

Winterhalter GS 600-Serie
GS 600 Series
Gamme GS 600

winterhalter



Betriebsanleitung
Operating Instructions
Notice d'utilisation



**Sehr geehrte Damen und Herren,
sehr geehrte Kunden!**

»Vertrauen schenken« – »Vertrauen haben«: Ein Unternehmen zu führen ohne Vertrauen in die eigenen Talente und Fertigkeiten, in die Beziehungen zu Kunden und Lieferanten, ist für uns undenkbar.

Diese Grundhaltung erlaubt uns Spitzenleistungen. Wir stellen uns täglich den Herausforderungen, »tüteln« an Technik und Design, und entwickeln neue Konzepte, um unseren Kunden Sicherheit und Erfolg zu garantieren.

Ich danke Ihnen für Ihr Vertrauen, das Sie uns mit dem Kauf dieser Winterhalter Spülmaschine schenken.

Mit den besten Grüßen und Wünschen für die Zukunft

Ihr


Jürgen Winterhalter

Dear Customer,

“Giving trust” – “having trust”: running a company without having faith in your own abilities and skills, and in the relationship to customer and supplier is unthinkable for us. This guiding company principle allows us to give our best. We live up to the challenges on a daily basis, “tinkering” with technology and design and developing new concepts that guarantee our customers’ safety and success.

I thank you for the trust that you have placed in us by buying this Winterhalter product.

With kind regards and best wishes for the future

Yours sincerely


Jürgen Winterhalter

**Mesdames, Messieurs,
Chers clients,**

«Faire confiance et gagner la confiance», telle est notre devise car il est impossible de conduire une entreprise sans faire confiance en nos ressources créatives, aux relations avec la clientèle et les fournisseurs.

Ce principe nous conduit à des réalisations de pointe et, jour après jour, nous nous assignons de nouveaux défis au niveau technique et pour la conception, que nous maîtrisons par notre persévérance, dans l’intérêt de la sécurité et du succès du travail de nos clients.

Je vous remercie de la confiance que vous placez en nous et que vous avez illustrée en faisant l’acquisition de ce lave-ustensiles Winterhalter.

Je vous souhaite un grand succès dans vos activités.

Toujours à votre service


Jürgen Winterhalter

Operating instructions

for Winterhalter Gastronom utensil washer GS 640, GS 650, GS 660

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1 Intended use

- The **Winterhalter Gastronom utensil washers GS 640, GS 650 and GS 660** may only be used for washing items and utensils from the catering industry and related trades (butcher shops, bakeries).
- The machine may only be used for this purpose and in accordance with the operating instructions.
- The utensil washer is a technical implement for commercial use and is not intended for domestic applications.
- Any change in design or use of the utensil washer carried out without the written permission of Winterhalter Gastronom GmbH leads to the guarantee and product liability becoming null and void. If damage is caused to the utensil washer due to failure to observe the instructions given in this manual, no claims under guarantee can be made to Winterhalter Gastronom GmbH.

2 Safety instructions

- Make sure that you have read and understood the operating instructions before you start to use the utensil washer. The operator has receive instruction in the operation and functions of the machine from a Winterhalter customer service representative. Only operate the utensil washer in the manner described in this manual.
- 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 initial supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Do not modify, extend or convert the machine without the manufacturer's approval.
- In the event of faults which are not due to the customer's water or electricity supply, contact the Winterhalter customer services department. Switch off customer's main switch. Only then is the utensil washer safe.
- In the event of a fault of which the cause is unknown, do not switch the utensil washer on again until the cause has been established. If necessary, contact the Winterhalter customer service.
- The water in the utensil washer is not drinking water.

The following symbols are used:



Warning: Failure to observe these instructions can lead to danger to life, e.g. from electrical equipment.



Attention: Failure to observe these instructions can lead to damage to equipment.



- The utensil washer only may be used after the operating instructions have been read and understood. Ensure that the operator has received instruction in the operation and functions from a Winterhalter customer service representative.
- Only operate the utensil washer in the manner described in these operating instructions.
- Do not modify, extend or convert the machine without the manufacturer's approval.
- In the event of danger or faults, switch the utensil washer off immediately. Switch off customer's main switch. Only then is the utensil washer safe.
- Do not open any machine casings or machine parts if tools are necessary to do so.
- Work on the electrical equipment is only to be carried out by specialist personnel. First disconnect the utensil washer from the mains.
- The water in the utensil washer is not drinking water. Do not use it to prepare food or drink it.
- In the event of faults which are not due to the customer's water or electricity supply, contact the Winterhalter customer service department.
- In the event of a fault of which the cause is unknown, do not switch the utensil washer on again until the cause has been established. If necessary, contact the Winterhalter customer service department.



- Only use detergent and rinse additive which are suitable for industrial utensil washers. We recommend the products developed by Winterhalter Gastronom. These are specially developed to suit Winterhalter Gastronom utensil washers. All quantities given refer to Winterhalter Gastronom products. Observe danger instructions printed on packaging.
- During daily cleaning, make sure that no rusting foreign bodies remain inside the utensil washer. This can cause the interior to rust. The rust particles may come from washed non-stainless items, cleaning aids, damaged wire baskets or from supply lines which have not been rust proofed.
- Leave the door open until the next time you put the machine into operation, so that the inside of the machine can dry out. This is important for long-lasting protection against corrosion, even with high grade stainless steel.
- Do not sit or stand on the open door.
- Protect the utensil washer against frost. Systems carrying water can be damaged if they freeze.
- Do not use normal washing-up liquid. This leads to large amounts of foam building up in the utensil washer.



- **The utensil washer is hoseproof (IP X5). However, do not spray the outside with a high pressure or steam jet cleaner.**



- Check the customer's required FI-residual current operated device for faults regularly according to the regulations by pressing the test button.
- In addition to daily cleaning, we recommend that you have the utensil washer serviced at least twice a year by a Winterhalter customer service engineer.

3 Before using the machine

Before you use the machine in your work, it must be connected on your premises by trained specialists in conformance with locally effective regulations and then set in operation by the Winterhalter customer service.



Do not expose the machine to freezing temperatures. Freezing can damage running water systems damaged.

3.1 Installation and connection



DANGER! Danger of death due to live components!
Installation and connection of the washer to the customer's water inlet, waste water drainage and electricity connections are to be carried out in accordance with national and local criteria by qualified engineers.

Completeness check:

After unpacking the machine, first check the delivery against the packing slip to see that it is complete and has suffered no damage during transportation. Inform the haulage company, the insurance company and the manufacturer immediately of any damages.

Setting up and aligning the machine

Before starting installation, use a spirit level to check that the machine is totally horizontal. Adjust the machine's feet to compensate for any unevenness of the floor.

Sanitary installations:



Please observe carefully the information in the attached connection diagram!
Make sure that the water pressure and flow capacity demanded by the connection diagram are present so that the machine will function properly.

- Install an easily accessible **main shutoff valve** in the water supply line near the machine. It may not be located behind the machine.
- The machine is DVGW and WRC approved, or designed and built according to DVGW and WRC guidelines. It can be connected to the fresh water supply line without any safety device in between.
- Use the hose and the fine filter in the machine to connect it. The fine filter keeps particles from the water supply line from getting into the machine and causing extraneous rust to form on the cutlery or the machine itself.
- If water hardness is greater than 6°d, the installation of a water softener is recommended. Now, the water inlet temperature is max. 50°C.
- The machine is equipped with a drain pump. The maximum draining capacity is found on the connection diagram.

Electrical installation:



DANGER! Danger of death due to live components!

Have the electric installation of the washer and the auxiliary devices belonging to it carried out only by a specialist firm of electricians approved by the responsible electricity board in accordance with the norms.

Observe the technical connection regulations.

Before commissioning the washer, check that all electrical protection systems are working correctly.

Caution! The machine is only to be considered free from voltage when the mains disconnecting switch (mains switch) provided by the customer is switched off.

The electrician must take note of the following:

- The total connected load of the machine is stated on the rating plate.
- Safeguard the electrical connection of the machine with delayed-action fuses or automatic fuses in conformance with the total connected load (see rating plate). Do not use the machine to safeguard any other electric power consumers.
- As required by regulations, install a main or on-off switch, as well as an FI safety switch in the electrical supply line. All poles of this switch must respond when it is switched off and it must be at least 3 mm between contacts. It must be installed near the machine and be easily accessible.
- Connect the machine to your potential equalization system. The screw for this connection is located in the machine's base.
If you set up the machine on a supporting stand, the potential equalization system must be put between the machine and the stand.

Connecting the machine

Only the manufacturer, its customer service representative or a similarly qualified person may make changes or replacements.

Connecting cable

The connecting cable may only be changed or replaced by the manufacturer, its customer service representative or a similarly qualified person. Use an H07 RN-F type cable or equivalent.

Phase sequence of main power cable

Mains	1/N/~	2/-/~	3/N/~	3/-/~
No. of leads	3	3	5	4
PE	green-yellow	green-yellow	green-yellow	green-yellow
N	blue	-	blue	-
L1	brown	brown	grey	brown
L2	-	blue	brown	grey
L3	-	-	black	black

Final work:

The machine must be entirely connected to the electrical power mains and the fresh water supply and waste water drain system. The electrical safety system must be tested and fully functional.

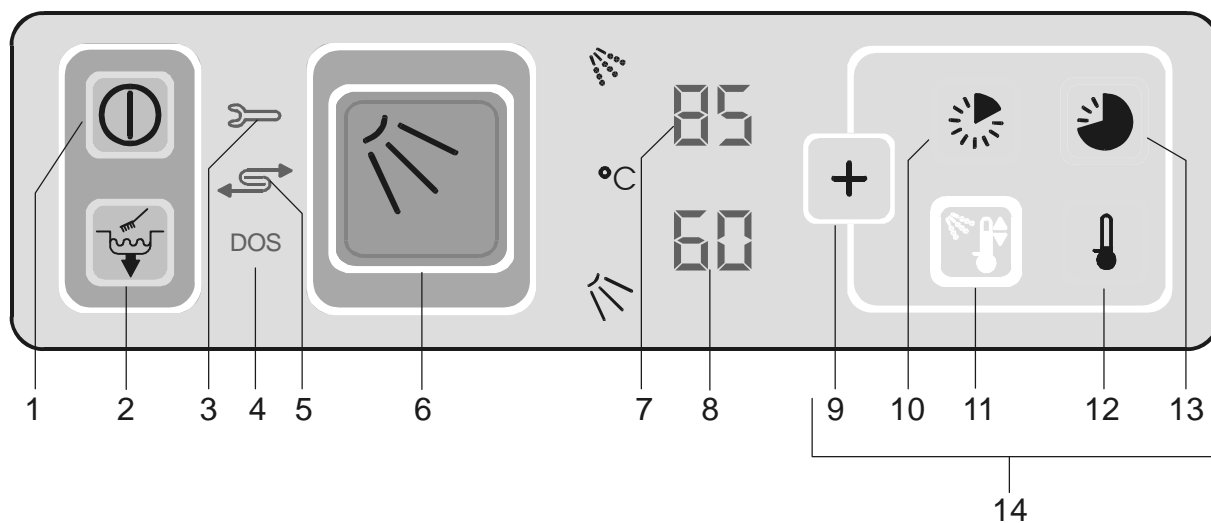
A Winterhalter customer service technical performs the initial start-up. In the process, the operator of the machine is instructed in how the machine works.

3.2 Commissioning

After the machine has been connected to your supply lines according to regulations, contact the Winterhalter agent responsible for your locality in order to perform the initial start-up and be instructed in how to run the machine.

4 Operating panel

The operating panel is situated on the bottom casing.



- 1 On/Off switch
- 2 Tank drainage / Self cleaning
- 3 Control lamp for fault
- 4 Control lamp for lack of detergent or rinse additive (optional)
- 5 Control lamp for connected water treatment (optional)
- 6 Programme button normal programme
- 7 Temperature display - Boiler
- 8 Temperature display - Tank
- 9 Activates special programmes (10-13)
- 10 Short programme
- 11 Not allocated
- 12 Reduced temperature rinse (optional)
- 13 Intensive programme
- 14 Button area for special programmes

5 Functions of the utensil washer

After the machine is switched on, the boiler and tank are filled and heated up to operating temperature. The programme button (6) is lit red during the heating up phase.

As soon as the pre-set target temperatures (tank: approx. 60°C, boiler : approx. 85°C) have been reached, the machine is ready for operation. The programme button (6) is now lit green.

The machine is operated with fully automatic programmes consisting of the program steps washing, dripping off and rinsing.

The rinse additive is dosed by a built-in dosing device. With GS 660, the container for the rinse additive can be stored inside of the machine. With the other machines it is stored separately.

Detergent must be added by hand (in the form of powder) or by means of a built-in or external dosing pump (in the case of liquid detergent), depending on the equipment of the machine. With GS 660 the container for the detergent can be stored inside of the machine. With the other machines, it is stored separately.

Washing: The circulating pump conveys the wash water out of the tank via the wash arms and nozzles onto the wash items. The wash arms move thereby side to side, thus guaranteeing powerful and efficient cleaning of the wash items. During circulation the wash water is continuously circulated through a filtering system and the patented Mediamat Cyclo (floating particle separator).

Dripping off: There is a short pause after washing to allow the wash water to drip off the washing items.

Rinsing: During the last programme step, the cleaned items are rinsed with fresh, hot water to remove residual water and to warm up the wash items for optimum drying outside of the machine. In addition, the rinse water refreshes the wash water.

6 Wash programmes

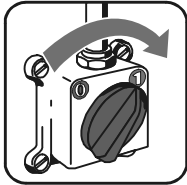
The utensil washer can be operated with various wash programmes. The respective wash programme is selected by means of the control panel.

Programme	Description
Normal programme (6)	Normally soiled items Medium drying time
Short programme (10)	Lightly soiled items Short/no drying time
Intensive programme (13)	Heavily soiled items Long drying time
Normal programme with cold water pre-rinse (optional) (12)	Items with protein-containing soiling Coagulation is prevented by rinsing with cold water.
Tank drainage / self-cleaning (2)	Cleaning the machine: <ul style="list-style-type: none">• rinse water circulates in the rinsing space• rinse water is pumped out• rinsing space is rinsed out with fresh, hot water• used fresh water is pumped out. When the self-cleaning program is finished, the machine automatically switches off.

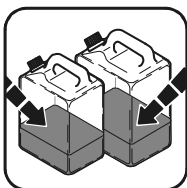
7 Before washing



Turn water stop valve to open position.



Switch on the mains disconnecting device (mains switch) provided by the customer.

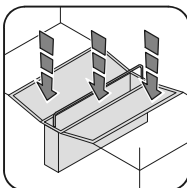


Check level in rinse additive container and detergent container (only with automatic detergent dosage).

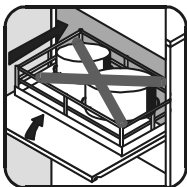
Replace or fill up empty containers.



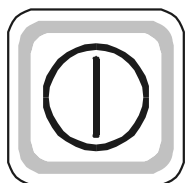
Observe safety instructions on packaging.




Check whether the flat filters, the basket filter and the filter in the floor of the tank (drainage filter) are installed.




Do not load wash items at this stage.
Close door.



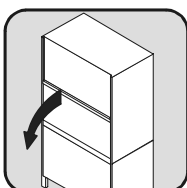
Press On/Off switch (1), heating up phase begins.

Programme button  is lit red: the tank is filled in stages over the boiler and heated up.

Programme button  is lit green: Filling and heating up phase completed.



Door must remain closed during filling / heating up.

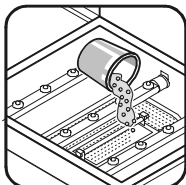


Open door.

● Detergent dosage

If the utensil washer is fitted with a built-in or external detergent dosing pump, there is no need for manual dosing. In this case, detergent dosing is carried out automatically by the utensil washer. With an external detergent dosing pump, please observe the operating instructions supplied with it.

Manual detergent pre-dosage:



Pour detergent powder into basket filter with cup.



We recommend Winterhalter Gastronom detergent powder. Observe the recommended dosage printed on the instruction label.



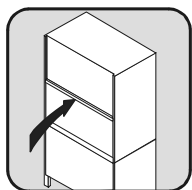
Observe safety instructions on the detergent packaging.

Pre-dosage table when using the Winterhalter Gastronom Detergent P 65:

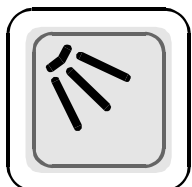
	Tank volume	Dosage quantity (*)	Winterhalter measuring cup
GS 640, GS 650	85 l	255 g	1
GS 660	125 l	375 g	1 1/2

(*) The need for greater quantities of detergent must be accounted for in case of heavily soiled wash items or e.g. extreme water hardness.

Other detergents must be dosed according to the information stated on the detergent packaging.



Close door.



Start normal programme. For this, *press* button (6). Detergent powder is mixed with wash water.

The utensil washer is now ready for operation.

Manual addition of detergent:



Manual addition of the detergent powder must be repeated after approx. every 5 wash cycles. When manually adding detergent, add the quantity of detergent powder according to the table into the basket filter. Then start the wash programme.

Table for manual addition when using the Winterhalter Gastronom **Detergent P 65:**

	Fresh water rinsing	Dosage quantity (*)	Winterhalter measuring cup
GS 640, GS 650	approx. 5 l/basket	75 g	1/2
GS 660	approx. 7.5 l/basket	110 g	3/4

(*)The need for greater quantities of detergent must be accounted for in case of heavily soiled wash items or e.g. extreme water hardness.

Other detergents must be dosed according to the information stated on the detergent packaging.

● **Changing the detergent type (liquid product)**

If changing to a different **detergent type** (even one by the same manufacturer), the suction and pressure hoses must be rinsed with fresh water before connecting the new detergent container. Otherwise, the mixing of different types of detergent will cause crystallisation, which may result in a breakdown of the dosing pump.

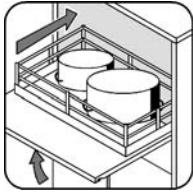
Failure to observe this rule will lead to the loss of guarantee and product liability claims vis-à-vis Winterhalter Gastronom GmbH.

Procedure:

- Remove the suction stick from the empty detergent container and place it in a container filled with fresh water.
- Trigger several wash programmes until fresh water is visibly pumped into the machine over the dosage pump. The suction and pressure hoses are rinsed thereby.
- Insert the suction stick in the new detergent container. Operate the machine as usual.

8 Washing

Before the washing items are loaded into the machine, they should be scraped clean of the largest leftovers and scraps: pour off leftover gravy, soak dried on leftovers. Do not use steel sponges to do this, because the machine could be contaminated with rust thereby.

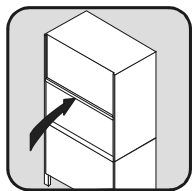


Wash items such as buckets, pots, cauldrons, ham roasting dishes etc. must be placed into the utensil rack with the opening facing downwards. The empty intermediate spaces can be filled with small utensils such as ladles etc. The wash items should however not be laid on top of each other because spray shadows may be created and thus possibly affect the washing result.

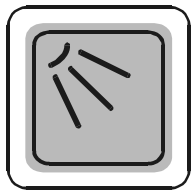
When washing baking sheets, put these into the insert with forward slant. Ensure that the soiled sides face downwards.

Use the plastic small parts basket to wash cutlery and other small parts. After it is filled it is mounted on the utensil basket. Sort knives and other sharp objects into the upright cutlery basket with the handles facing upward. Long, sharp utensils must be laid in the wash basket or be washed by hand.

Light parts made of e.g. plastic can easily slip or turn over during washing. Put a plastic basket on these light parts if necessary.



Close door.

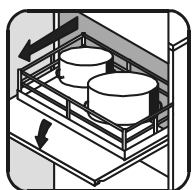


Press programme button (6). The programme button is lit **blue** while the programme is running.

The programme button (6) is flashing **green** when the programme has ended and the door has not yet been opened. As soon as the door of the machine is opened, the flashing stops and the programme button 6 switches to a continuous green light.

The flashing programme button (6) indicates that the wash programme is complete and the door has not yet been opened.

If the flashing disturbs you, the machine control system can be adjusted by an authorised service engineer to prevent key 6 from emitting the flashing green light.



Open door.

Pull out wash basket.

Remove items and check for cleanliness and allow to air dry outside of the machine.




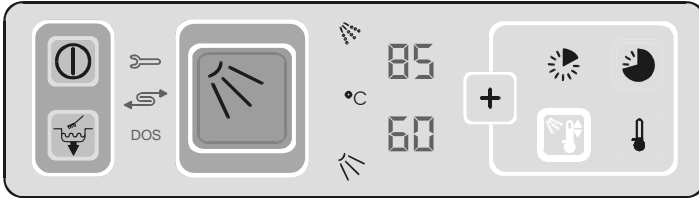
- Check basket filter for blockages from time to time and clean if necessary. The basket filter can be removed without having to drain the tank first.
- Check tank water for soiling. If necessary, drain and re-fill machine.
- During wash pauses the door should remain closed to avoid unnecessary losses of heat and restriction of the freedom of movement around the machine.

9 Changing from normal programme to special programmes

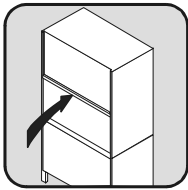


Before changing from normal programme to special programmes (short programme, intensive programme or normal programme with reduced rinse temperature), the button area with the special programmes must first be activated. this also displays the tank and boiler temperatures (however not during the programme).

To do this *press* function button  .



The button area with the special programmes is activated. The tank and boiler temperatures are displayed.



Close door

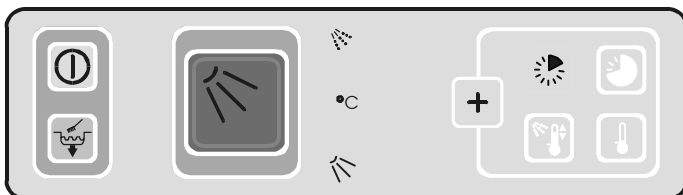
● Short programme or intensive programme

Depending on the level of soiling on the wash items, *select* one of the two special programmes:

Short prog.: Press  and then 

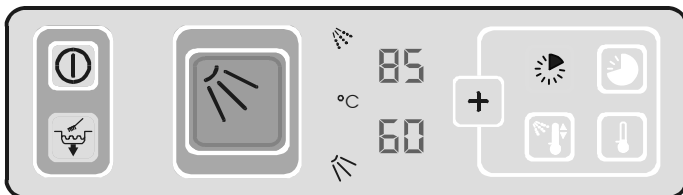
or

Intensive prog.: Press  and then 



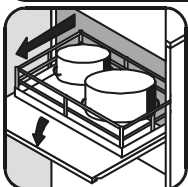
Example: Operating panel display during wash cycle with **short programme** selected.

Button  is lit blue.



Operating panel at end of programme

Button  is lit green.



Open door.
Pull out washing rack.
Remove wash items.
Close door or load in more wash items and clean.

Every further wash cycle is run with this setting until either another program or the plus button is pressed.

● **Normal programme with reduced temperature rinse (optionally available)**

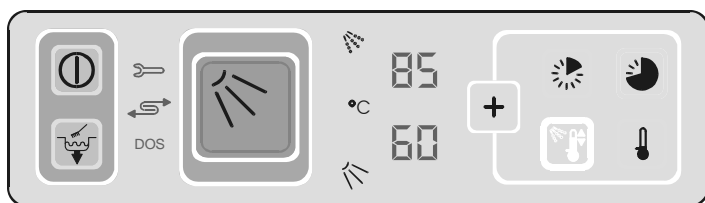


This device is used to rinse off **protein-containing soiling (remains of meat and blood)** from the wash items to prevent the protein from coagulating with the wash water during cleaning.


The machine can be equipped with **manual reduced temperature rinse**, then it is possible to select whether reduced temperature rinse is run or not; or with **automatic reduced temperature rinse** – then reduced temperature rinse is run before every wash cycle.

Manual reduced temperature rinse

Condition for continued operation: The button area with the special programmes has been activated (buttons 10, 12 and 13 are lit), the wash items are in the machine and the door is closed.




Press button: 

Select normal programme: 

At the start of the rinse program the wash items are rinsed with cold water. Rinsing is followed by the normal cleaning cycle with hot wash water and hot fresh water rinse.

Every further wash cycle is run from now on with this setting until either another programme (short or intensive) or the plus button is pressed.

Automatic reduced temperature rinse

At the start of the programme the wash items are always rinsed with reduced temperature. The function button  cannot be selected.

Note for manual addition of detergent:

Please note that the concentration of detergent in the wash water diminishes more rapidly when the reduced temperature rinse is used. Therefore add somewhat more detergent when this facility is continually in use.

Addition table when using Winterhalter Gastronom **Detergent P 65:**

	Fresh water rinse	Dosage quantity (*)	Winterhalter measuring cup
GS 640, GS 650	ca. 5 l/basket	110 g	¾
GS 660	ca. 7,5 l/basket	165 g	1

(*)The need for greater quantities of detergent must be accounted for in case of heavily soiled wash items or e.g. extreme water hardness.

Other detergents must be dosed according to the information stated on the detergent packaging.

10 Changing the programme setting

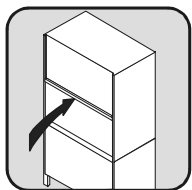


Changing the programme setting for the special programmes and for the normal programme can be carried out with the door open or closed.

● Changing between the special programmes



Select desired programme (press *button*). The previously selected programme is thus cancelled.




Close door.



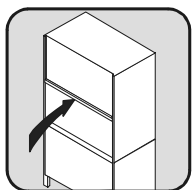
Press programme button.

● Changing from special programme to normal programme

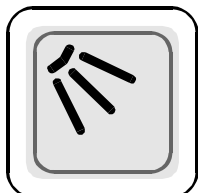


Press function button. 

The button area with the special programmes is no longer lit.



Close door.

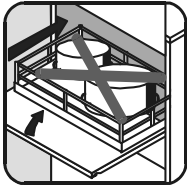


Press programme button.
Normal programme starts.

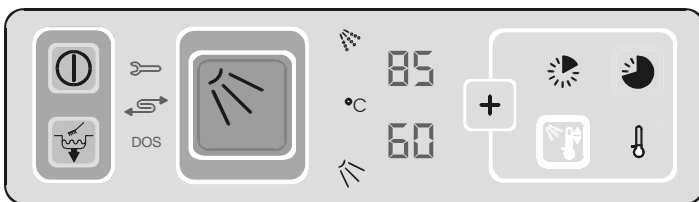
11 After washing


● Tank drainage / self-cleaning

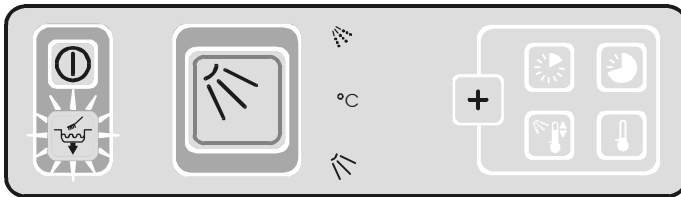
With the cleaning programme, the interior of the utensil washer is cleaned. The wash pump operates for 30 sec. The dirty wash water is pumped off. The utensil washer switches off automatically after the cleaning programme has finished.



Remove wash items, *push* wash basket into the machine, *close* door.

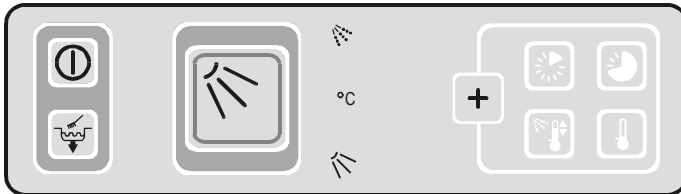


Hold down function button  for 3 seconds.

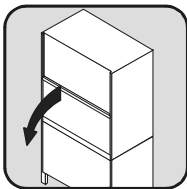


Operating panel display during the cleaning programme.

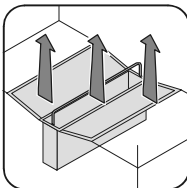
Button  flashes.



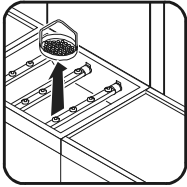
Operating panel display at end of programme.



Open door



Remove and *clean* basket filter and flat filter.



Remove and clean drainage filter.

Check the interior of the machine for cleanliness. Remove any remaining dirt with a brush if necessary. Do not use steel sponges to do this because otherwise the machine could be contaminated with rust.



Re-insert the parts removed after cleaning.



- Leave door open. In this way the interior can dry out.
- Clean the outer walls of the utensil washer with cleaning products for high grade stainless steel.
We recommend Winterhalter Gastronom high grade stainless steel cleaner and Winterhalter high grade stainless steel protection.

● Switching off



After the cleaning programme has finished, the control of the utensil washer is switched off. The machine is not yet safe, however.

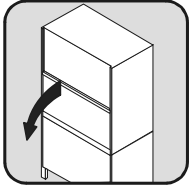


Turn water stop valve to closed position.

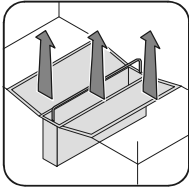


Switch off the mains disconnecting device (mains switch) provided by the customer.
Now the machine is safe.

12 Maintenance and care



Open door.



Remove and *clean* basket filter and flat filter.

Remove wash arms and *check* jets for blockages, *clean* if necessary.

Remove drainage filter, *check* for blockages and *clean* if necessary

Free machine interior from remains e.g. with a brush

Insert filters and wash arms again.

Clean the supply filter after the water stop valve.



Clean the outer walls of the utensil washer with special cleaning products for high grade stainless steel. We recommend Winterhalter Gastronom high grade stainless steel cleaner and Winterhalter high grade stainless steel protection.

● Descaling

Drain machine.

Interrupt detergent supply: Remove suction pipe from the detergent canister.

Re-fill machine.

Addition of the descaling solution according to manufacturer's instructions.



Observe the printed safety instructions.

Trigger intensive programme once or twice (max. 10 minutes circulation). This loosens the coating of scale.

Drain machine.



Never leave the descaling solution in the machine for a period of several hours.

Put detergent supply into operation again.

Re-fill machine..

Operate machine twice more in the intensive programme.

Drain machine or use for the current wash programme.

13 Malfunctions

13.1 Malfunctions you can remedy yourself

You can remedy minor malfunctions yourself. See the following table. If you cannot remedy the fault, please get in touch with the responsible Winterhalter customer service.




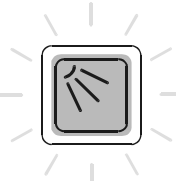
Do not open any panels or parts of the machine if you need a tool to do so. You may get an electric shock.

Only trained specialists are allowed to work on the electrical system. Unplug the machine from the mains supply beforehand.

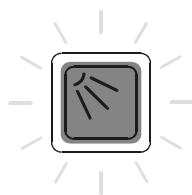
Do not switch the machine back on until the cause of the fault has been remedied.

Switch off the main switch on your premises. Only then is the machine no longer live.

Display	Cause	Remedy
The washer cannot be switched on	The mains disconnecting device (mains switch) provided by the customer is not switched on.	Switch on the mains disconnecting device (mains switch) provided by the customer.
	Customer's fuses blown	Replace the customer's fuses
Wash programme does not start	Door is not completely closed	Close door completely.
Dishes are not clean	Too low dosage of detergent or detergent container empty	Fill up detergent container or add detergent powder
	Basket filter and/or flat filter blocked	Clean basket filter and flat filter
	Wash jets in the wash arms blocked	Clean wash jets
	Functional fault in the water treatment	Call Winterhalter service engineer
Display shows: 	Water stop valve closed Malfunction	Switch off machine (press on-off switch). Then Err will appear on the control panel accompanied by a fault code. If error code 20 is shown, close the water shut-off valve and notify Winterhalter customer service. If other error codes are displayed, check whether the water shut-off valve is opened. Then switch on the machine again. If the fault message appears again, note the fault code and get in touch with the appropriate Winterhalter customer service

Display	Cause	Remedy
Key flashes blue 	If the cutlery has not been properly cleared away beforehand, so much dirt may have collected on the flat filter and in the filter cassette that the rinsing program can no longer run properly. The washing pump switches off and the program key flashes blue.	<ul style="list-style-type: none"> • Switch off machine, the program key will continue to flash. • Take out filters, clean and replace them. • After two minutes, the flashing will stop. Switch the machine back on and continue to run it. • Clear away the cutlery more carefully to avoid further malfunctions.

13.2 Malfunctions calling for the Winterhalter customer service



Red flashing light: Temperature in boiler or tank is greater than 95°C.






Caution: Surface is very hot. The fault (3) symbol appears together with the fault code Err 2 or Err 3. Switch off the mains disconnecting device (mains switch) provided by the customer. Notify the Winterhalter service team immediately.

When the machine can no longer be used because of internal faults, the machine turns itself off automatically and displays an error code.

Display	Possible cause	Remedy
Machine switches off and displays Err 1, 11	Fault inside machine	Notify Winterhalter customer service
Machine switches off and displays Err 6	Fault inside machine or water drain is clogged	Notify Winterhalter customer service or remove cause of clogging.
Machine is switched off and displays Err 21	Magnetic valve not closing	Close the water shut-off valve and notify Winterhalter customer service.
Machine switches off and displays nothing at all	Fault inside machine	Notify Winterhalter customer service

Error alarms in machines with optional extras

Display	Possible cause	Remedy
	Lack of detergent or rinse additive	Re-fill detergent or rinse additive
	External water treatment system needs regenerating	Regenerate external water treatment system
	Peak load cut-off active	Wait until the peak load cut-off switches on the machine completely again.

14 Emission values

Noise emission values

Workplace related emission value measured according to DIN EN ISO 11202: $L_{pAeq} < 70\text{dB}$

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