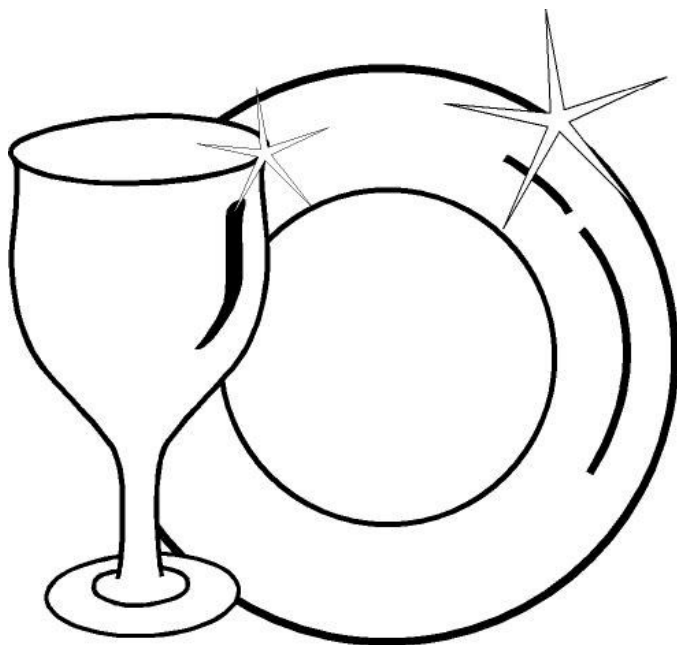


*Dishwasher*  
*Instruction Manual*  
**OM 6640-90 RT/X**

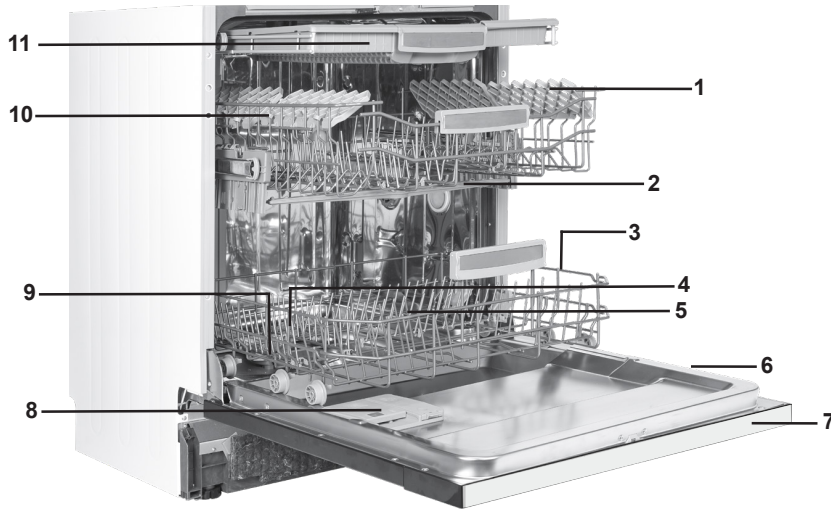


**GRAM**

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1. Upper basket with racks
2. Upper spray arm
3. Lower basket
4. Lower spray arm
5. Filters

6. Rating plate
7. Control Panel
8. Detergent and rinse-aid dispenser
9. Salt dispenser
10. Upper basket track latch
11. Upper Cutlery Basket



12

**Turbo Drying Unit:** This system provides better drying performance for your dishes.



13

**Ceiling Spray Arm:** It provides better washing for the dishes at upper basket.



14

**Interior light :** Provides illumination inside the dishwasher helping with loading and un-loading.

## Technical specifications

Capacity	15 plate settings
Height	820 mm- 870 mm/870mm- 920mm
Width	598 mm
Depth	570 mm
Net Weight	43 kg
Electricity input	220-240 V, 50 Hz
Total Power	1900 W
Heating Power	1800 W
Pump Power	100 W
Drain Pump Power	30 W
Water supply pressure	0.03 MPa (0,3 bar)-1 MPa (10 bar)
Current	10 A

### Conformity with the standards and Test data / EC Declaration of Conformity

This product meets the requirements of all applicable EC directives with the corresponding harmonised standards, which provide for CE marking.

**Important Note for User:**For softcopy of this user manual, please contact following address:

**"dishwasher@standardtest.info"**.In your e-mail, please provide the model name and serial number (20 digits) which you can find on the appliance door.

# **SAFETY INFORMATION AND RECOMMENDATIONS**

## **Recycling**

- Certain components and the packaging of your machine have been produced from recyclable materials.
- Plastic parts are marked with international abbreviations: (>PE< , >PS< , >POM< , >PP< , )
- Cardboard parts have been produced from recycled paper and they should be disposed of into waste paper collection containers for recycling.
- Such materials are not suitable for being disposed of into garbage bins. They should be delivered to recycling centres instead.
- Contact relevant centres in order to obtain information on methods and points of disposal.

## **Safety Information**

### ***When you take delivery of your machine***

- Check for any damage to your machine or to its packaging. Never start a machine damaged in any way, make sure to contact GRAM service.
- Unwrap the packaging materials as indicated and dispose of them in accordance with the rules.

### ***The points to pay attention during machine installation***

- Choose a suitable, safe and level place to install your machine.
- Carry out the installation and connection of your machine by following the instructions.
- This machine should be installed and repaired by an authorised service only.
- Only original spare parts should be used with the machine.
- Before installing, be sure that the machine is unplugged.

- Check whether the indoor electrical fuse system is connected according to the regulations.
- All electrical connections must match the values indicated on the rating plate.
- Pay special attention and be sure that the machine does not stand on the electricity supply cable.
- Never use an extension cord or a multiple socket for making a connection. The plug should be comfortably accessible after the machine has been installed.
- After installing the machine to a suitable place, run it unloaded for the first time.

### **In daily use**

- This machine is for household use; do not use it for any other purpose. Commercial usage of the dishwasher will void the guarantee.
- Do not get up, sit or place a load on the open door of the dishwasher, it may fall over.
- Never put into the detergent and rinse aid dispensers of your machine anything other than those detergents and rinse aids which are produced specifically for dishwashers. Our company will not be responsible for any damage that might occur in your machine otherwise.
- The water in the machine's washing section is no drinking water do not drink it.
- Due to danger of explosion, do not put into the machine's washing section any chemical dissolving agents such as solvents.
- Check whether plastic items are heat-resistant before washing them in the machine.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or

mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Do not put into your machine those items which are not suitable for dishwashing. Also, do not fill any basket above its capacity. Our company will not be responsible for any scratch or rust to form on the inner frame of your machine due to basket movements otherwise.

- Especially because hot water may flow out, the machine door should not be opened under any circumstances while the machine is in operation. In any case, a safety device ensures that the machine stops if the door is opened.

- Do not leave your dishwasher's door open. Failure to do so may lead to accidents.

- Place knives and other sharp-ended objects in the cutlery basket in blade-down position.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

- This appliance is not intended for use by persons (including - children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

- If EnergySave option is selected as "Yes", The door will be opened at the end of the program. Do not force to close the door to avoid harm auto door mechanism during 1 minutes. The door must be open during 30 minutes to get effective drying. ( in models with auto door opening system )

**Warning:** Do not stand in front of the door after the signal sounds belonging auto-open.

## **For your children's safety**

- After removing the machine's packaging, make sure that the packaging material is out of reach of children.
- Do not allow children to play with or start the machine.
- Keep your children away from detergents and rinse aids.
- Keep children away from the machine while it is open because there may still be residues of cleaning substances inside the machine.
- Be sure that your old machine does not pose any threat to your children. Children are known to have gotten themselves locked in old machines. To forestall such a situation, break your machine's door lock and tear off the electrical cables.

## **In case of malfunctioning**

- Any malfunction in the machine should be repaired definitely by qualified persons. Any repair work performed by anyone other than the authorised service personnel will cause your machine to be left outside the scope of warranty.
- Prior to any repair work on the machine, be sure that the machine is cut off from the mains. Switch off the fuse or unplug the machine. Do not pull by the cable when unplugging. Make sure to turn off the water tap.

## **Recommendations**

- For energy and water saving, remove coarse residues on your dishes before placing the dishes into the machine. Start your machine after having fully loaded it.
- Use the pre-wash programme only whenever necessary.
- Place such hollow items as bowls, glasses and pots into the machine in such a way that they will face down.
- You are recommended not to load into your machine any dishes different or more than indicated.

## **Items not suitable for dishwashing:**

- Cigarette ashes, candle leftovers, polish, paint, chemical substances, iron-alloy materials;
- Forks, spoons and knives with wooden or bone, or ivory or nacre-coated handles; glued items, items soiled with abrasive, acidic or base chemicals.
- Plastic items that are not heat-resistant, copper or tin-coated containers.
- Aluminium and silver objects (they may discolour, become dull).
- Certain delicate glass types, porcelains with ornamental printed patterns as they fade even after the first wash; certain crystal items as they lose their transparency over time, adhered cutlery that is not heat-resistant, lead crystal glasses, cutting boards, items manufactured with synthetic fibre;
- Absorbent items as sponges or kitchen rags are not suitable for dishwashing.

**Warning:** Take care to buy dishwasher-proof sets in your future purchases.

## **INSTALLING THE MACHINE**

### **Positioning the machine**

When determining the place to put your machine on, take care to choose a place where you can easily load and unload your dishes.

Do not put your machine in any location where there is the probability for the room temperature to fall below 0°C.

Before positioning, take the machine out of its packaging by following the warnings located on the package.

Position the machine close to a water tap or drain. You need to site your machine, taking into consideration that its connections will not be altered once they are made.

Do not grip the machine by its door or panel in order to move it.

Take care to leave a certain clearance from all sides of the machine so that you can comfortably move it back and forth during cleaning.

Make sure that the water inlet and outlet hoses do not get squeezed while positioning the machine. Also, make sure that the machine does not stand on the electrical cable.

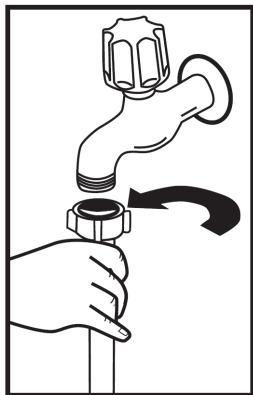
Adjust the machine's adjustable feet so that it can stand level and balanced. Proper positioning of the machine ensures problem-free opening and closing of its door.

If the door of your machine does not close properly, check if the machine is stable on the floor it stands; if not, adjust the adjustable feet and ensure its stable position.

## **Water connection**

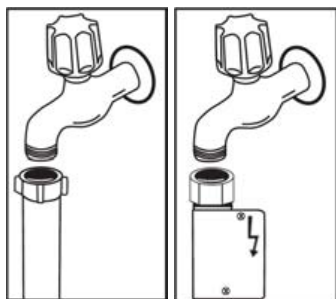
Be sure that the indoor plumbing is suitable for installing a dishwasher. Also, we recommend that you fit a filter at the entrance of your place or apartment so as to avoid any damage to your machine because of any contamination (sand, clay, rust etc.) that might be occasionally carried in through the mains water supply or the indoor plumbing, and to forestall such complaints as yellowing and formation of deposits after washing.

## Water inlet hose

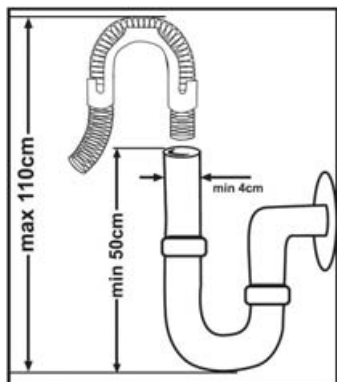


Do not use the water inlet hose of your old machine, if any. Use the new water inlet hose supplied with your machine instead. If you are going to connect a new or long - unused water inlet hose to your machine, run water through it for a while before making the connection. Connect the water inlet hose directly to the water inlet tap. The pressure supplied by the tap should be at a minimum of 0.03 Mpa and at a maximum of 1 Mpa. If the water pressure is above 1 Mpa, a pressure-relief valve should be fitted in between.

After the connections are made, the tap should be turned on fully and checked for water tightness. For the safety of your machine, make sure to always turn off the water inlet tap after each wash programme is finished.



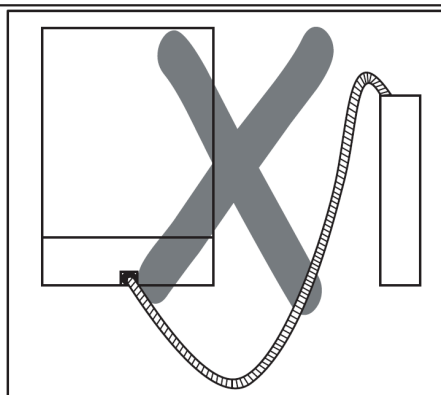
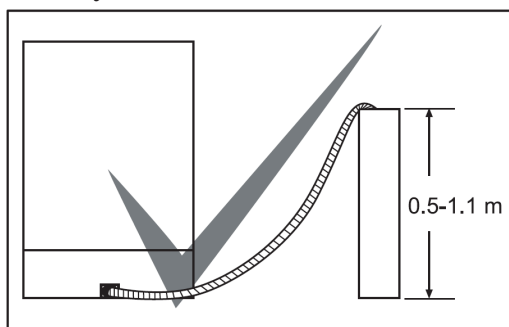
**NOTE:** Aquastop water spout is used in some models. In case of using Aquastop, a dangerous tension exists. Do not cut Aquastop water spout. Do not let it get folded or twisted.



## Water outlet hose

The water drain hose can be connected either directly to the water drain hole or to the sink outlet spigot. Using a special bent pipe (if available), the water can be drained directly into the sink via hooking the bent pipe over the edge of the sink. This connection should be at a minimum of 50 cm and at a maximum of 110 cm from the floor plane.

**Warning:** When a drain hose longer than 4 m is used, the dishes might remain dirty. In that case, our company will not accept responsibility.



## **Electrical connection**

The earthed plug of your machine should be connected to an earthed outlet supplied by suitable voltage and current. If there is no earthing installation, have a competent electrician carry out an earthing installation. In case of usage without earthing installed, our company will not be responsible for any loss of usage that might occur.

The indoor fuse current value should be 10-16 A.

Your machine is set according to 220-240 V. If the mains voltage in your location is 110 V, connect a transformer of 110/220 V and 3000 W inbetween. The machine should not be plugged in during positioning.

Always use the coated plug supplied with your machine.

Running in low voltage will cause a decline in washing quality.

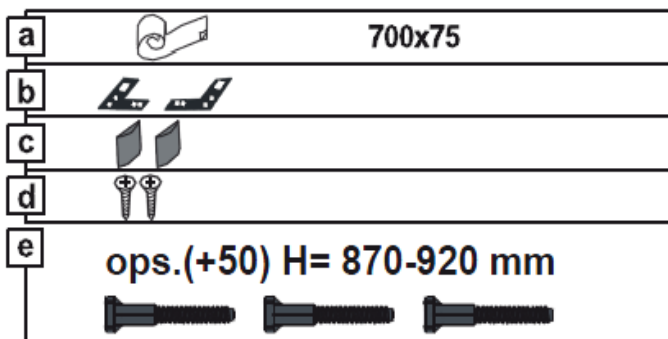
The machine's electrical cable should be replaced by an authorised service or an authorised electrician only. Failure to do so may lead to accidents.

For safety purposes, always make sure to disconnect the plug when a wash programme is finished.

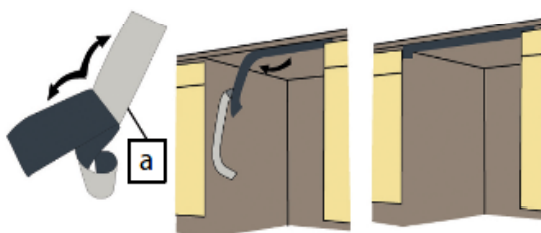
In order not to cause an electric shock, do not unplug when your hands are wet.

When disconnecting your machine from the mains supply, always pull from the plug. Never pull the cord itself.

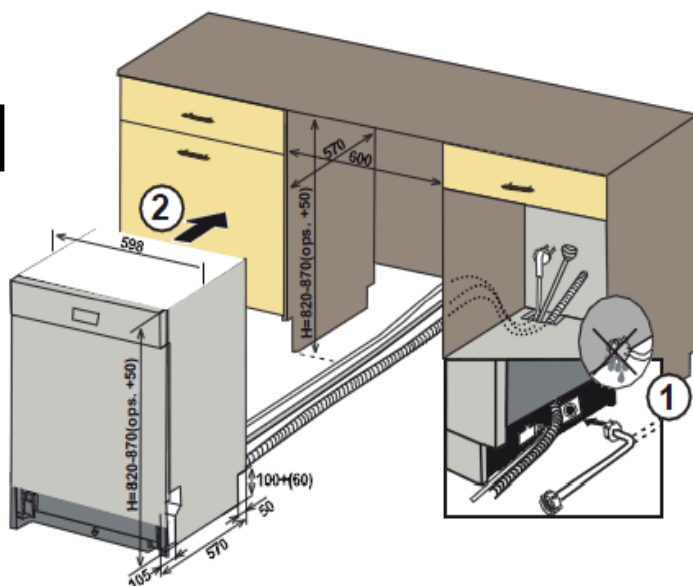
## Fitting the machine undercounter



1

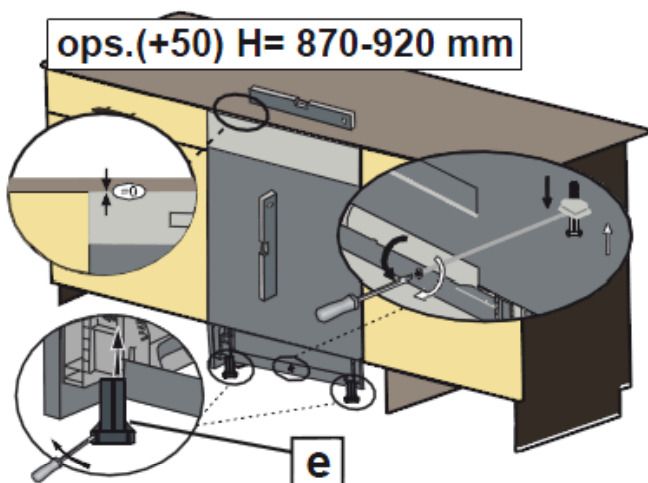


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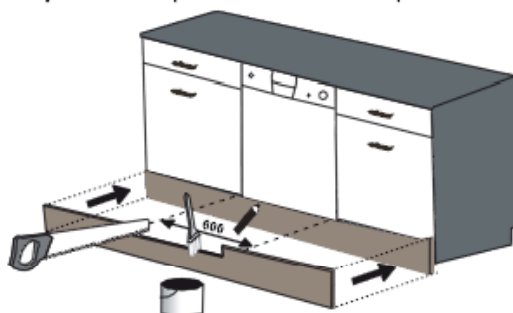
**4-b** Follow the list of instructions is given with the kit. (Optional) (52075772 )

ops.(+50) H= 870-920 mm



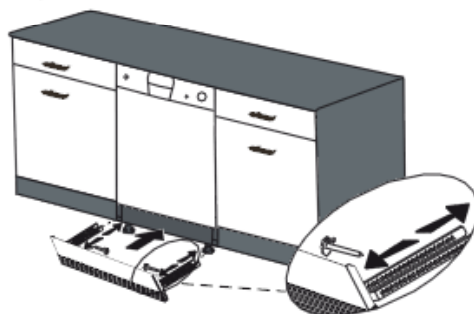
**5**

**Option 1 :** To put the furniture kickplate.

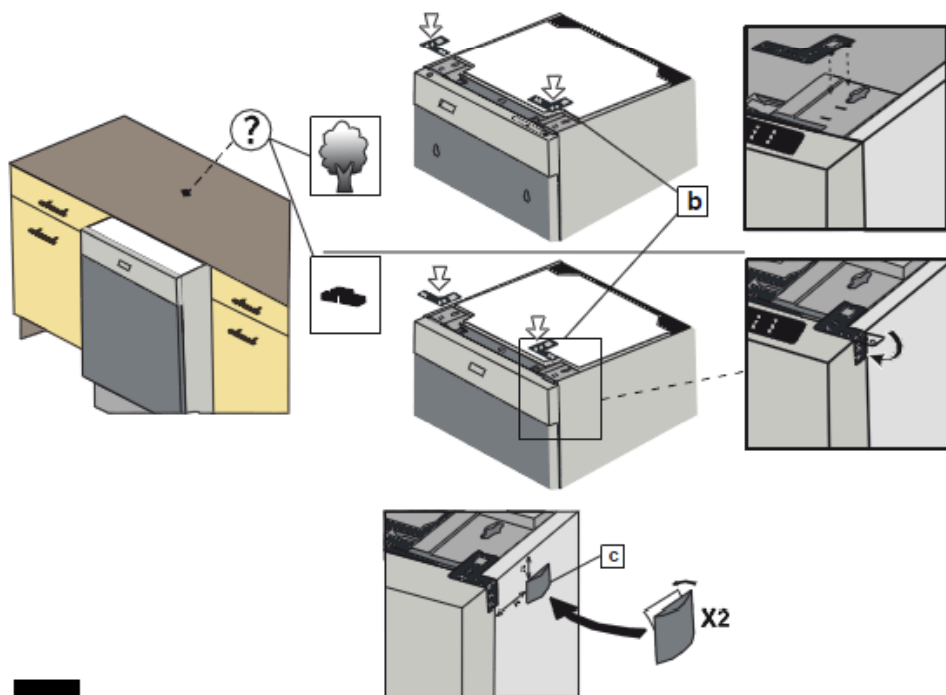


**6**

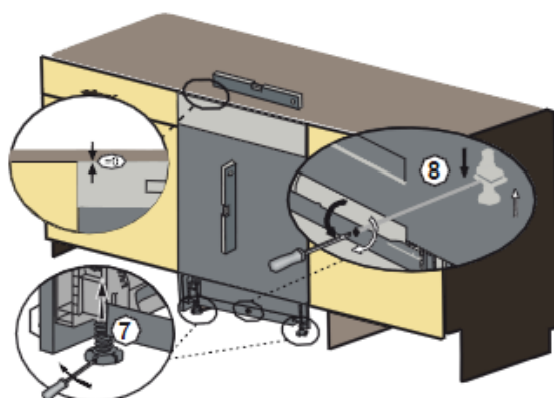
**Option 2 :** To put the adjustable plint group.  
Follow the instructions is given with adjustable plint group.



3



4-a



### **Prior to using the machine for the first time**

- Check whether the electricity and supply water specifications match the values indicated by the installation instructions for the machine.
- Remove all packaging materials inside the machine.
- Set the water softener.
- Add 1 kg salt into the salt compartment and fill with water up to a level at which it will almost overflow.
- Fill the rinse aid compartment.

## **PREPARING THE MACHINE FOR USE**

### **The importance of water decalcification**

For a good washing function, the dishwasher needs soft, i.e. less calcareous water. Otherwise, white lime residues will remain on the dishes and the interior equipment. This will negatively affect your machine's washing, drying and shining performance. When water flows through the softener system, the ions forming the hardness are removed from the water and the water reaches the softness required to obtain the best washing result. Depending on the level of hardness of the inflowing water, these ions that harden the water accumulate rapidly inside the softener system. Therefore, the softener system has to be refreshed so that it operates with the same performance also during the next wash. For this purpose, dishwasher salt is used.

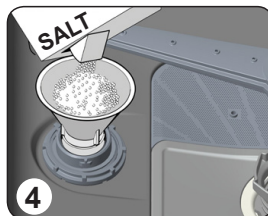
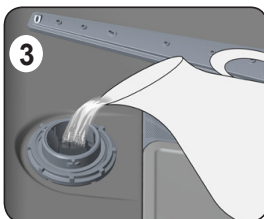
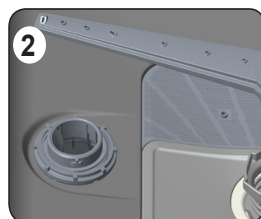
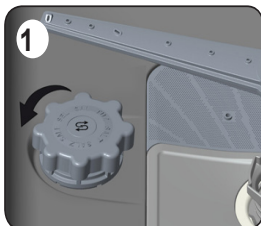
### **Filling with salt**

Use softener salt specifically produced for use in dishwashers. To put softener salt, first remove the lower basket and then open the salt compartment cap by turning it counter clockwise. **1** At first fill the compartment with 1 kg salt and water **3** at overflowing level. If available, using the funnel **4** provided will make filling easier. refit the cap and close it. If the salt warning lamp on the control panel becomes on fill the salt compartment with salt again.

#### **Fill the salt compartment with water at first use only.**

If you put a tablet into the salt compartment, do not fill the compartment completely. We recommend that you use small-grained or powder softener salt. Do not put table salt into your machine. Otherwise, the function of the softener compartment may decrease over time. When you start your dishwasher, the salt

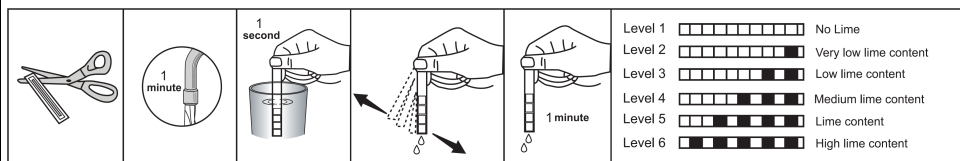
compartment gets filled with water. Therefore, put the softener salt prior to starting your machine. This way, overflowing salt gets immediately cleaned up through the wash operation. If you are not going to wash any dishes immediately after putting salt, then run a short washing program with an empty machine in order to avoid any damage ( to prevent corrosion ) to your machine due to the salt overflow while filling in the salt container.



### Testing strip

The washing effectiveness of your machine depends on the softness of the tap water. For this reason, your machine is equipped with a system that reduces the hardness in mains water supply. The washing effectiveness will increase when the system is correctly set. To find out the water hardness level of water in your area, contact your local water board or determine water hardness level by using the test strip(if available).

Open the testing strip.	Run water through your tap for 1 min.	Keep the testing strip in water for 1 sec.	Shake the testing strip after taking it out of water.	Wait for 1 min.	Make your machine's water hardness setting according to the result obtained through the testing strip.
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### Adjusting salt consumption

**Table of Water Hardness Level Settings**

Water hardness level	German hardness dH	French hardness dF	British hardness dE	Hardness Level Indicator
1	0-5	0-9	0-6	L1 is seen on display.
2	6-11	10-20	7-14	L2 is seen on display.
3	12-17	21-30	15-21	L3 is seen on display.
4	18-22	31-40	22-28	L4 is seen on display.
5	23-31	41-55	29-39	L5 is seen on display.
6	32-50	56-90	40-63	L6 is seen on display.

### Setting

- Turn the machine on by pressing the On/Off button.
- Press the Delay button for at least 3 seconds immediately after the machine is turned on.
- Release the Delay button when "SL" is shown. Next, the last setting level is displayed.
- Press the Half Load button to set the desired level. Each press of the Half Load button increases/decreases the level. Once level 6 has been reached, the next press returns the level to 1 or vice versa.
- The last selected water hardness level is stored in the memory by turning the machine off with the On/Off button.

If the hardness of the water you use is above 90 dF (French hardness) or if you are using well water; you are recommended to use filter and water refinement devices.

**NOTE:** Hardness level is adjusted to level 3 as a factory setting.

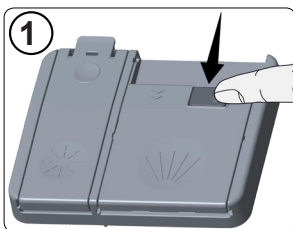
### ***Detergent usage***

Use a detergent specifically designed for use in domestic dishwashers. You can find powder, gel, and tablet detergents in the market that have been designed for household dishwashers.

Detergent should be put into the compartment prior to starting the machine. Keep your detergents in cool, dry places out of reach of your children.

Do not fill detergent into the detergent compartment more than required; otherwise it may cause scratches on your glasses as well as lead to a poorly dissolved detergent.

Should you need more information concerning the detergent you will use, contact detergent manufacturers directly.



#### ***Filling the detergent compartment***

Push the latch to open the detergent container as shown in the image. **1** Detergent pod has level lines inside. It is possible to measure the right detergent amount using these lines. Detergent pod can take totally 40 cm<sup>3</sup> detergent.

Open the dishwasher detergent and pour into

the larger compartment 25 cm<sup>3</sup> if your dishes are heavily soiled or 15 cm<sup>3</sup> if they are less soiled. **2**



### ***Combined detergent***

Detergent manufacturers also produce combined detergents called "2 in 1", "3 in 1" or "5 in 1" etc.

"2 in 1" detergents contain detergent + salt or rinse aid. When using "2 in 1" detergents make sure to check the specifications of the tablet.

Other tablet detergents contain detergent + rinse aid + salt + various extra functions.

Generally, combined detergents produce sufficient results under certain usage conditions only. Such detergents contain rinse aid and/or salt in preset amounts

### ***Points to consider when using this type of products:***

- Always make sure to check the specifications of the product you will use or whether or not it is a combined product.
- Check if the detergent used is appropriate for the hardness of mains water that machine is pertaining to.
- Observe the instructions on packagings when using such products.
- If such detergents are in the form of tablets, never put them into the interior section or the cutlery basket of the dishwasher. Always put the tablets into the detergent compartment in the detergent dispenser.

- They produce good results for certain types of usage only. If you are using this type of detergents, you need to contact the manufacturers and find out about the suitable conditions of use.
- When the conditions of use of such products and the machine settings are appropriate, they ensure savings in salt and/or rinse aid consumption.
- Contact the detergent manufacturers if you are not obtaining good wash results (if your dishes stay calcareous and wet) after having used 2 in 1 or 3 in 1 detergents. The scope of warranty for your machine does not cover any complaints caused by the use of these types of detergents.

**Recommended usage:** If you want to obtain better results while using combined detergents, add salt and rinse aid into your machine and adjust the water hardness setting and the rinse aid setting to the lowest position.

**!** Solubility of the tablet detergents produced by different companies can vary depending on the temperature and time. Therefore, it is not recommended to use such detergents in short programs. It is more suitable to use powder detergents in such programs.

**Warning:** Should any problem, which you have not encountered before, arise with the use of this type of detergents, contact the detergent manufacturers directly.

### **When you give up using combined detergents**

- Fill the salt and rinse aid compartments.
- Adjust the water hardness setting to the highest position ( 6 ) and run an empty-wash.
- Adjust the water hardness level.
- Make the suitable rinse aid setting.

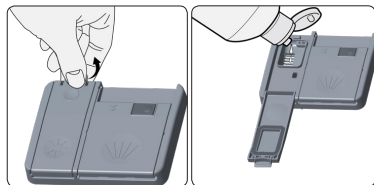
### **Filling the rinse-aid and setting**

To fill the rinse aid compartment, open the rinse-aid compartment cap. Fill the compartment with rinse aid to the MAX level and then close the cap. Be careful not to overfill the rinse aid compartment and wipe up any spills.

**In order to change the rinse aid level, follow the below steps before turning on the machine:**

- Turn off the machine by pressing the On/Off button.
- Press the Delay button for at least 5 seconds immediately after the machine is turned on.
- Release the Delay button when "rA" is shown. Rinse aid level setting follows water hardness level setting. Next, the last setting level is displayed.
- Set the level by pushing the Delay button.
- Switch off the machine to save the setting.
- The factory setting is "4".

If the dishes are not drying properly or are spotted, increase the level. If blue stains form on your dishes, decrease the level.



Level	Brightener Dose	Indicator
1	Rinse-aid not dispensed	r1 is shown on the display.
2	1 dose is dispensed	r2 is shown on the display.
3	2 doses are dispensed	r3 is shown on the display.
4	3 doses are dispensed	r4 is shown on the display.
5	4 doses are dispensed	r5 is shown on the display.

## LOADING YOUR DISHWASHER

If you properly place your dishes into the machine, you will be using it in the best way in terms of energy consumption, washing and drying performance.

There are two separate baskets for you to load your dishes into your machine. You can load into the lower basket such round and deep items as pots with long handles, pot lids, plates, salad plates, cutlery sets.

The upper basket has been designed for tea plates, dessert plates, salad bowls, cups and glasses. When placing long-stem glasses and goblets, lean them against the basket edge, rack or glass supporter wire and not against other items. Do not lean long glasses against one another or they cannot remain steady and may receive damage.

It is more appropriate to locate the thin narrow parts into the middle sections of baskets.

You can place spoons among the other cutlery sets in order to prevent them from sticking to one another. You are recommended to use the cutlery grid in order to obtain the best result.

To avoid any possible injuries, always place such long-handle and sharp-pointed dishes as serving fork, bread knife etc. with their sharp points facing down or horizontally on the baskets.

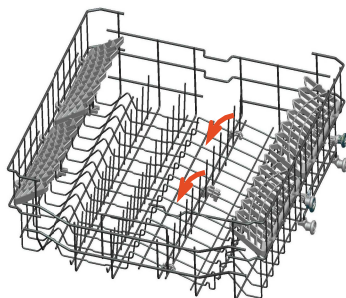
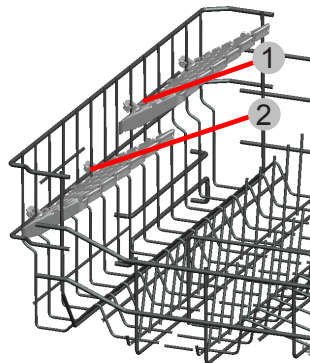
**Warning:** Place your dishes into your machine in a way that they will not prevent the upper and lower spray arms from spinning.

### **Top basket**

#### **Height Adjustable Rack**

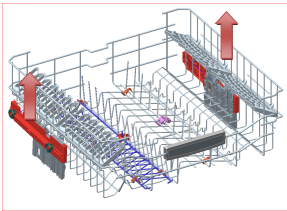
These racks are designed to increase the capacity of the top basket. You can place your glasses and cups on the racks. You can adjust the height of these racks. Thanks to this feature, you can place different sizes of glasses under these racks.

Thanks to height adjustment plastics mounted on the basket, you can use your racks in 2 different heights. In addition, you can place long forks, knives and spoons on these racks laterally, so that they do not block the revolution of propeller.



Foldable racks on the upper basket are designed in order to let you place big items easier such as pots, pans, etc. If requested, each part can be folded separately, or all of them can be folded and larger spaces can be obtained. You can use foldable racks by raising them upwards, or by folding down.

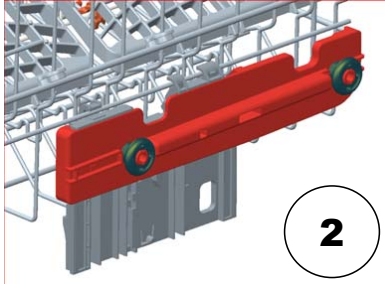
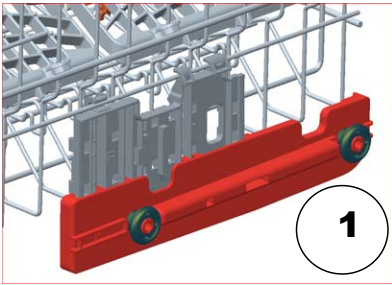
### **Top basket height adjustment while it is full**



Basket height adjustment mechanism on the top basket of your machine is designed to let you adjust the height of your top basket upwards or downwards, without removing it from your machine when it is full, and create large spaces at the top or bottom area of your machine as needed. Basket of your machine is set to upper position in factory settings.

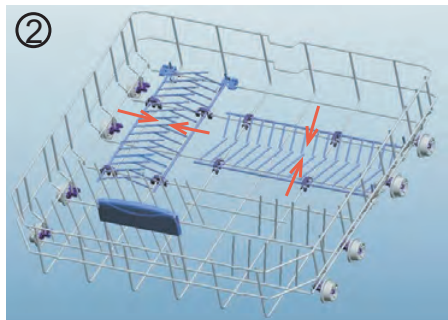
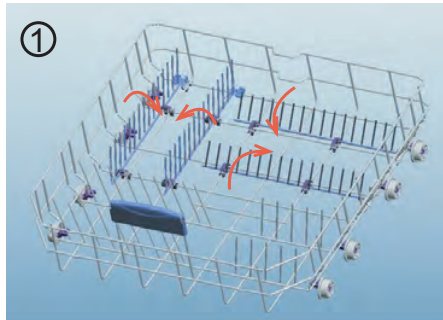
In order to raise your basket, hold it from both sides and pull it upwards. In order to lower it, hold it from both sides again, and leave it.

In loaded basket adjustment mechanism, make sure that both sides are in the same position (up or down).



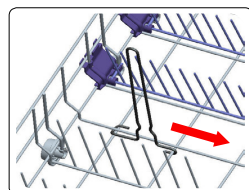
### **Lower Basket Folding Racks**

Folding racks consisting of four parts that are located on the lower basket of your machine are designed in order to let you place big items easier such as pots, pans, etc. If requested, each part can be folded separately, or all of them can be folded and larger spaces can be obtained. You can use folding racks by raising them upwards, or by folding.



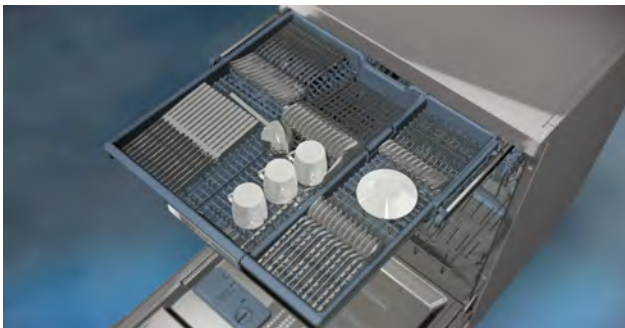
### **Bottle Rack**

Bottle rack is designed to let you wash items with large openings and higher items easier. You can pull out bottle rack in the direction of the arrow as shown on the picture when you do not use it.

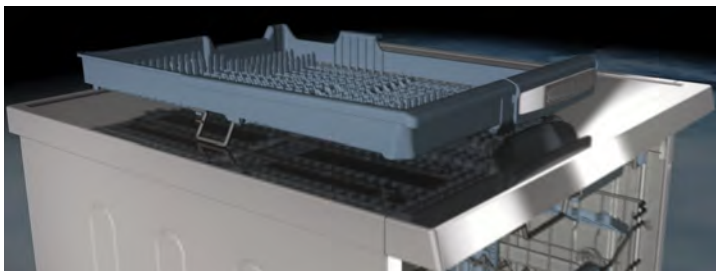


### ***Upper Cutlery Basket***

The upper cutlery basket is designed for you to place forks, spoons and knives, long dippers and small items.



Because it can easily be taken out of the machine, it allows your dishes to be taken out of the machine along with the basket after washing.



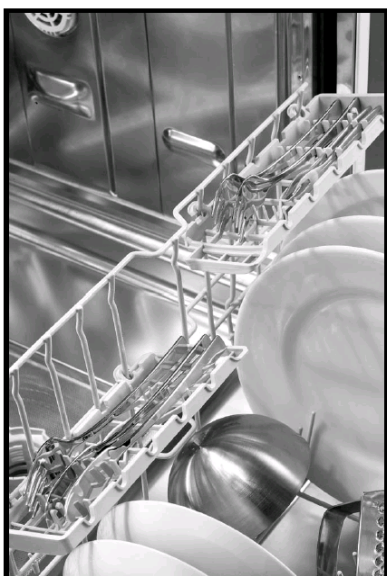
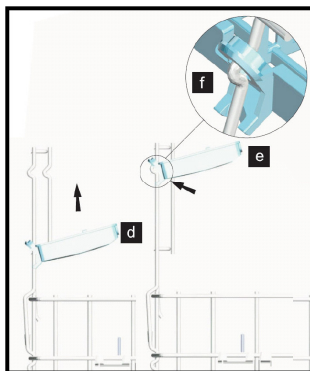
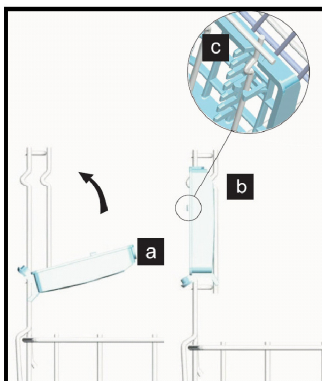
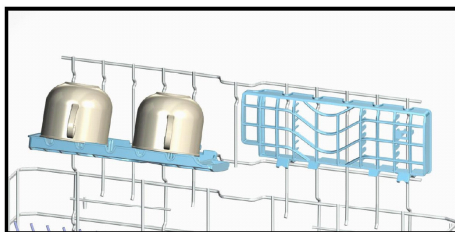
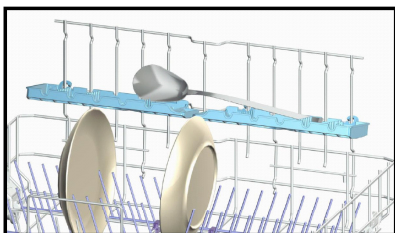
The Upper Cutlery Basket is composed of two pieces; if you need to make space for the dishes in the upper basket, you can take out the left or right part of the upper cutlery basket in order to obtain more space.



**Warning:** Knives and other sharp objects must be placed horizontally in the cutlery basket.

### Multi-functional Rack System

Multi-functional rack system is located in the bottom basket of your machine. You can easily wash spare glasses or dishes like long ladles, bread knife with the help of this accessory.

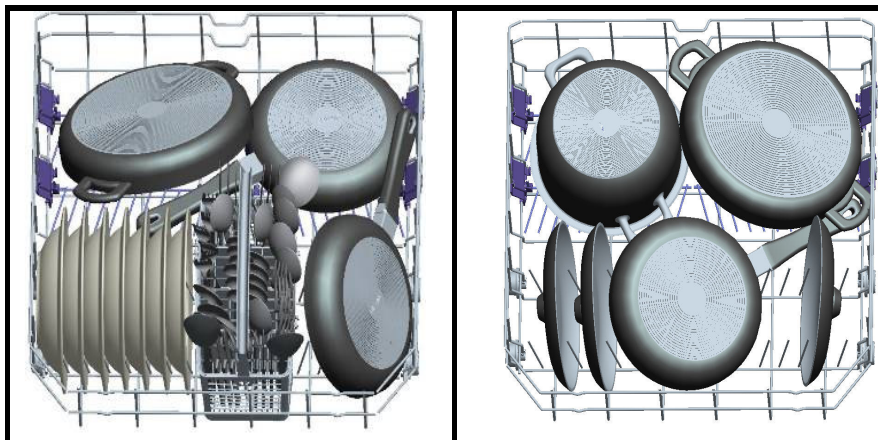


Please fold the racks by putting them from **a** position to **b** position, in order to put the racks in the multi-functional rack system into the closed position. Please make sure that claws on the rack are fit on the cord **c**. You can put the rack into the open position by following the steps in a reverse manner.

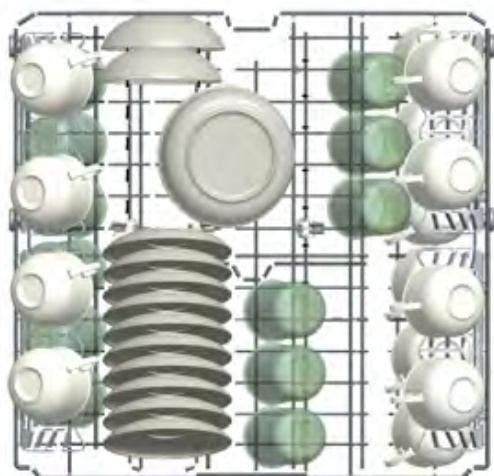
Your racks in the multi-purpose rack system has two positions: low position **d** and upper position **e**. This way you can attain larger space at the bottom part of your machine. Please put your racks into **e** position from **d** position to **e**, in order to put your racks to the upper position. Please fix the racks to their places **f** on the cord. Please make sure that the prop does not contact the dishes you put on the racks.

## ***Alternative basket loads***

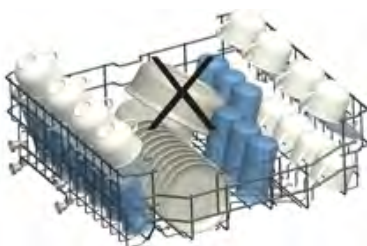
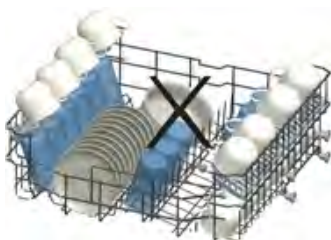
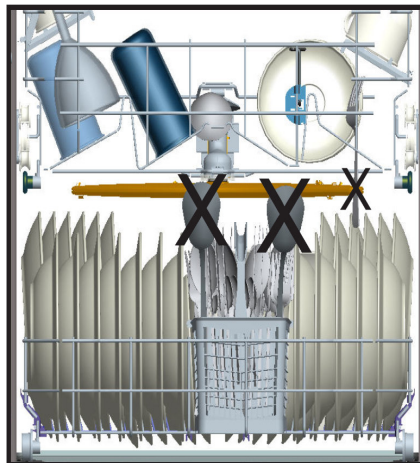
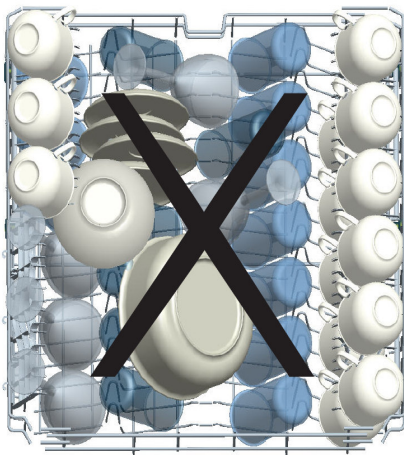
### ***Lower Basket***



### ***Top basket***



### ***Faulty loads***



### ***Important Note for Test Laboratories***

For detailed information on performance tests, please contact following address: "dishwasher@standardtest.info". In your email, please provide the model name and serial number (20 digits) which you can find on the appliance door.

## PROGRAM DESCRIPTIONS

Programme	Duration (min)	Description
Prewash	15	To rinse heavily soiled dishes before a wash programme.
Jetwash 14'	14	Fast programme intended for recently used dishes which are lightly soiled. Suitable for 4 place settings.
Quick 30'	30	Quick wash programme for lightly soiled dishes.
Eco	270	Standard programme for dishes which are used daily but are not heavily soiled.
Daily 60°C	99	For dishes which are used daily but are not heavily soiled.
Dual Prowash	113	For both lightly soiled delicate glassware and heavily soiled crockery at the same time.
Super 50'	50	A faster programme for dishes which are used daily but are not heavily soiled.
Auto Delicate	79-91	Automatic programme for delicate dishes which are not heavily soiled.
Auto Normal	102-122	Automatic programme for dishes which are not heavily soiled.
Auto Intensive	107-179	Automatic programme for heavily soiled dishes.

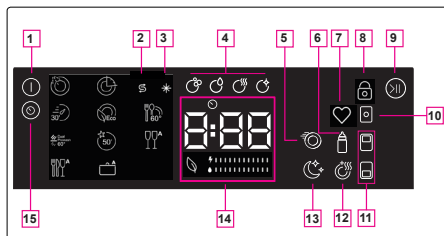


**NOTE:** PROGRAMME DURATION MAY CHANGE ACCORDING TO THE AMOUNT OF DISHES, TAP WATER, AMBIENT TEMPERATURE AND SELECTED ADDITIONAL FUNCTIONS.

- Only use powder detergent in short programmes.
- Short programmes do not include a drying step.
- To assist drying, we recommend partially opening the door after the programme has finished.

## Selection of Program and Starting of the Machine

### THE CONTROL PANEL



1. On/Off button
2. Salt Level Warning Indicator
3. Rinse Aid Level Warning Indicator
4. Washing Cycle Progress Indicators
  - a- Washing Cycle symbol
  - b- Rinse Cycle symbol
  - c- Drying Cycle symbol
  - d- End Cycle symbol
5. Extra Fast Indicator
6. Extra Hygiene Indicator
7. Favorite Indicator
8. Child Lock Indicator
9. Start/Pause button
10. Tablet Indicator
11. Half Load Indicator
12. Extra Drying Indicator
13. Extra Silent Indicator
14. Display Information Line
15. Delay Indicator

#### 1. Starting the Machine and Selecting a Programme

- a. Press the Power On/Off button.
- b. Select the desired program by touching the icons located on the left side of the display.
- c. Press Start/Pause button to start the program.

#### 2. Salt Level Warning Indicator

When there is insufficient softening salt, the Salt Lack Warning Symbol will illuminate to indicate the salt chamber needs filling.

#### 3. Rinse Aid Level Warning Indicator

When there is insufficient rinse aid, the Rinse Aid Lack Warning symbol will illuminate to indicate the rinse aid chamber needs filling.

#### 4. Washing Cycle Progress Indicators

The display will show the symbols corresponding to the status of the programme in operation. While the Drying symbol is on, the machine will remain silent with respect to the programme you have selected for 15 to 100 minutes.

#### 5. Extra Fast Indicator

Select the Extra Fast function to decrease the duration of a programme, providing more economical water usage. The Extra Fast Indicator will illuminate.

This option can be selected for Dual Wash, Eco and Daily programmes.

#### 6. Extra Hygiene Indicator

Select the Extra Hygiene function to increase the wash temperature, for a maximum hygiene washing operation. The Extra Hygiene Indicator will illuminate.

This option can be selected for all programmes except for Prewash, Mini 14' and Quick 30' programmes.

#### 7. Favorite Indicator

It allows you to enter the menu that includes 5 favourite programmes you have previously saved. To save a selected programme as favourite, press the icon for 3 seconds.

#### 8. Child Lock Indicator

After starting a programme, press Child Lock icon for 3 seconds. The display will blink for 2 seconds. After this, the Child Lock will activate, 'CL' will show on the display. While the Child Lock is active, all buttons will deactivate.

#### 9. Start/Pause button

Press the Start/Pause button to start the selected programme. For program cancellation, press the start pause for 3 sec.

#### 10. Tablet Indicator

Select the Tablet Detergent function when using a combined detergent that contains salt, rinse aid or other extras. The Tablet Detergent Indicator will remain on for as long as it is selected. This option will change washing temperature and time.

### **11. Half Load Indicator**

Select the Half Load function to choose which area of the dishwasher contains dishes to be washed. You can select both baskets, the upper basket only, or the lower basket only. Press the button until the symbol corresponding to the basket containing the dishes to be washed illuminates. The Half Load Indicator will illuminate while this function is in operation. Dishes placed in other areas will not be washed.

### **12. Extra Drying Indicator**

Select the Extra Drying function to add extra drying steps to a programme in order to obtain drier dishes. The Extra Drying Indicator will illuminate. This option increases water temperature of the final rinse step and drying step duration up to 10 minutes.

### **13. Extra Silent Indicator**

Select the Extra Silent function for a more sensitive and silent washing operation. The Extra Silent Indicator will illuminate. This option reduces the sound pressure level of the washing.

### **14. Display Information Line**

The hour '0:00' will show on the Display Information Line and the Delay symbol will flash. The display will show the duration of the selected programme and delay time.

Besides, the display information line includes the LED indicators located below the digits. These indicators are used to show the energy and water consumption performance of the selected programme of the machine.

### **15. Delay Indicator**

After selecting the programme, press the delay icon to adjust the delay time. Then, press the Start/Pause button to start the delay timer. The Delay symbol will remain illuminated during this period.

## MAINTENANCE AND CLEANING

***Cleaning the machine in regular intervals prolongs the machine's service life.***

***Oil and lime may accumulate in the machine's washing section. In case of such accumulation;***

-Fill the detergent compartment without loading any dishes into the machine, select a programme that runs at high temperature, and start the machine. In case of insufficiency, use special cleansing material available in the market. (Cleansing material produced special to machines by detergent producers.)

***Cleaning the seals in the machine door,***

-To clean any accumulated residues in the door seals, wipe the seals regularly by using a dampened cloth.

***Cleaning the machine,***

Clean the filters and spray arms at least once a week.

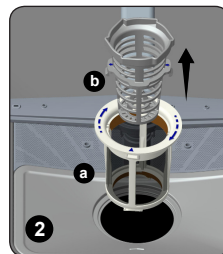
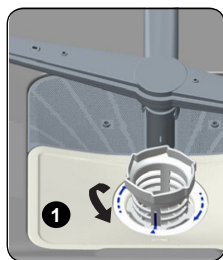
Unplug your machine and turn off its tap before starting the cleaning.

Do not use hard materials when cleaning your machine. Wipe with a fine cleaning material and a dampened cloth.

### ***Filters***

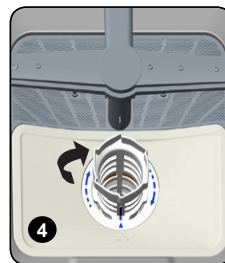
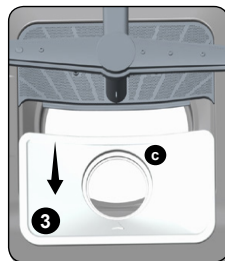
Check if any food wastes have remained on the coarse and fine filters. If any food wastes are left, remove the filters and clean them thoroughly under the water tap.

- a.** Micro Filter
- b.** Coarse Filter
- c.** Metal/Plastic Filter

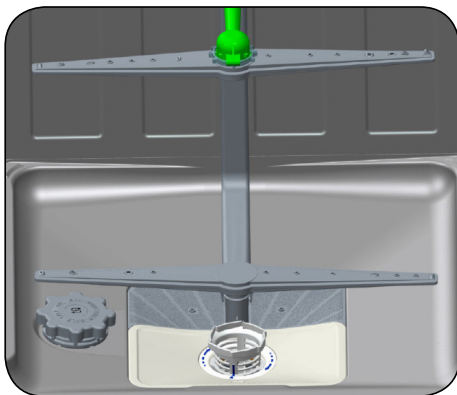


To remove and clean the filter combination, turn it counter clockwise and take it out by lifting upwards. **1**

Pull and remove the metal/plastic filter. **3** Then pull the coarse filter out of the micro filter. **2** Rinse it with lots of water under the tap. Refit the metal/plastic filter. Insert the coarse filter into the micro filter in a way that the marks will correspond to one another. Attach micro filter into the metal/plastic filter and turn to the direction of arrow and it is locked when the arrow on micro filter can be seen from across. **4**



- Never use your dishwasher without any filter.
- Incorrect fitting of the filter will reduce the washing effectiveness.
- Clean filters are very important in terms of the proper running of the machine.



### ***Spray arms***

Check whether or not the holes for the upper and lower spray arms are clogged. If there is any clogging, remove the spray arms and clean them under water.

You can remove the lower spray arm by pulling it upwards, while the upper spray arm nut can be removed by turning the nut to the left.

Be sure that the nut is perfectly tightened when refitting the upper spray arm.

### ***Hose filter***

Water is prevented by the inlet hose filter so as to avoid any damage to your machine because of any contamination (sand, clay, rust etc.) that might be occasionally carried in through the mains water supply or the indoor plumbing, and to forestall such complaints as yellowing and formation of deposits after washing. Check the filter and the hose from time to time and clean them if necessary. To clean the filter, first turn off your tap and then remove the hose. After removing the filter from the hose, clean it under the tap. Insert the cleaned filter back into its place inside the hose. Refit the hose.

## FAILURE CODES AND WHAT TO DO IN CASE OF FAILURE

ERROR CODE	ERROR DESCRIPTION	CONTROL
F5	Inadequate water supply	<ul style="list-style-type: none"> <li>• Make sure the water input tap is totally open and that there is no water cut.</li> <li>• Close the water input tap, separate the water input hose from the tap and clean the filter at the connection end of the hose.</li> <li>• Restart your machine, contact the service if the error resumes.</li> </ul>
F3	Error of continuous water input	<ul style="list-style-type: none"> <li>• Close the tap.</li> <li>• Contact the service.</li> </ul>
F2	The waste water in the machine cannot be discharged.	<ul style="list-style-type: none"> <li>• Water discharge hose is clogged.</li> <li>• The filters of your machine might be clogged.</li> <li>• Power off-on your machine and active the program cancellation command.</li> <li>• If the error continues, contact the service.</li> </ul>
F8	Heater error	Contact the service.
F1	Alarm is active against water overflow	<ul style="list-style-type: none"> <li>• Power off your machine and close the tap.</li> <li>• Contact the service.</li> </ul>
FE	Faulty electronic card	Contact the service.
F7	Overheating error (temperature in the machine is too high)	Contact the service.
F9	Divisor position error	Contact the service.
F6	Faulty heater sensor	Contact the service.

***If one of program monitor lights is on and start/Pause light is on and off,***

Your machine's door is open, shut the door.

***If the programme won't start***

- Check if the plug is connected.
- Check your indoor fuses.
- Be sure that the water inlet tap is turned on.
- Be sure that you have closed the machine door.
- Be sure that you switched off the machine by pressing the Power On / Off button.
- Be sure that the water inlet filter and the machine filters are not clogged.

***If the control lamps won't go out after a wash operation***

The Power On/Off button is released yet.

***If detergent residues are left in the detergent compartment***

Detergent has been added when the detergent compartment was wet.

***If water is left inside the machine at the end of the programme***

- The water drain hose is clogged or twisted.
- The filters are clogged.
- The programme is not finished yet.

***If the machine stops during a wash operation***

- Power failure.
- Water inlet failure.
- Program can be on standby mode.

***If shaking and hitting noises are heard during a wash operation***

- Dishes placed incorrectly.
- Spray arm hitting the dishes.

***If there are partial food wastes left on the dishes***

- Dishes placed incorrectly into the machine, sprayed water did not reach related places.
- Basket overly loaded.
- Dishes leaning against one another.
- Very small amount of detergent added.
- An unsuitable, rather weak wash programme selected.
- Spray arm clogged with food wastes.
- Filters clogged.
- Filters incorrectly fitted.
- Water drain pump clogged.

***If there are whitish stains on the dishes***

- A very small amount of detergent is being used.
- Rinse aid dosage setting at a very low level.
- No special salt is being used despite the high degree of water hardness.
- Water softener system setting is at a very low level.
- Salt compartment cap not closed well.

***If the dishes won't dry up***

- A programme without a dry operation selected.
- Rinse aid dosage set too low
- Dishes unloaded too fast.

***If there are rust stains on the dishes***

- Stainless-steel quality of the dishes washed is insufficient.
- High rate of salt in the wash water.
- Salt compartment cap not closed well.
- Too much salt spilt into the sides and into the machine while filling it with salt.
- Unhealthy mains grounding.

**Call an authorised service if the problem still persists after the controls or in case of any malfunction not described above.**

<b><i>PRACTICAL AND USEFUL INFORMATION</i></b>
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**1. Whenever you will not be operating your machine**

- Unplug the machine and then turn the water off.
- Leave the door slightly ajar in order to prevent the formation of unpleasant smells.
- Keep the machine interior clean.

**2. Eliminating water droplets**

- Wash the dishes with the intensive programme.
- Take all of the metal containers in the machine out.
- Do not add detergent.

**3. If you properly place your dishes into the machine, you will be using it in the best way in terms of energy consumption, washing and drying performance.**

**4. Clean all rough waste before you place dirty dishes to the machine.**

**5. Operate the machine after it is completely full.**

**6. Use pre-washing program only when necessary.**

**7. Observe program information and average consumption values table when selecting a program.**

**8. Since the machine will reach high temperatures, it should not be mounted near refrigerator.**

**9. If the appliance is located in a place where the risk of freezing exists, you must completely drain the water that has remained in the machine. Turn off the water tap, disconnect the water inlet hose from the tap and allow the interior water to drain.**

## THE PRODUCT FICHE (Spect)

Supplier's trade mark	GRAM
Supplier's model	OM 6640-90 RT/X
Capacity of dishwasher	15
The energy efficiency class	A ++
Annual energy consumption in kWh per year (AEC) ( 280 Cycle ) *	241
Energy consumption (E <sub>c</sub> ) (kWh per cycle)	0,85
Off mode power consumption (W) (P <sub>o</sub> )	0,50
Left on mode power consumption (W) (P <sub>i</sub> )	1,00
Annual water consumption in litres per year (AWC) ( 280 Cycle ) **	2520
Drying efficiency class ***	A
Standard programme name ****	Eco
Programme time for standard cycle ( min)	270
Noise dB(A)	39
Integrated	Yes

\* Energy consumption **241** kwh per year, based on 280 standard cleaning cycles using cold water fill and the consumption of low power modes. Actual energy consumption will depend on how the appliance is used.

\*\* Water consumption **2520** liters per year based on 280 standard cleaning cycles. Actual water consumption will depend on how appliance is used.

\*\*\*Drying efficiency class **A** on a scale from G(least efficient) to A (most efficient).

\*\*\*\* The "**Eco**" is the standard cleaning cycle to which the information in the label and the fiche relates. This programme is suitable to clean normally soiled tableware and it is the most efficient programme in terms of combined energy and water consumption.

**NO:**

**Gram A/S**

Tel.: 22 07 26 30

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**SE:**

**Gram A/S**

Tel.: 040 38 08 40

[www.gram.se](http://www.gram.se)

**FI:**

**Gram A/S**

Tel.: 020 7756 350

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Gram A/S . Gejlhavegård 2B . DK-6000 Kolding . +45 73 20 10 00 . [www.gram.dk](http://www.gram.dk)



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