance less than a safe distan-

ce from it (the smallest distance between the appliance and flammable substances is 10 cm).

Table: degree of flammability of building materials included in st. flammability of substances and products

Degree of flammability	Building materials
A - non-flammable	granite, sandstone, concrete, brick, ceramic tiles, plaster
B - Not easily flammable	Acumin, Heraclitus, Lihnos, Itaver
C1 - highly flammable	wood, hardwood, plywood, hard paper, umakart
C2 - moderately flammable	chipboards, solodur, cork boards, rubber, flooring
C3 - Highly flammable	wood fiber boards, polystyrene, polyurethane, PVC

- information on the degree of flammability of common building materials is given in the table above. Appliances must be installed in a safe manner. During installation, the relevant design, safety and hygiene regulations must also be respected:
- fire safety of local appliances and heat sources
- fire protection in areas with special risk or danger
- protection against the effects of heat

5. INSTALLATION

Important: The manufacturer does not provide any warranty for defects arising as a result of incorrect use, failure to follow the instructions contained in the attached user manual and mishandling of appliances. Installation, modification and repair of appliances for large kitchens, as well as their dismantling due to possible damage to the gas supply, can only be carried out on the basis of a maintenance contract, this contract can be concluded with an authorized dealer, while technical regulations and standards and regulations must be observed regarding installation, electrical supply, gas connection and work safety. Technical instructions for installation and adjustment, for use by specialized technicians ONLY. The instructions that follow refer to a technician qualified for installation to carry out all operations in the most correct manner and according to the applicable standards. Any activity related to regulation etc. must only be performed with the device disconnected from the network. If it is necessary to keep the appliance under voltage, the utmost care must be taken. The type of appliance for extraction is declared on the nameplate, it is an A1 appliance.

6. WATER CONNECTION

Water connection is done using G1/2 threaded hoses. The water supply must be fitted with separate closures that are freely accessible and within reach of the device. The device includes return valves. The water for filling the duplicator space must be softened - a maximum of 5 ° the French scale of water hardness. The water pressure must be in the range of 50-300 kPa.

7. CONNECTING THE ELECTRICAL CABLE TO THE NETWORK

Installation of the electrical supply - this supply must be separately secured. Ato with the corresponding circuit breaker of rated current depending on the power input of the installed device. Check the power consumption of the device on the production label on the back panel (or side) of the device. The connected ground wire must be longer than the other wires. Connect the device directly to the network, it is necessary to insert a switch between the device and the device with a minimum distance of 3 mm between the individual contacts, which corresponds to the applicable standards and load. The earth supply (yellow-green) must not be interrupted by this switch. Connect the device to the mains if the socket has adequate protection. In any case, the supply cable must be located so that it does not reach a temperature of 50 degrees higher than the environment at any point. Before the appliance is connected to the network, it is necessary to first make sure that:

- the supply circuit breaker and the internal distribution can withstand the current load of the appliance (see matrix label)
- the distribution board is equipped with effective grounding according to the standards of the relevant

market and the conditions given by law
- the socket or switch in the supply is easily accessible from the appliance
- the electrical supply to the device must be made of oil-resistant material

We disclaim any responsibility in the event that these standards are not respected and in the event of a violation of the above principles. Before first use, you must clean the device, see chapter """"cleaning and maintenance"""". The appliance must be grounded using a screw with a grounding mark.

- Do not insert the plug of the power supply into the electrical outlet. sockets and do not pull out the zel. sockets with wet hands and pulling on the power cord!
- Do not use extension cords or multiple sockets.
- **The mains connection point must have a maximum of the following impedance: ZMAX = 0.042 + j 0.026 Ω for the phase conductors and 0.028 + j 0.017 Ω for the neutral conductor.**

Connection to the power grid

It is necessary to install a multi-pole type main switch that breaks all contacts including the neutralconductor, with a gap between the contacts of at least 3 mm and with a thermo-magnetic safety trigger or connected to fuses,

sized or calibrated to the output indicated on the appliance nameplate.

- The main switch must be installed in the electrical wiring close to the installation and must serve only one appliance.

- The mains voltage and frequency must correspond to the information on the nameplate.

- There must be an effective earthing system at the installation site in accordance with the applicable regulations for preventive protection to ensure the safety of the operator and the appliance.

- This device complies with EN/IEC 61000-3-11 certification if the system impedance Zsys is less than or equal to Zmax at the interface point between the user's power system and the public system. It is the responsibility of the installer or user of the equipment to verify that the equipment is connected exclusively to a power supply with a system impedance of Zsys less than or equal to Zmax.

	Zmax
Dishwasher	0,21 Ω
Hood	0,24 Ω
Under the counter	0,41 Ω

Power cable, exclusively type H07RN-F, current carrying capacity in mobile operation at 60 °C on the conductor:

Three-phase appliance
-5x2.5 mm^2 up to 20 A
-5x4 mm^2 up to 30 A
-5x6 mm^2 up to 38 A
-5x10 mm^2 up to 54 A

Single-phase appliance
-3x1.5 mm^2 up to 16 A
-3x2.5 mm^2 up to 25 A

The cable must not be in tension or pinched during normal operation or routine maintenance.

- The appliance must still be connected to the equipotential system, which is connected with a screw with symbol 5021 of IEC 60417.
- The equipotential conductor must have a cross section of 10 mm^2.
- Be sure to observe the correct polarity as indicated in the wiring diagram.
- Please refer to the attached wiring diagram for more information.

Do not use adapters, multiple outlets, improper cable types and cross-sections, or extension cords that do not comply with applicable installation codes.

Connection to the water supply network

The appliance is connected to the water supply via a hose. There must be a shut-off valve between the mains water supply and the electrical valve of the appliance. The shut-off valve shall be installed on the pipework close to the appliance.

- The water supply, temperature and pressure must be in accordance with the information on the appliance's technical data plate.
- Check that the inlet flow is not less than 20 l/min.
- If the water hardness is higher than 14 °f (8 °dH), we recommend using an appliance with an internal softener. If the water hardness is higher than 35 °f (19.5 dH), we recommend installing an external softener in front of the electric valve.
- For appliances not equipped with a water softener; if the water hardness is greater than 14 °f (8 dH), we recommend installing an external softener before the electric valve.
- In case of very high concentrations of mineral deposits in water with high conductivity, we recommend installing a demineralisation device.
- Appliances intended for use with desalinated water or in any case with a high concentration of sodium chloride must be ordered separately, as specific materials are required for their construction.
- Do not use demineralised water in appliances fitted with recycled copper heat recovery units. In these cases, request a version with stainless steel pipework faucets.

Connection to the waste pipe

The drain pipe must be a free siphon inlet of a size suitable for the drain hose supplied with the appliance. The hose shall reach the drain without stretching, straining, bending, pinching, squeezing or any other pressure.

- The drain is self-draining, so the drain must be lower than the bottom of the appliance.

If the drain is not lower than the bottom of the appliance, a model equipped with a drain pump (available on request) can be used.

- In this case, the maximum height of the outflow may be 1 m.
- Always check that the drain is working properly and is not blocked.
- Any other solution must be agreed with and approved by the manufacturer in advance.

Polish and detergent

- The dispensing of the polish is carried out by means of the dispenser, which is installed as standard in the appliance if the model is equipped with one.
- The dosage is determined by the installer depending on the hardness of the water; the technician will also calibrate the dispensers.
- Before calibration, fill the dispenser supply lines with the appropriate product.
- Calibration is performed using the adjustment screws or, if possible, directly from the control panel.

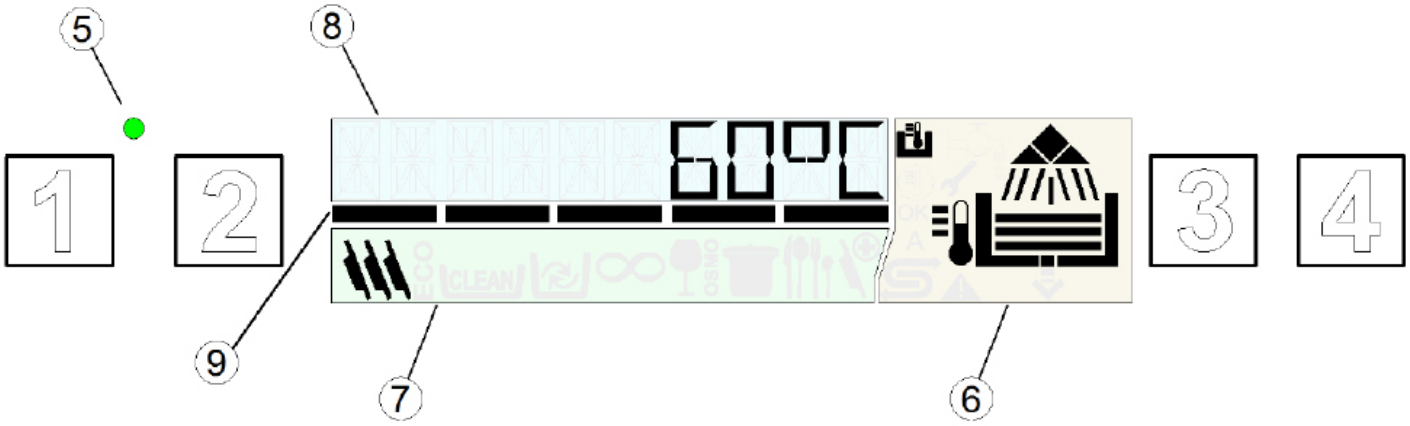
- The liquid level in the reservoir must always be sufficient for dosing; it should never be completely-emptying of the reservoir should not be allowed, nor should corrosives or products containing impurities be introduced into the reservoir.

NEVER use detergents containing CHLORINE or CHLORINES.

We definitely recommend installing an automatic detergent dispenser.

8. INSTRUCTIONS FOR USE

USE OF THE APPLIANCE



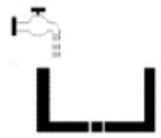
With reference to Fig. 1:			
1	ON/OFF button	6	Area of the STATUS INDICATOR
2	SPECIAL PROGRAMME SETUP button	7	CYCLE IMAGING area
3	PROGRAMME SELECTION button	8	TEXT DISPLAY
4	START button	9	TIMELINE
5	STANDBY indicator light		

Colours and operating states

With reference to Fig.2:

	Green (Fig. 2a) - Machine ready
	Blue (Fig. 2b) - The wash cycle is underway.
	Yellow (Fig. 2c) - The appliance is being prepared - Lack of ingredients for washing - Lack of salt (only version with built-in water softener)
	Red (Fig. 2d) The presence of a serious disorder. - Operation limited or impossible: determine the reported error code and contact technical support if necessary.

Washing phase
During operation, the display in area (6) shows the different phases of the working cycle:

	Filling		Washing
	Heating Achieved working level		Oplach
	Achieved working temperature		Discharge
Symbols of activity			
	Appears when the display shows heater temperature		Appears when the display shows bath temperature
	Automatic start is active		Ongoing regeneration
	Defect: possible limited operation		Fault: activity not possible

Standby

- Turn on the main power switch.
- Open the outside water tap.
- When the machine is in standby mode, the display is off and the STANDBY light (5) is red.

Switching on the choice of programmes

- Check the correct positioning of the wash arms and filters.
- Check the presence of an overflow (if your model has one).
- Check the detergent and rinse aid levels in the tanks.
- Press the ON/OFF button (1) to switch on the appliance, the STANDBY light (5) will turn green.
- During the filling phase, the display is yellow
- When optimal conditions are reached, the DISPLAY will turn green, indicating that the appliance is ready.
- The symbol on the display indicates the set programme.
- You can select between these cycles using the PROGRAM SELECT button (3):

	Dishwashers	Glasswashers	Utensilwashers	
Standard Programmes				PRG 1 For slightly dirty dishes, short programme.
				PRG2 For medium dirty dishes, medium programme.
				PRG3 For very dirty dishes, long programme.
	DRAIN			DRAIN Discharge cycle.
				CLEAN Discharge and final self-cleaning cycle, which is done at the end of the day.

The SPECIAL PROGRAMS SELECT button (2) can be used to select between the following cycles:

Special Programmes		ECO Reduces energy consumption by washing dishes in less water with less temperature compared to the normal wash cycle; well-washed dishes are achieves extended washing time by using mechanical action
		NEW It is recommended if it is necessary to carry out a wash with a complete water change in washing in the bathtub, i.e. repeated washing of dishes that are soiled with large amounts of greaseor oils. a complete water change in the bath requires a longer washing time.
		LONG Continuous washing. The cycle can be ended early by pressing the Start button. After a short the rinse phase will begin. The cycle will automatically end after 12 minutes.
		GLASS For the dishwasher only: It is designed to wash glasses of all shapes and types. This program is designed for dishes of all types and shapes washes dishes with reduced rinse temperatures and requires longer drying times.
		WATER Cycle designed for polished glasses. To be used only in conjunction with a device with by reverse osmosis.
		ACT 1 - ACT 2 It is designed to wash very dirty dishes and dried food residues. Program performs 2 washes and 2 rinses.
		PRG 4 - PRG 5 For very dirty dishes, long program (8'). For very dirty dishes, long programme (10).
		STEEL Suitable for washing forks, spoons, knives and other cutlery of all kinds. This dishwasher the programme takes longer than other programmes using higher temperatures.
		COLD A specific programme for the glasswasher with cold water rinse.
		PLATE Plate washing programme at the dishwasher.
		SAN - Recommended if you need to disinfect washed dishes (EN ISO 15883-1/3). This program controls the temperature and washing time and calculates while the constant A0. The program ends when the parameter A0 reaches the value 30 the duration is variable and averages around 20 minutes and the temperature of the wash water reaches approximately 70 °C. NOTE: If you wish to have a different A0 value than 30, please contact to an authorised technician who will need to make a software change to the appliance.

Installed special programs may vary depending on the model and type of appliance

Basket preparation

With reference to Fig. 4, we recommend following these rules to ensure that the appliance works properly:

- Use the appropriate basket, taking care not to overfill it and not to put dishes over each other.
- Rinse the dishes to remove coarse food residues.

- Always insert empty dishes with the opening facing down.
- Place plates and similar utensils in the appropriate basket, tilted, with the inside facing upwards.
- The various cutlery belongs in a special basket, with the handle facing downwards.
- Do not put silver and stainless steel cutlery in the bin with other cutlery, as the silver will tarnish and the steel may corrode.
- Wash dishes immediately after use to prevent food residue from sticking to them and hardening.
- Only wash undamaged, dishwasher-safe dishes in the dishwasher.

Start of the cycle

- To start the programme, press the START button (4). During washing, the TIMER (9) shows the cycle progress and the display is blue (Fig. 2b) and shows the name of the selected programme.
- When the cycle is complete, the display is green and the text END appears.
- For quick drying, remove the basket from the dishwasher when the cycle is complete.
- To end the wash cycle early, press the START button (4) again.

Automatic cycle start

This function allows you to start the selected cycle by simply closing the door (or lid) without pressing any button; you can activate the function as follows:

"A" on the display indicates that the function is active.
- If the function is not activated from the factory, it must first be activated in the settings menu.
- To switch off the function, press the START button (4) on the appliance with the door open for a few seconds.
This function will only remain active for one cycle.

NOTE: For lidded versions, automatic start-up is automatically enabled after the first duty cycle: subsequent cycles are then started automatically when the lid is closed. This mode is indicated by the letter "A" on the display.

Information display

- By holding down the START button (4) for a few seconds, the temperature of the water heater in the bath and the number of cycles performed by the dishwasher can be displayed in turn.
This data can be displayed both before and during the cycle and will only be displayed for a certain period of time.
- By holding the PROGRAM SELECT button (3) down for a few seconds, the bath water heater temperature can be displayed permanently for all programs.
- This function can be cancelled by pressing the PROGRAM SELECT button (3) again for a few seconds.

Switching off the appliance

To switch off the appliance, press the ON/OFF button (1), only the STANDBY light (5) will remain on to indicate the presence of voltage.
NOTE: If the dishwasher is left on with the door open for more than one hour, it will switch off automati-

cally.

Removing the full filter

- Set the washing and rinsing arms perpendicular to the edge of the door.
- Lift each half of the filter by grasping the handle (Fig. 7).

Draining the appliance

Appliances without drain pump

- Switch off the appliance.
- Remove the full filter, if fitted to the model (Fig. 7A).
- Pull the overlap upwards (Fig. 7).
- Wait until the tub is completely empty.
- If necessary, remove the bath filter and clean it.

Appliances with drain cycle (*optional)

- With the appliance switched on, press the PROGRAM SELECTION button (3) until the ProClean or ProDrain program is selected.
- Press the START button (4) to start the drain and self-cleaning program.
- When the discharge is complete, the dishwasher will switch off, leaving only the STANDBY light (5) on to indicate the presence of voltage.

Resin regeneration (*optional)

For appliances equipped with a built-in softener, the  symbol indicates that the appliance is performing a resin regeneration cycle and that the ongoing wash programme could take longer.

NOTE: Do not turn off the appliance while it is performing a regeneration cycle.

For appliances equipped with a softener, the "NO SALT" signal means that salt must be added to the appropriate container; proceed as follows:

- Remove the basket from the appliance.
- Remove the complete filter (Fig. 7).
- Unscrew the cap of the salt container (Fig. 8).
- Using the funnel provided, pour in about 700 g of regeneration salt (table salt without additives with an average grain size of 1 or 2 mm).
- Close the tray tightly, press.
- After a few minutes, the "NO SALT" signal disappears.

Appliances with external softener

For appliances equipped with an external softener, the "SERVICE" message will appear after a certain num-

ber of cycles to alert the user that a resin regeneration cycle using an external softener is required. The indicator will also illuminate with the appliance off; to remove it, hold all 4 buttons for at least 5 seconds with the appliance off and the door open.

Termination of operation

- Always drain the appliance at the end of the day as described in the section "Draining the appliance".
- Cut off the electrical supply using the main switch and close the outside tap.
- Carry out routine maintenance and cleaning of the appliance according to the instructions in the "Maintenance" section.
- If possible, leave the door of the dishwasher ajar to prevent unpleasant odours inside.

MAINTENANCE

General rules

Before any maintenance activity, drain all water, disconnect the electrical supply and close the outside tap.

Do not use water jets under pressure as they can damage the electrical system.
Wash the outer surfaces after they have cooled down using products specifically designed for steel maintenance.
If freezing is imminent, drain all water from the heater and pump.

Cleaning

To ensure the proper operation of the appliance, the maintenance procedures described below must be carried out regularly.
We also recommend regular disinfectant cleaning with suitable non-corrosive disinfectants that you can buy in the shop.

Cleaning the filter unit

Perform this procedure after the end of the working day or you will notice dirt on the filters:
1. Remove and clean the bins.
2. Drain the bath as instructed in the "Draining the appliance" section.
3. Remove and thoroughly clean all filters in the dishwasher.
4. Do not use abrasives or tools to clean the steel tub.
5. After performing the above steps, carefully put all parts back in place.

Cleaning the washing arms

The washing and rinsing arms can be easily removed so that the nozzles can be cleaned regularly to prevent possible blockages or deposits.
Proceed as follows:

- Remove the arms by unscrewing the relevant fixing clamp or by unhooking the quick coupler if the

dishwasher is equipped with one.

- Wash all parts under running water, clean the nozzles carefully, for example with a toothpick or small tool.
- Clean the pivot pins of the arms inside the appliance and the outlet of the wash and rinse water.
- After washing, return the arms and check for free rotation.

SELF DIAGNOSTICS

The machine is equipped with a self-diagnosis system that registers and warns of a number of malfunctions.

Fault	Description and possible remedies
Er01	No rinsing. The rinsing cycle was not completed correctly. Make sure that the rinsing nozzles are clean.
Er02	No water drained. The water was not drained or drained incorrectly. Check that the drain pipe is not bent or crushed and that the siphon and filters are not blocked. In machines fitted with an overflow pipe, remove this before starting the drainage cycle.
Er03	Rinse temperature reset fault. The boiler temperature did not reset in the set time during the washing cycle. Switch the machine off and then on and run a new cycle.
Er04	Water filling in tank fault. Make sure the pipes are connected correctly, and that the water tap is open. Where foreseen, check the presence of the overflow. Switch the dishwasher off and then on and fill again.
Er05	Tank thermometer fault (Probe open). The machine does not read the tank temperature value. Switch the dishwasher off and then on.
Er06	Tank thermometer fault (Probe short circuited). The machine does not read the tank temperature value. Switch the dishwasher off and then on.
Er07	Boiler thermometer fault (Probe open). The machine does not read the boiler temperature value. Switch the dishwasher off and then on.
Er08	Boiler thermometer fault (Probe short circuited). The machine does not read the boiler temperature value. Switch the dishwasher off and then on.
Er09	Boiler loading timeout: boiler not filled. Impossible to carry out rinse cycle. Check that the water tap is open. Switch the dishwasher off and then on and run a new cycle.
Er21	Insufficient rinse. The right amount of rinsing did not take place; make sure the rinse nozzles are clean. The error does not block the machine.
Er22	Tank temperature reset fault. The tank temperature did not reset in the set time during the washing cycle. Switch the machine off and then on and run a new cycle.
Er25	Run external regeneration. The number of litres set for external water treatment equipment has been reached; the error does not prevent dishwasher operation. The message can be reset from the settings in menu 12.
ErSF	Electro-mechanical safety device. The boiler or tub safety thermostats have been tripped, or the tub safety pressure switch has been triggered.
ErSL	Level safety switch. Incorrect water level in the tank.
Erb	Excessive Boiler Temperature. Probable heating contactor/relay failure.
Ert	Excessive Tub Temperature. Probable heating contactor/relay failure.
drt	Dirty filter. Incorrect water level in tub, caused by dirty filter or poorly inserted overflow.

Fault	Description and possible remedies
ErSI	Supply safety error. Fatal error, contact a technical assistance centre.
Er98	Soft start error. Soft start system error, contact a technical assistance centre.
NO SALT	No salt. In dishwashers with water softener, this means that there is no salt. Add salt.
NO DT	No detergent. Add detergent in the priming tank.
NO BL	No rinse aid. Add rinse aid in the priming tank.
SERV	Maintenance required. General maintenance is required, if pre-set.
REG ON	Regeneration in progress. The regeneration cycle for the water softener resin is underway.
REG REQ	Regeneration Required. Start the regeneration if not automatically scheduled.
Er27	Boiler gradient error. The boiler is not heating correctly.

Er28	Tub gradient error. The tub is not heating correctly.
Er99	Auxiliary board error. Communication with the auxiliary board is not correct.
Er30	Automatic open error. In dishwashers with hood with automatic open, the opening system is not operating correctly. Check that nothing is stopping the hood from opening. If the problem persists, contact a technical assistance centre.
Er31	Automatic close error. In dishwashers with hood with automatic open, the closing system is not operating correctly. Check that nothing is stopping the hood from closing. If the problem persists, contact a technical assistance centre.
Er33	Osmosis with minimum pressure. Check that the water tap is open.
Er34	Osmosis water loss. Close the power and water supply for the dishwasher; contact a technical assistance centre.
Er35	Osmosis conductivity error. Osmosis system does not work properly, contact a technical assistance centre.
Er36	Osmosis filter. The osmosis filter needs to be replaced; contact a technical assistance centre.
Er37	Boiler heating timeout. The rinse water heating element does not work properly; contact a technical assistance centre.
Er38	Tub heating timeout. The wash water heating element does not work properly; contact a technical assistance centre.
Er39	Faulty boiler pressure switch.
Er40	Faulty tank pressure switch.
Switching the dishwasher off and then on again „resets“ the signals; if after carrying out the instructions given the problem persists, contact an Authorised Service Centre.	

ATTENTION! Switching the appliance off and then on will "reset" the alarm; if the problem persists after following the instructions, contact an authorised service centre.

ADJUSTMENT AND SETTING

The following settings may only be carried out by professionally qualified personnel.

The following parameters can be set during installation or later by entering the Settings menu in the following way:

- Appliance in standby mode with the door open.
- Press simultaneously buttons 1 and 2 (ON/OFF and SPECIAL PROGRAMS SELECTION) for 5 seconds and insert KEY 12 (buttons 3 and 4 to change the parameter, 1 to confirm).
- Subsequently, by pressing button 1 (ON/OFF) repeatedly, the following items can be scrolled through and activated and/or changed by pressing buttons 3 and 4 (the changed parameter remains in memory without the need for confirmation). The list of parameters may vary depending on the type of appliance.

Language	Choice of language
Boiler Set	Heater temperature setting for programs. In versions with atmospheric heater (rinse pump) there are different settings for each program (PR1 - PR2 - PR3)
Tank Set	Bath temperature setting for programs. In versions with rinse pump there are different settings for each program (PR1 - PR2 - PR3)
ThermoStop	Switching on the Thermostop function to guarantee the correct rinse temperature.
Energy Saving	Activate the Energy Saving function, which ensures energy savings when the appliance is switched on but not in use.
Manual Detergent	Manual switching on of the detergent dispenser
Manual Rinse Aid	Manual switching on of the polish dispenser
Detergent Dose	Detergent dosing time
Rinse Aid Dose	Polish dosing time
Water Hardness	Adjusting the hardness of the incoming water for machines with built-in water softener, according to the measured water hardness.

External Softener Cycles	Setting and switching on the cycle counter that activates the maintenance (Service) signal for the external softener. You can remove the "Service" sign by holding down all 4 buttons with the appliance switched off and the door open.
Manual Rinse Pump	Manual switching on of the rinse pump
Manual Drain	Manual switching on of the drain pump
Autostart Enable	Enabling automatic start
Cycle Counter	Cycle counter
After setting the desired parameters, the programming can be exited with the values saved by pressing button 1 until the display goes off.	

Water hardness table

The table below shows the relationship between the German and French hardness setting grades.

Measured hardness			
°fr		°dGH	
0 ÷ 20	41 ÷ 45	O ÷ 11	23 ÷ 25
21 ÷ 25	46 ÷ 5O	12 ÷ 14	26 ÷ 28
26 ÷ 30	51 ÷ 55	15 ÷ 17	29 ÷ 31
31 ÷ 35	56 ÷ 60	17 ÷ 20	31 ÷ 34
36 ÷ 40		20 ÷ 22	

9. CLEANING AND MAINTENANCE

It is recommended to have the device checked with a specialist service at least once a year. All the interventions in the device can only be carried out by a qualified person who has the authorization to do so. **CAUTION!** The device must not be cleaned with direct or pressure water. Clean the equipment daily. Daily maintenance extends the life and efficiency of the equipment. Always turn off the main inlet to the device. Wash the stainless steel parts with a damp cloth with a detergent without coarse particles and wipe dry. Do not use abrasive or corrosive cleaning agents. Attention! Before using the device, it is necessary to remove the protective foil from the entire surface, and then wash it well with water with detergent, and then wipe it with a damp cloth. **ALERT!** The warranty does not apply to all consumables subject to normal wear (rubber seals, bulbs, glass and plastic parts, etc.). The warranty also does not apply to the device if the installation is not carried out in accordance with the instructions - an authorized worker according to the corresponding standards and if the equipment was unprofessionally manipulated (interventions in the internal equipment, etc.) or were operated by unhappy staff and contrary to the instructions for use, further The warranty does not apply to damage by natural effects or other external intervention. **Required service organization 2 times a year. After the lifetime, the shipping packaging and equipment are submitted to the collection, according to the regulations on waste management and hazardous waste.**