

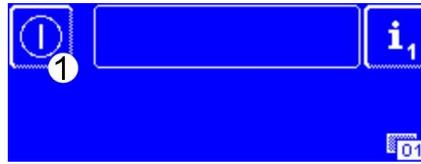
Operating instructions



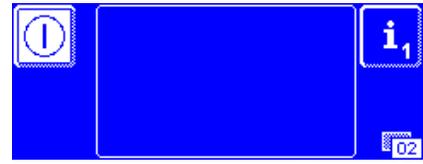
Short instructions

IMPORTANT: Read the detailed operating instructions and safety notes before first use.

Switching on the machine



Screen 01

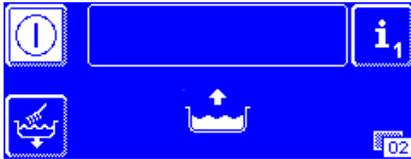


Screen 02

- Touch the screen with your finger.
- ⇒ Screen 01 appears.

- Press and hold the on button (1) for approximately 2 seconds
- ⇒ Screen 02 appears.

The welcome message disappears automatically after a short time.



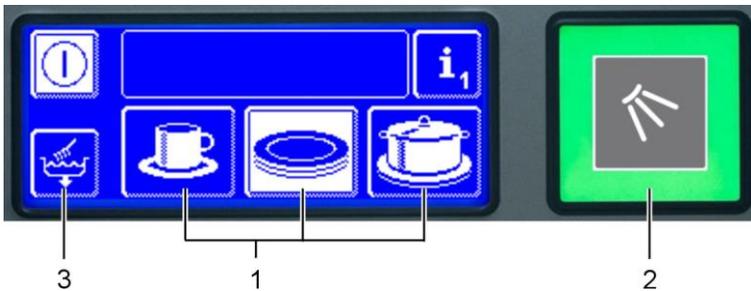
- ⇒ The machine's tank is automatically filled and heated at the same time.
- ⇒ Detergent is dosed into the machine's tank (assuming a dosing device is connected).



- ⇒ The machine is ready as soon as the rated temperatures have been reached.
- ⇒ The start button lights up green and the washing programmes are displayed¹.

Loading dishes

Starting the washing programme



- 1 Washing programmes¹
The washing programme with the white background is selected.
- 2 Start button
- 3 Self-cleaning programme

- Press the start button (2) to start the washing programme.
 - ⇒ The start button (2) first lights up in blue and then gradually turns to green to indicate the progress of the washing programme.
 - ⇒ The start button (2) flashes green as soon as the washing programme has been completed.
 - ⇒ On machines with integrated exhaust air heat recovery the start button (2) flashes green and blue whilst vapours are extracted.

Removing dishes

Switching off the machine

- Press and hold the button (3) for approximately 2 seconds to start the self-cleaning programme.
 - ⇒ The inside of the machine is cleaned and finally drained.
 - ⇒ The start button (2) lights up blue and switches off in three steps as the self-cleaning programme progresses.
 - ⇒ The machine switches off.

¹ The display of washing programmes depends on the purpose for which the machine has been programmed.

Operating instructions

for Winterhalter UC Series

(translation of the original German operating instructions)

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1 About these instructions

This manual contains information and instructions for the safe operation and maintenance of your dishwasher.



Please note carefully the safety notes listed here.

The following symbols are used in these instructions:

Symbol	Meaning
 Danger	Warning against potential serious or fatal injuries to persons if the described precautionary measures are not taken.
 Warning	Warning against potential minor injuries to persons or potential material damage if the described precautionary measures are not taken.
 Caution	Warning against defects in or destruction of the product if the described precautionary measures are not taken.
	Carefully read through the safety notes and operating instructions in this manual before working with this machine.
IMPORTANT	Important information is given here.
INFO	Useful information is given here.
➤	This symbol indicates instructions.
⇒	This symbol indicates results of your actions.
–	This symbol indicates itemizations.
▶	This symbol refers to a chapter with more detailed information.

2 Intended use

- The UC series dishwashing machines are technical pieces of equipment for commercial use and are not intended for domestic applications.
- The UC series dishwashing machine is to be used exclusively for washing dishes, e.g. plates, cups, cutlery and trays or for washing glasses in catering and similar companies.
- This device may be used by children from the age of 8 upwards as well as by those with reduced physical, sensory or mental capabilities or a lack of experience and knowledge if they are supervised or have been instructed on how to safely use the device and understand the risks associated with it.

2.1 Non-intended use

- Children must not play with the device.
- Cleaning and user maintenance should not be carried by children without supervision.
- Do not use the dishwashing machine for washing electrically heated cooking implements or items made of wood.
- Always wash using washing racks suitable for the dishes. Never wash without a washing rack.
- Do not wash plastic items unless they are heat-resistant and will not be damaged by the detergent solution.
- Only use a suitable detergent to wash aluminium items such as pots, containers or tins, in order to prevent black discolouration.
- Winterhalter Gastronom GmbH will not accept liability for any damage caused by failure to use the dishwashing machine in accordance with the intended use.

3 Safety notes

3.1 General safety notes

- Read through the safety notes and operating instructions in this manual carefully. Winterhalter Gastronom GmbH does not assume liability or warranty in case of non-compliance with these safety and operating instructions.
- Use the warewasher only after you have read and understood the operating instructions. Allow the Winterhalter Customer Service Department to provide information about the operation and functioning of the warewasher.
- Do not climb or sit on the opened hinged door.
- Train the operating personnel as regards handling the machine and inform them about the safety notes. Repeat the training sessions at regular intervals to prevent accidents.
- For your safety, test the on-site residual current circuit breaker (FI) regularly by pressing the test button.
- Close the on-site water stop cock after the work is complete.
- Switch off the on-site mains disconnecter after the work is complete.

3.2 Electrical safety

- The electrical safety of this machine is guaranteed only if it is connected to a correctly installed protective circuit and a residual current circuit breaker. It is crucial that this basic safety requirement is tested and, in case of doubt, that the house installation is checked by a qualified electrician.
Winterhalter cannot be held responsible for damage caused by a missing or broken protective conductor (e.g. electrical shock).

3.3 Maintenance and repair work

- When performing installation, maintenance and repair work, unplug the machine from the mains supply.
- Maintenance work and repairs may only be performed by authorised Winterhalter service technicians. Improper maintenance or repairs may cause significant danger for the user, for which Winterhalter is not liable.
- Original spare parts must be used for repairs or to replace consumable parts. If original spare parts are not used, the warranty is invalidated.
- Operate this machine only when it is in perfect condition.
- A damaged or leaking machine may endanger your safety. In case of danger and/or defects, switch off the machine immediately. Switch off the on-site mains disconnecter (main switch). Only then is the machine without power.
- Contact your installer or electrician if the on-site water or electricity supply is the cause of the malfunction.
- Contact an authorised service technician or your dealer if any other fault occurs.
- If the mains cable is damaged, to prevent hazards it must be replaced by Winterhalter or its Customer Service or another qualified person. The mains cable must be an H07 RN-F type or equivalent.

4 Before working with the machine

- Have the machine installed by your service technician authorised by Winterhalter or dealer. You will find further information in chapter 22. Follow chapter 17 if the installation location is not free of frost.
- Have the machine connected by authorised technicians in accordance with the locally applicable standards and regulations (water, waste water, electrics). You will find further information in chapters 23 and 24.
- Have the machine commissioned by a service technician authorised by Winterhalter. At the same time, have yourself and your operating personnel trained in how to operate the machine.

4.1 Initial installation

- After the machine has been correctly connected to water and electricity, contact your Winterhalter branch or your dealer in order to request initial installation and training on how to operate the machine.

5 Product description

The UC series dishwashing machines are designed to be used to wash various dishes. The service technician authorised by Winterhalter does not program the machine's control unit for use of the dishwashing machine as a "special machine" for a specific application until it is installed. Alternatively, the dishwashing machine is supplied ready-programmed for a specific application, but can be reprogrammed at any time.

Programming determines whether the machine can be used either as:

- a dishwashing machine (if mostly dishes are to be washed), or as
- a glasswashing machine (if mostly glasses are to be washed), or as
- a bistro dishwashing machine (if dishes and glasses are to be washed), or as
- a cutlery rinsing machine (if only cutlery is to be washed).

If the application changes, the service technician authorised by Winterhalter reprograms the control unit and thus adapts it to your requirements.

Special equipment¹

Cool (only for glass washing machines)

The washing power of the constantly hot tank water ensures hygienic results. At the end of the wash cycle, the rinse with cold fresh water ensures the glasses are cooled.

The special benefit: the rinse temperature can be increased at any time. You can always at all times whether you require cold glasses or wish to optimise drying with a hot rinse.

IMPORTANT: The first wash cycles after activation of the function are performed with hot or warm rinse water.

Requirement: Machine connection to cold water.

Energy

The construction above the machine includes a fan motor and a heat exchanger. After rinsing, the fan motor draws the moist, warm vapours out of the washing area through the heat exchanger. The cold fresh water which flows through the heat exchanger for rinsing during the following washing programme condenses the vapours and is pre-heated. This reduces the energy required to heat the fresh water to the required rinse temperature. At the same time, the air quality in the kitchen is improved in the long-term since less vapour (i.e. exhaust) escapes the machine when the machine door is opened.

Requirement: Machine connection to cold water.

UC-S Excellence-i(Plus), UC-M Excellence-i(Plus)

A reverse osmosis module is built into the plinth of these machines. The reverse osmosis module produces osmosis water for the rinse. The special functions are described in a supplementary manual that comes with the machines.

¹Special equipment is not available in every country. Find out about the availability in your country by referring to the Winterhalter website.

PAY PER WASH

Machines with this special equipment are rental machines. All wash cycles have to be purchased in the Winterhalter Internet portal.

Identification feature: The text PAY PER WASH on the display.

The special functions of PAY PER WASH are described in a supplementary manual that can be downloaded from the Winterhalter website: www.winterhalter.biz/manuals.

CONNECTED WASH

Machines with this special equipment can be connected with the Winterhalter Internet portal. After registration, you can read the various operating data and information about the machine there. The special functions are described in a supplementary manual that comes with the machines.

6 Rinse aid and detergent



Danger

Possible risk of chemical burn

- Wear protective clothing, protective gloves and protective goggles when handling chemicals.
- When handling chemicals, observe the safety notes and the dosage recommendations on the packaging.



Caution

- Only use products which are suitable for commercial dishwashing machines. Such products are marked accordingly. We recommend using products developed by Winterhalter. These products are specially adapted for Winterhalter dishwashing machines.
- Do not mix different detergent products as this could result in crystallisation and consequently cause irreparable damage to the detergent dosing device (► 6.6).
- Do not fill the storage tanks for rinse aid with detergent and vice versa.

6.1 Rinse aid

Rinse aid is required so that the water on the dishes drains off as a thin film and dries quickly after washing. Rinse aid is dosed into the machine's boiler automatically, either from a storage tank integrated in the machine or an external storage tank. The rinse aid dosing device is integrated into the machine. The dosing quantity is set by the service technician authorised by Winterhalter when the machine is installed.

INFO: The rinse aid dosing device is not part of the scope of delivery for all machines.



A display on the screen indicates when integrated storage tanks are empty (► 11.1). External storage tanks have to be fitted with a suction tube with level control if a display on the screen is required to show when the filling level drops.

6.2 Detergent



Caution

Do not use products that can create foam (e.g. hand soap, soft soap, manual washing-up liquid). Ensure that these do not enter the machine even during the pre-treatment of the wash items.

Detergent is required to remove food residue and soiling from the dishes. Detergent can be dosed in the following ways:

- manually as detergent powder.
- automatically from an integrated storage tank by an integrated detergent dosing device.
- automatically from an external storage tank by an integrated or externally fitted detergent dosing device.

INFO: The detergent dosing device is not part of the scope of delivery for all machines.

6.2.1 Dosing the detergent powder

Pre-dosage

- Add the detergent powder in the machine as soon as the start button lights up green. The machine is then ready for operation (heated up).
 - UC-S:** approx. 30 g
 - UC-M, UC-L and UC-XL:** approx. 50 g
- Start a wash cycle immediately afterwards in order to mix the detergent powder with the water.
- Adhere to the instructions for dosing on the detergent packaging.

Additional dosage

- After 5 wash cycles add approx. 10-15 g of detergent powder in the machine.

6.2.2 Dosing the liquid detergent

The dosing quantity is set by the service technician authorised by Winterhalter when the machine is installed.



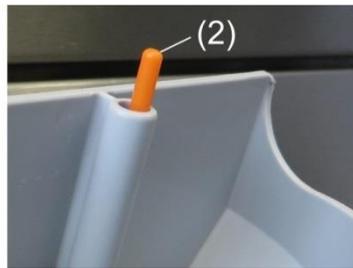
A display on the screen indicates when integrated storage tanks are empty (► 11.1). External storage tanks have to be fitted with a suction tube with level control if a display on the screen is required to show when the filling level drops.

6.3 Pour in liquid detergent and rinse aid



Caution

- When filling make sure that no detergent gets into the rinse aid storage tank, and vice versa.
- Opening with white flap: Detergent storage tank
- Opening with blue flap: Rinse aid storage tank



- Take hold of the lower body panel sides on the storage tanks and fold them forward
- Place funnel (1) in the filler opening.
- Place container on the funnel and fill until the float switch (2) is visible.
- Fold lower body panels back
- Rinse the funnel in the dishwasher after use.

6.4 Priming the dosing device

The dosing devices have to be primed if air has entered into the dosing tube due to the storage tanks not being refilled quickly enough.

- For an integrated dosing device proceed as described in chapter 12.
- For an external dosing device refer to the equipment documentation.

6.5 Suction tube with level control



Caution

- Only use the suction tube with sufficiently stable containers. Narrow and tall containers can tip if the suction tube is pulled.
- Do not place the suction tube for the rinse aid in the detergent container or vice versa.
- Do not pull unnecessarily on the suction hose or main power cable, as this may lead to a defect.

As an option, with your machine you may have one or more suction tubes. The suction tube is already connected to the machine.



Figure 1

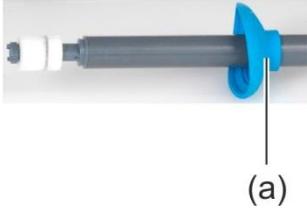


Figure 2

Figure 1:
Suction tube for detergent
Transparent suction hose
Black cap

Figure 2:
Suction tube for rinse aid
Blue suction hose
Blue cap

Servicing and maintenance



- Rinse the suction tube at every container change under running water. Remove crystallised detergent residue.
- Ensure that both vent holes (a) in the caps are open.
- Put the suction tube back into the container. Slide the cap downwards until the container opening is closed.

6.6 Changing the detergent product

- Pay attention to the following when changing the detergent product:
 - Mixing different detergent products can lead to crystallisation and cause the dosing device to fail. This is the case even if the new detergent product is from the same manufacturer.
 - As a rule, a new detergent product means it is also necessary to reset the dosing device.
 - The entire system, comprising the storage tank, dosing tubes and detergent dosing device, has to be flushed with water before the new detergent is used.
- Have the necessary work carried out by the service technician authorised by Winterhalter so that you continue to achieve good washing results.

Winterhalter Gastronom GmbH will not accept any liability and all warranty claims will be rendered null and void in case of failure to comply with this instruction.

If the detergent is dosed from external storage tanks, you can flush the dosing tubes and the detergent dosing device with water yourself:

Procedure:



When using chemicals, adhere to the safety notes and recommended dosages printed on the packaging.

Wear protective clothing, protective gloves and protective goggles when handling chemicals.
Do not mix different detergent products.

- Remove the suction tube from the storage tank and insert it in a container filled with fresh water.
- Flush the dosing tubes and the detergent dosing device with water by repeatedly using the “vent the dosing device” function (see ► 12). How frequently you do so depends on the length of the dosing tubes.
- Insert the suction tube into the storage tank with the new detergent.
- Repeatedly use the “vent the dosing device” function to replace the water in the dosing tubes with detergent.

7 Integrated water softener (optional)

Softening the tap water prevents the build-up of limescale in the machine and on the dishes. In order for the integrated water softener to function properly, the salt container must be filled with regeneration salt.

7.1 Entering the water hardness

When the machine is installed, the service technician authorised by Winterhalter measures the water hardness and enters the respective value.

7.2 Lack of salt display



A display on the screen (► 11.1) indicates when an empty salt container needs to be refilled. The display disappears after topping up the salt container as soon as approx. 3 wash cycles have been complete and some of the salt added has dissolved.

7.3 Adding regeneration salt



Caution

Only add regeneration salt to the salt container.

This salt should be fine-grained (max. 0.4-7 mm grain size). Salt tablets are not suitable. Do not add any chemicals, e.g. detergent or rinse aid. These will inevitably cause damage to the water softener.



Caution

After filling start a wash cycle.

After filling, immediately start a washing programme in order to rinse off any salt residue. Otherwise there is a risk of rusting in the filling area.



Open the machine door and remove the washing rack from the machine



Unlock the bottom rotating wash field



Remove the bottom rotating wash field from the machine



Open the screw cap on the salt container and fill the salt container to the brim with fresh water (only required for initial installation).



Place the funnel in the filling opening on the salt container and gradually add 3 bags of Winterhalter special salt (=1.5 kg). Remove the funnel and clean any salt residue from the filling area.



Screw the salt container tight again, keeping the cover straight. Re-install the bottom rotating wash field. Check whether the wash field rotates easily.

8 Controls

Display (Touchscreen) and start button



Activating the display

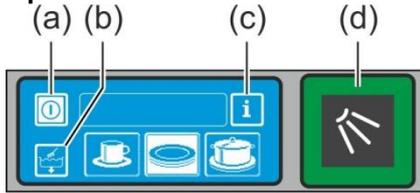
- Touch the display with your finger.
 - ⇒ The display turns on and then off again after a short time. This saves energy and prevents accidental switching on of the machine.

INFO Switching on the machine, see Section ► 9.2.

On the screen touch-sensitive buttons (keys) are displayed. Operate the screen with your fingers only, not with sharp objects. Each touch of a button is confirmed by a beep. Events such as the end of the programme or malfunctions are indicated by a sequence of tones.

INFO An authorised service technician can deactivate the beep and the sequence of tones.

Operational state



- (a) On/Off key
- (b) Self-cleaning programme
- (c) Change to Info Level 1 → Info Level 2 → PIN Menu
- (d) Start button

Start button

The coloured lighting of the start button (d) has the following meanings:

Colour	Meaning
not lit	Machine is switched off
red	Machine is not yet ready for use
green	Machine is ready for use
blue	Machine is washing
red and green	Machine is filling and heating up
green and blue	Washing programme is running
blue and not lit	Self-cleaning programme is running
flashing green	Washing programme is ended. The green flashing start button indicates that the washing programme has been completed and that the door has not yet been opened.
flashing green-blue	Only for the Energy models: Vapours being extracted. The washing programme has not completely finished.

Menu levels

The machine electronic control unit is split into 3 levels:

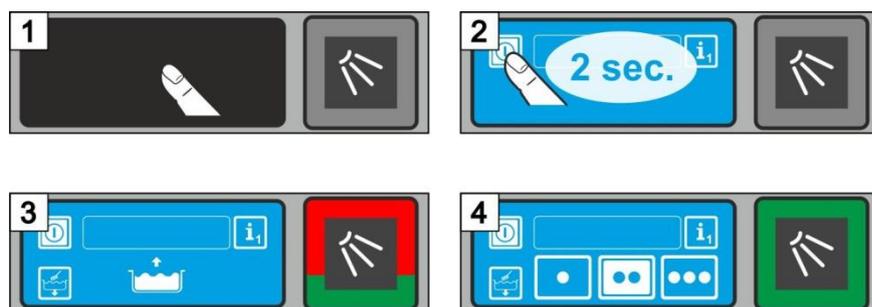
- **Level for the dishwashing staff (► 9)**
- Info level 1 with additional washing programmes and information (► 12)
- Info level 2 with access to the PIN Menu (► 14)

9 Operation

9.1 Before switching on the machine

- Open the on-site water stop cock.
- Switch on the on-site mains disconnecter.
- For your own safety, test the on-site residual-current circuit breaker (RCCB) by pressing the test button.
- Open the machine door and check whether the wash fields (top and bottom) and the filters (strainer, filter cylinder) are installed.
- Close the machine door.
- Check whether there is detergent and rinse aid in the storage tanks (integrated in the machine or external). Top them up in time or replace the storage tanks so that the cleaning result will not be negatively affected.

9.2 Switching the machine on and preparing it so that it is ready for operation



9.3 Washing



Warning

Possible risk of scalding from hot wash water

- Keep children away from the warewasher. The wash water in the interior is at a temperature of approx. 62 °C.
- Do not open the door while the machine is washing. There is a risk of the hot wash water spilling out. Stop the washing programme before doing so (► 9.3.6).

Possible risk of injury

- Arrange sharp, pointed utensils so that they do not cause injury.

9.3.1 The standard programmes

The washing programme display depends on which application the machine has been programmed for. If necessary, the machine can also be reprogrammed later.

Programme 2 is already pre-selected when the machine is ready. Another washing programme is selected by tapping. The selected programme is represented by a button with a white background.

Application of the machine	1	2	3	Programme 1 for	Programme 2 for	Programme 3 for
Dishwasher				slightly dirty dishes	medium dirty dishes	heavily dirty dishes
Glasswasher				delicate glasses	less delicate glasses	robust glasses
Bistro dishwasher				glass	glasses and cups	plates
Bistro and cutlery washer				glass	cutlery	plates
Cutlery washer					cutlery	

INFO The indicator on your dishwasher may vary since the authorised service technician can display appropriate images for your machine from a collection of images. At your request, the service technician can also hide programmes.

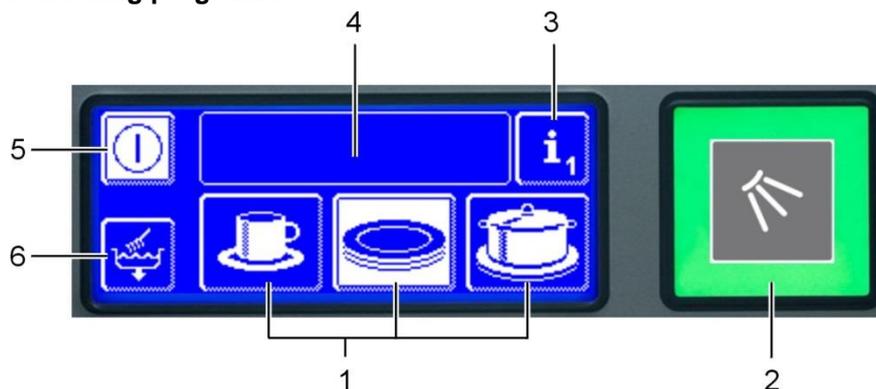
9.3.2 Loading dishes



- An excessive level of soiling can clog the filter system and hamper the washing programme sequence.
- Do not wash any items with wax residue (e.g. candlesticks). The drain pump may be damaged by hardened wax.
- Do not wash parts made of plastic if they are not heat and lye-resistant.
- Only wash parts made of aluminium such as pots, containers or trays with a specially suitable detergent, to avoid black discolourations.

- Adhere to the following guidelines when loading the washing rack with dishes and cutlery:
 - Remove any larger food residue.
 - Place the plates into the rack with the top facing the front.
 - Load cups, bowls and pots with the opening facing downwards.
 - Wash the cutlery either upright in the cutlery holders or lying in a flat rack. Make sure that the dishes are not too closely packed. Soak the cutlery before you wash it.
 - Place knives and other sharp and pointed cutlery items with the handle at the top to avoid injuries.
- After pushing in the washing rack, check whether the top and bottom wash fields rotate freely.
- Adhere to the following guidelines when loading the washing rack with glasses:
 - Pour away any left-over drink (do not pour into the machine).
 - Remove any paper waste.
 - Rinse off any ash with water.
 - Load glasses with the opening facing downwards.
 - Space the glasses so that they do not touch. This prevents scratching.
 - For tall glasses, select a rack with the appropriate divisions so that the glasses are held in a stable position.
- After pushing in the washing rack, check whether the top and bottom wash fields rotate freely.

9.3.3 Starting the washing programme



(1)	Washing programme (standard programme ¹)
(2)	Start button
(3)	Switch to info level 1 (▶ 12)
(4)	Info field for displaying malfunctions in the form of pictograms (▶ 11.1)
(5)	Off button (does not drain the tank)
(6)	Self-cleaning programme (▶ 10.1.2)

- Select the washing programme which best suits the level of soiling and the type of dishes. You will find an overview of available programmes in chapter 9.3.1.
- Press the button for the desired washing programme if it is not yet displayed with a white background. The selected washing programme remains saved until another programme is selected.
- Press the start button (2) to start the washing programme.
 - ⇒ The start button (2) lights up blue and then switches to green whilst the washing programme is in progress.

If the soiling is dried on particularly stubbornly, the washing programme can be intensified.

- Press the start button (2) twice quickly in succession (“double click”).



⇒ The “brush” symbol in the info field (4) flashes.

INFO: The intensified programme only affects the washing programme currently in progress and is then deactivated automatically.

9.3.4 Completion of the programme



The start button flashes green as soon as the washing programme has been completed.

INFO: The green flashing start button indicates that the washing programme has been completed and that the door has not yet been opened. If you find the flashing objectionable, an authorised service technician can set the machine control unit so that the start button no longer flashes green.

9.3.5 Completion of the programme (Version Energy)



After dishwashing, the warm-humid vapour is aspired off the washing compartment, and the heat energy stored in it is recovered for the next washing sequence. The start button **flashes blue / green**.

If possible, do not open the machine door during this time, in order to aspire the warm-humid vapours completely from the washing compartment. Open the machine door as soon as the start button **flashes green**.

¹ The display of washing programmes depends on the purpose for which the machine has been programmed.

9.3.6 Cancelling the washing programme prematurely

The following options are available for cancelling the washing programme prematurely:

- Press the start button (2).
- Press the button for the selected washing programme on the screen.
- Press the off button (5) on the screen.

9.3.7 Breaks in operation

- In order to maintain the rated temperatures, do not switch the machine off during breaks.

9.4 Switching off

Switching off and draining the tank:



- Switch the machine off at the end of the working day using the self-cleaning programme (▶ 10.1.2).
- Then close the on-site water supply stop cock.
- Then switch off the on-site mains disconnector.

Switching off without draining the tank:



- Press the off button (5).
 - ⇒ The screen darkens and the machine is switched off. The tank remains filled, but the temperature is no longer maintained.

INFO: If the tank temperature has dropped too much until the next washing cycle, the tank is empty and will be refilled.



Warning

The machine remains live until the on-site mains disconnector is switched off.

10 Maintenance and care



Warning

Do not spray off the machine and the immediate vicinity (walls, floors) with a water hose, steam cleaner or pressure washer. In order to prevent water from entering into the machine uncontrolledly, make sure that the machine's plinth is not flooded when cleaning the floor.

10.1 Daily cleaning

10.1.1 During operation



Warning

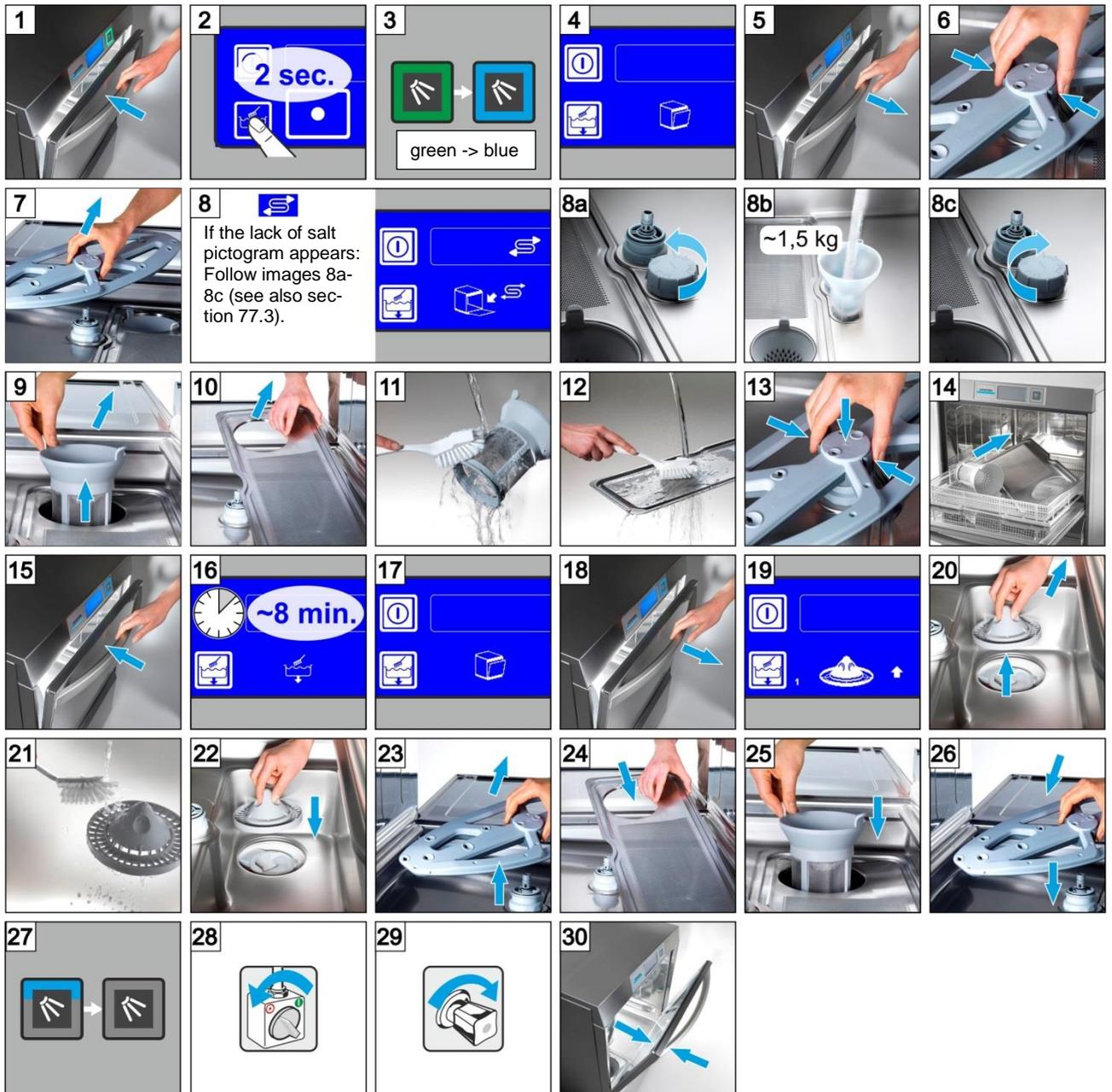
Wear protective clothing and protective gloves before touching any parts which are covered with detergent solution (filters, wash fields etc.)

Remove the filter cylinder, clean if necessary and re-insert it

10.1.2 Self-cleaning programme at the end of the working day

The machine is equipped with a self-cleaning programme that assists you when you are cleaning the inside of the machine. After the first programme step (figure 4), the self-cleaning programme is interrupted so that you can remove the filter cylinder and the strainer and clean them (figures 5-15). If you do not follow these steps, the self-cleaning programme will continue automatically after 30 seconds.

➤ Proceed in accordance with Figures 1 to 30.



Terminating the self-cleaning programme:

- Press this button.
- ⇒ The background of the button becomes blue.
- ⇒ The machine is filled again.



10.1.3 Cleaning the inside of the machine



Caution

When performing daily cleaning, make sure that no foreign objects which may rust have been left in the interior of the machine. These objects can even cause “stainless steel” material to rust. Rust particles may originate from non-stainless steel dishes, cleaning aids, damaged wire racks or water pipes with no corrosion protection.

The following materials must **not** be used for cleaning:

- High-pressure cleaner
 - Detergents containing chlorine or acid
 - Sponges and wire brushes containing metal
 - Abrasives or abrasive cleaners
- Remove any soiling from the interior of the machine with a brush or a cloth.
- Clean the labyrinth below the door.

10.1.4 Cleaning the outside of the machine

- Clean the screen with a damp cloth.
- Clean the exterior surfaces with a stainless steel cleaner and stainless steel polish.

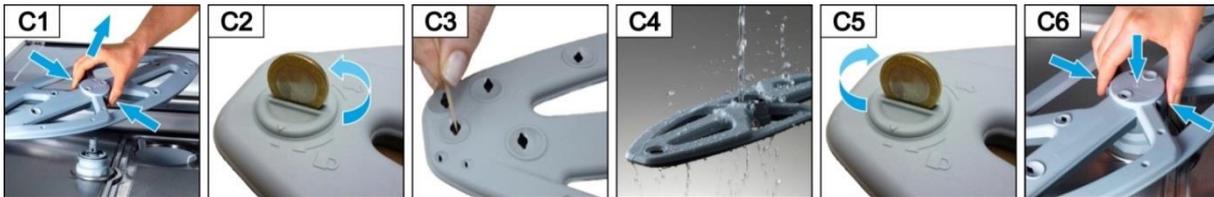
10.1.5 Checking the external water treatment (if available)

- Check whether sufficient regeneration salt has been added.

10.2 Weekly cleaning

Cleaning the rotating wash fields (top and bottom)

- Proceed in accordance with Figures C1 to C6.



10.3 Descaling

If the machine is operated with very hard water and without the appropriate water treatment, limescale can build up in the boiler, in the interior of the machine and in all lines which carry water.

Limescale deposits and the dirt and grease residue they contain represent a hygiene risk, and the limescale can cause the heating elements to fail. Therefore, it is essential to remove these deposits at regular intervals.

You should have the job of correctly descaling the boiler and all pipes which carry water carried out by a service technician authorised by Winterhalter.

You can descale the interior of the machine yourself using the descaling programme (► 14.5.1).



Warning

When using chemicals, adhere to the safety notes and recommended dosages printed on the packaging.

Wear protective clothing, protective gloves and protective goggles when handling chemicals.

10.4 Maintenance by customer service

We recommend having the machine serviced at least once a year by a service technician authorised by Winterhalter. This service should also include having components which are subject to wear or ageing being checked and replaced as necessary.

Examples of such components:

- Water connection hose
- Dosing tubes
- Door seal



On the electronic control unit you can program the maintenance interval in operating hours and set the number of remaining operating hours from which point the symbol for maintenance / servicing is displayed. If necessary, open the cleaning opening in the rotating wash field with a coin and rinse the rotating wash field with water.

11 Malfunctions

In this section you learn how to act in case of malfunctions. The table lists possible causes and instructions for remedial action. Contact a service technician authorised by Winterhalter if you are unable to rectify the fault yourself.



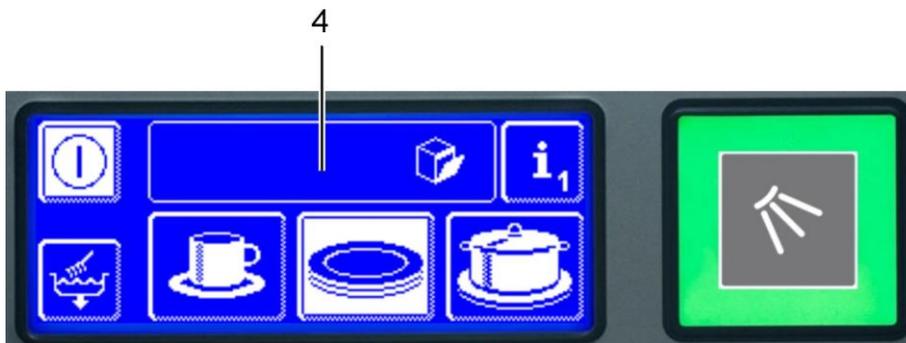
Risk of fatal injury due to live components.

Disconnect the machine from the mains and check that machine is de-energised.

Do not open any machine covers or machine components if you require a tool to do so. Risk of electric shock.

Have all work on the electrical system performed by a service technician authorised by Winterhalter. The machine must be disconnected from the electrical mains first.

11.1 Pictograms



Malfunctions are indicated by pictograms in the info field (4). In addition, each malfunction is also stored in the hygiene logbook (► 14.4) and can be called up from info level 2 (► 13). An entry is also made in both places as soon as the malfunction is remedied.

Pictogram	Meaning	Possible cause	Remedy
	The machine door is open	Programme start with open machine door	Close machine door.
	The detergent is empty ¹		Replace the container or top up the storage tank
	The rinse aid is empty ¹		Replace the container or top up the storage tank
	Lack of water	The water stop cock is closed	Open the stop cock
		The dirt filter in the dirt trap is blocked	Have the dirt trap cleaned by a service technician or have a new dirt trap installed.
		The solenoid valve is faulty or blocked	Call a service technician authorised by Winterhalter
	The integrated water treatment is exhausted	Lack of salt	Fill the salt container with re-generation salt
	External partial demineralisation unit or full demineralisation unit exhausted		Replace the partial demineralisation unit; replace the resin in the full demineralisation unit Reset the countdown water meter (► 14.7)

¹ is only displayed if the container has a container empty indicator connected to the machine.

Pictogram	Meaning	Possible cause	Remedy
	The service interval has expired	The number of operating hours entered on the control unit has elapsed. The machine should be serviced. INFO: This function is not activated in factory.	Call a service technician authorised by Winterhalter
	Check scaling	The number of operating hours entered on the control unit has elapsed. The machine should be descaled.	Start the descaling programme (► 14.5.1) Switch to info level 2 to delete the pictogram in the info field without starting the descaling programme
	The lower wash field is blocked	The lower wash field is blocked, e.g. by a piece of cutlery	Remove the blockage
	The upper wash field is blocked	The upper wash field is blocked, e.g. by tall dishes	Remove the blockage
	Foaming	Use of manual wash-up cleaner Large amount of protein	Drain and re-fill the machine
	The strainer is blocked	Heavily soiled strainer	Remove, clean and reinsert the strainer
	Tank will be filled	Attempted programme start, while the machine is filling up with water	Wait until the machine has been filled.
	Energy optimisation ¹	The on-site energy optimisation system switches individual electrical loads (heating elements) off.	Wait until the on-site energy optimisation system switches off
	Error on external water treatment	Various	Contact an authorised service technician for the repair
	Malfunction with error code	Various	Call up the error code (► 11.2) and call a service technician authorised by Winterhalter

11.2 Calling up the error code

The following pictogram flashes in the info field:



- Access info level 2.
⇒ The list of events and malfunctions (1) is shown.



(1)

Display	Explanation
Evt xx	Event (e.g. sequence of a washing programme)
ERR xx	Malfunction
ERR xx OK	Malfunction has been rectified

- Contact an authorised service technician for the repair.

¹ is only displayed if the machine is connected to an energy optimisation system.

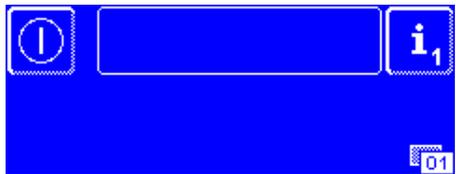
11.3 Poor cleaning results

	Possible cause	Remedy
Dishes are not cleaned	Too little or no detergent dosing	Set the dosing quantity according to the information provided by the manufacturer
		Check dosing lines (kinks, breaks, etc.)
		Replace the container
	Dishes not loaded correctly	Check the dosing device
	Dishes not loaded correctly	Do not stack dishes on top of one another
	The wash field jets are blocked	Remove the wash fields and clean the jets
	Temperatures too low	Check the temperatures (► 12)
Deposits form on the dishes	Limescale deposits: water is too hard	Check the external water treatment / integrated water treatment and set it correctly Perform basic cleaning (► 14.5.2)
	Starch deposits: excessively high temperatures for the manual pre-wash (spraying)	Temperature must not exceed 30°C
Dishes are not drying automatically	Too little or no rinse aid dosing	Set the dosing quantity according to the information provided by the manufacturer
		Check dosing lines (kinks, breaks, etc.)
		Replace the container
		Check the dosing device

11.4 Calibrating the touchscreen

If pressing a button fails to trigger an action, the touch-sensitive points of the displayed button may have drifted.

REMEDY:



Screen 01



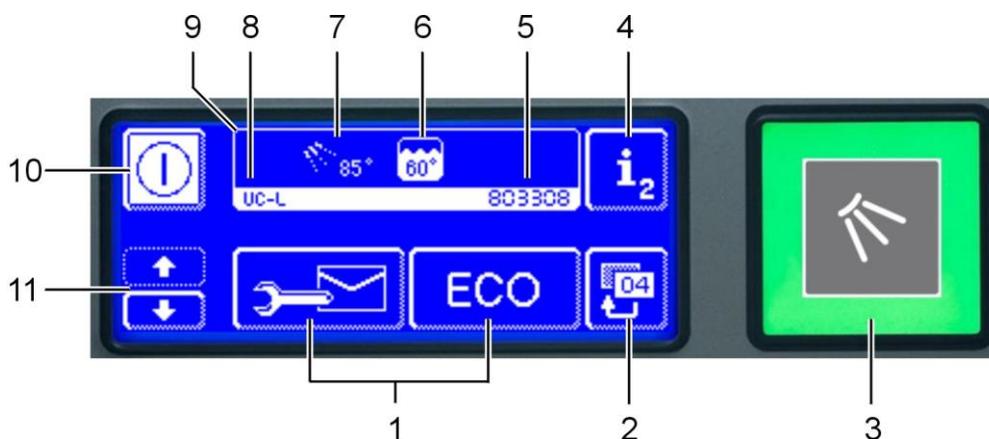
Screen 19

- Switch the machine off and touch the screen once.
- Press and hold the start button for 60 seconds.
 - ⇒ Screen 19 appears.
- Use a ballpoint pen (without the ballpoint) to touch the centre of the crosshairs and follow the further instructions given on the screen.

12 Info level 1

Accessing Info Level 1

➤ Press the following button:



(1)	Buttons for calling up information, venting the dosing devices and selecting additional programmes Further buttons appear when you press the scroll buttons (11)
(2)	Back button (to the standard programmes)
(3)	Start button
(4)	Switch to info level 2 (► 13)
(5)	Machine number
(6)	Current tank temperature
(7)	Current rinse temperature
(8)	Machine type
(9)	Info field
(10)	Off button (does not drain the tank)
(11)	Scroll buttons for area (1)

Buttons of area (1)



Addresses

➤ Press the button.

⇒ The following 2 addresses appear:

- SERVICE: Address of the service technician
- CHEMICALS: Address of the chemicals supplier (rinse aid, detergent, ...)

INFO If no addresses appear, the authorised service technician can enter the matching addresses.



Prime the detergent dosing device and dosing tube

➤ Keep the button pressed.

⇒ The background of the button becomes white. The dosing device is activated (max. 30 seconds)



Prime the rinse aid dosing device and dosing tube

➤ Keep the button pressed.

⇒ The background of the button becomes white. The dosing device is activated (max. 30 seconds)



Integrated operating instructions (▶ 16)

- Press the button.
 - ⇒ The integrated operating instructions appear.



Tips

- Press the button.
 - ⇒ Tips appear concerning themes such as hygiene, conservation of dishes and economy.

INFO Accessing the integrated operating instructions and tips is possible at any time, even while a washing programme is running.

Additional programmes

INFO The number of additional programmes depends on the programming of the machine.



Energy saving programme



Low-noise programme for especially quiet washing



Short programme



Special programme
The special programme can be freely programmed by the service technician to your wishes (time, temperature, mechanics, chemistry).

Using the additional programmes

- Tap on the button of the selected additional programme.
 - ⇒ The background of the button becomes white.
 - ⇒ In the info field the display of the temperature is replaced by the display of the additional programme.
- Press the start button (3) to start the additional programme.
 - ⇒ The start button (3) lights up in blue.
 - ⇒ The start button (3) flashes green when the additional programme has ended.
 - ⇒ The additional programme remains stored until it is disabled or another additional programme is selected.

Additional programmes with the "Cool" and "effect" special equipment



INFO Button appears only on "Cool" type machines. As long as the button is enabled (white background) rinsing will be with cold water. To disable the function, the button must be touched.

- ⇒ The background becomes dark and  flashes in the info field (9).



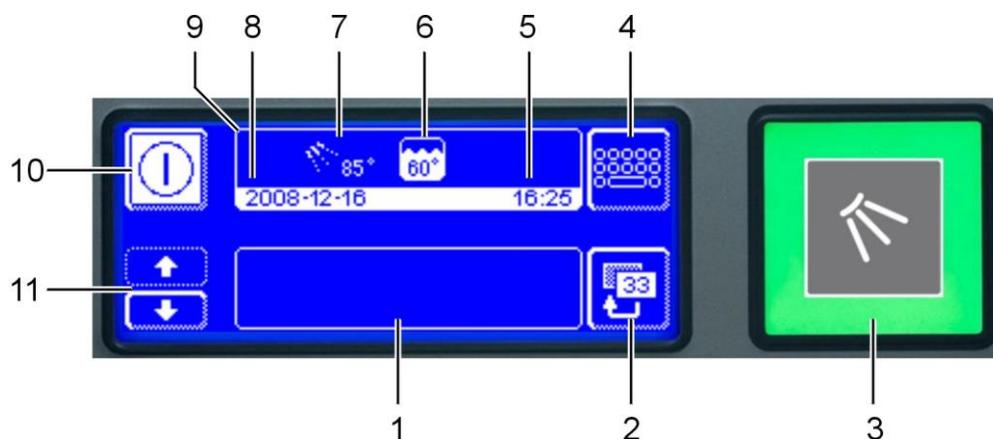
INFO Button appears only on "effect" type machines. As long as the button is enabled (white background) rinsing will be at a lower temperature. To disable the function, the button must be touched.

- ⇒ The background becomes dark and  flashes in the info field (9).

13 Info level 2

Accessing Info Level 2

➤ Tap the following buttons in turn:



(1)	Area for displaying events and malfunctions Further buttons and malfunctions appear when you press the scroll buttons (11)
(2)	Back button (to info level 1)
(3)	Start button
(4)	Switch to PIN menu (► 14)
(5)	Time
(6)	Current tank temperature
(7)	Current rinse temperature
(8)	Date
(9)	Info field
(10)	Off button (does not drain the tank)
(11)	Scroll buttons for area (1)

Events and malfunctions

In this field all events and malfunctions are displayed. Already resolved malfunctions appear here as well.

Example



last entry
↓
older entries

Display	Explanation
Evt xx	Event (e.g. end of a washing programme)
ERR xx	Malfunction
ERR xx OK	Malfunction resolved

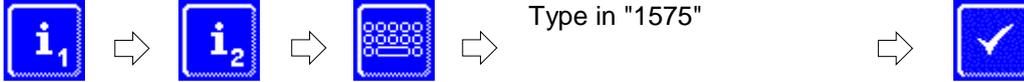
INFO Information with a date can be found in the Hygiene logbook (► 14.4).

14 PIN Menu

INFO If you switch to the PIN Menu, the machine switches off.

Accessing the PIN Menu

➤ Tap the following buttons in turn:



INFO
Incorrectly entered digits
can be corrected with the
← button.

INFO An incorrectly entered PIN is displayed on the screen with the  symbol. If you have entered your PIN incorrectly five times, the input is locked for 2 minutes.

Overview

	General settings (time, date, language, contrast) (▶ 14.1)
	Programming automatic switch on (▶ 14.2)
	Displaying the operating data (▶ 14.3)
	Accessing the hygiene logbook (▶ 14.4)
	Starting the descaling or cleaning programme (▶ 14.5)
	Changing the amount of detergent/rinse aid (▶ 14.6)
	Setting the parameters for external dosing devices (▶ 15.3)
	Resetting the water back-flow counter (▶ 14.7)
	only for CONNECTED WASH (▶ 14.8) Checking the connection

Leaving the PIN Menu

➤ Press the button.



14.1 General settings

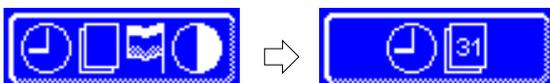
14.1.1 Date, time, temperature unit

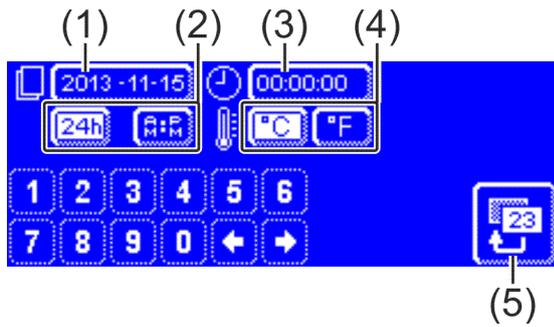
Here you can enter the current date and the current time, change the format of the time, and change the temperature unit.

INFO The time must be changed for the summer/winter time changeover.

Retrieving the settings

➤ Tap the following buttons in turn:





1	Current date (Format: YYYY-MM-DD (year-month-day)) INFO You can only enter only a plausible date.
2	Time format – AM/PM = 12-hour mode – 24 h = 24-hour mode
3	Current time
4	Temperature unit – °C = degrees Celsius – °F = degrees Fahrenheit
5	Back button

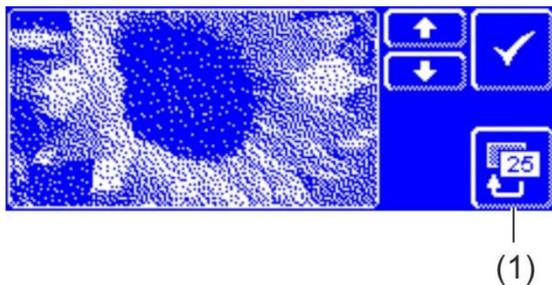
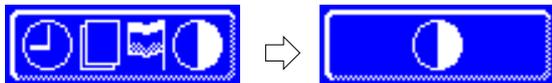
➤ Press the back button (5) to exit from the menu.

14.1.2 Setting the contrast

Here you can change the contrast to match the display of the screen to the lighting conditions in your kitchen.

Retrieving the settings

➤ Tap the following buttons in turn:



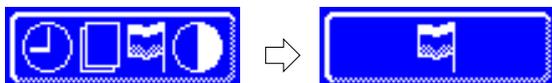
- Change the setting with the ↑ and ↓ buttons until all of the data on the display is readable.
- Confirm with the ✓ button.
- Press the back button (1) to exit from the menu.

14.1.3 Setting the language

Here you can set the language in which to display texts on the screen.

Retrieving the settings

➤ Tap the following buttons in turn:



- Select the required language.
- Press the back button (1) to exit from the menu.

14.2 Programming automatic switch on

Here you can:

- programme, when the machine is to fill and heat up automatically.

The automatic switching on/off can be set either per day or for a special date. If the inputs overlap, a specific date always takes precedence over the weekly programme.

IMPORTANT The following requirements must be met at the time of the automatic switch on:

- The hood is closed.
- The on-site mains disconnector is switched on.
- The water stop cock is open.

Programming automatic switch on

➤ Press the button:



Setting the weekday

1	2	3	4
➤ Activate functions.	➤ Select weekday.	➤ Activate weekday.	➤ Enter the time.
5	6		
➤ Repeat as necessary for the other weekdays.		➤ Save.	

Setting a special date

1	2	3
➤ Activate functions.	➤ Enter the date and time.	➤ Save.



INFO

The date and time of the next automatic activation are displayed when the machine is switched on. However, the machine can be used before this point of time.

14.3 Operating data

Here you can read out all operating data.

Retrieving the operating data

➤ Press the button.



The following operating data is shown on the display.

Commissioning	Date
Next service in ¹	x hours or washing cycles
Total operation hours	x hours
Total washing cycles	x
Total water consumption	x litres
Full washing cycles Energy ²	x
Total energy savings ²	x kWh
Op. hours/day	x hours
Washing cycles/day	x
Water consumption/day	x litres
Remaining capacity water treatment	x litres
Operating hours Master old ³	x hours

INFO The display depends on the facilities of the machine.

➤ Press the back button to exit from the menu.

14.4 Hygiene logbook

In the hygiene logbook you can:

- retrieve all operating conditions, actions, and failures for one day in chronological order.
- retrieve all HACCP and hygiene relevant data.

The list starts with the current date and the first event on this day. Then the following events on that day, and then the events of days before. The most important operating data are summarized at the end of each day.

INFO When the memory capacity is reached, the oldest data is deleted as soon as new data is added.

Accessing the hygiene logbook

➤ Press the button.



⇒ The hygiene logbook display then appears:

- The list starts with the current date and the first event on this day.
- This is followed by the events from the days before.

➤ Press the back button to exit from the menu.

14.4.1 Data transfer to PC (option)

Because the hygiene logbook stores only a limited number of entries, there is also the possibility to transfer the records to a PC and archive them there.

For more information, see the related documents.

¹ An authorised service technician can activate this function.

² only for Energy models

³ when a new display is installed

14.5 Descaling / basic cleaning

14.5.1 Descaling programme

If the machine is operated with hard water without water treatment, the boiler, the machine interior, all water lines and other components may scale.

Grease residues and dirt that remain in the machine can contribute towards an unhygienic interior and can lead to failure of heating elements. Regular removal of these layers is absolutely essential.

Using the descaling programme you can descale the interior of the dishwasher. The water lines and the boiler can only be descaled by an authorised service technician.

For descaling, you need an acid-based descaler suitable for commercial dishwashers. We recommend the Winterhalter Descaler A 70 LS.



Danger

- When handling chemicals, observe the safety precautions and the dosage recommendations on the packaging.
- Wear protective clothing, protective gloves and protective goggles when handling chemicals.

Ideally, start the descaling programme when the machine is empty and switched off. If the machine is already prepared for use, it will automatically empty first.

Only with an external detergent dosing device:



Warning

Development of chlorine gas

If you mix active chlorinated detergent and descaler, chlorine gas is produced. Stop the detergent dosing (e.g. remove the suction tube or switch off the dosing device).

INFO A detergent dosing device built into the machine will be disabled automatically in the descaling programme.

Starting the descaling programme

➤ Tap the following buttons in turn:



⇒ The button flashes while the programme is running.

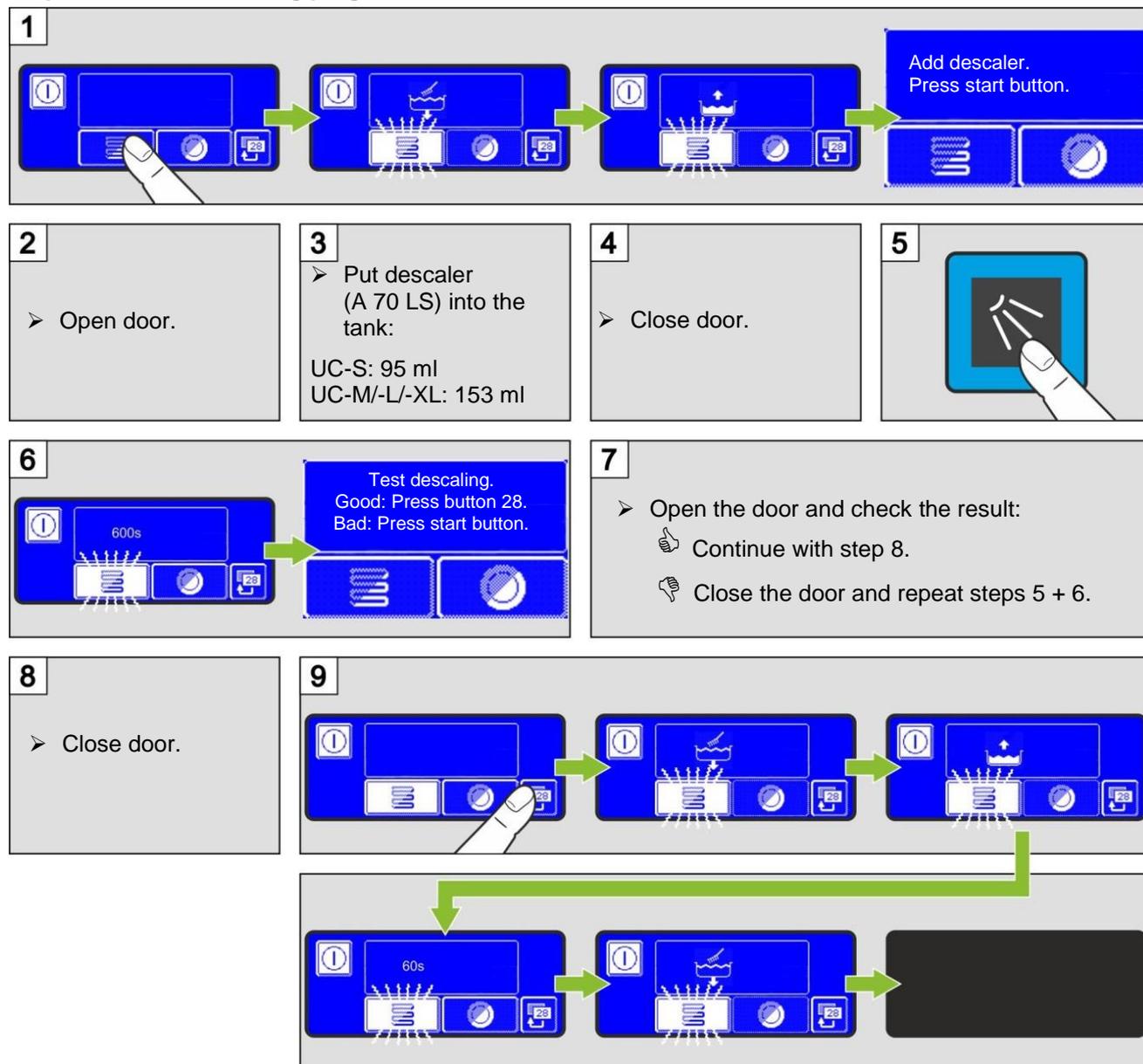


Warning

Descaler causes corrosion

The descaling solution must not remain in the machine. If you switch off the machine when the descaling programme is in progress or if you terminate the programme, the machine must be emptied, refilled and again emptied. Use the self-cleaning programme for this.

Sequence of the descaling programme



14.5.2 Basic cleaning programme

New dishes or new glasses usually have a coating of soiling which can be removed using the basic cleaning programme. The programme can also be used if the dishes are coated with starchy deposits for instance.

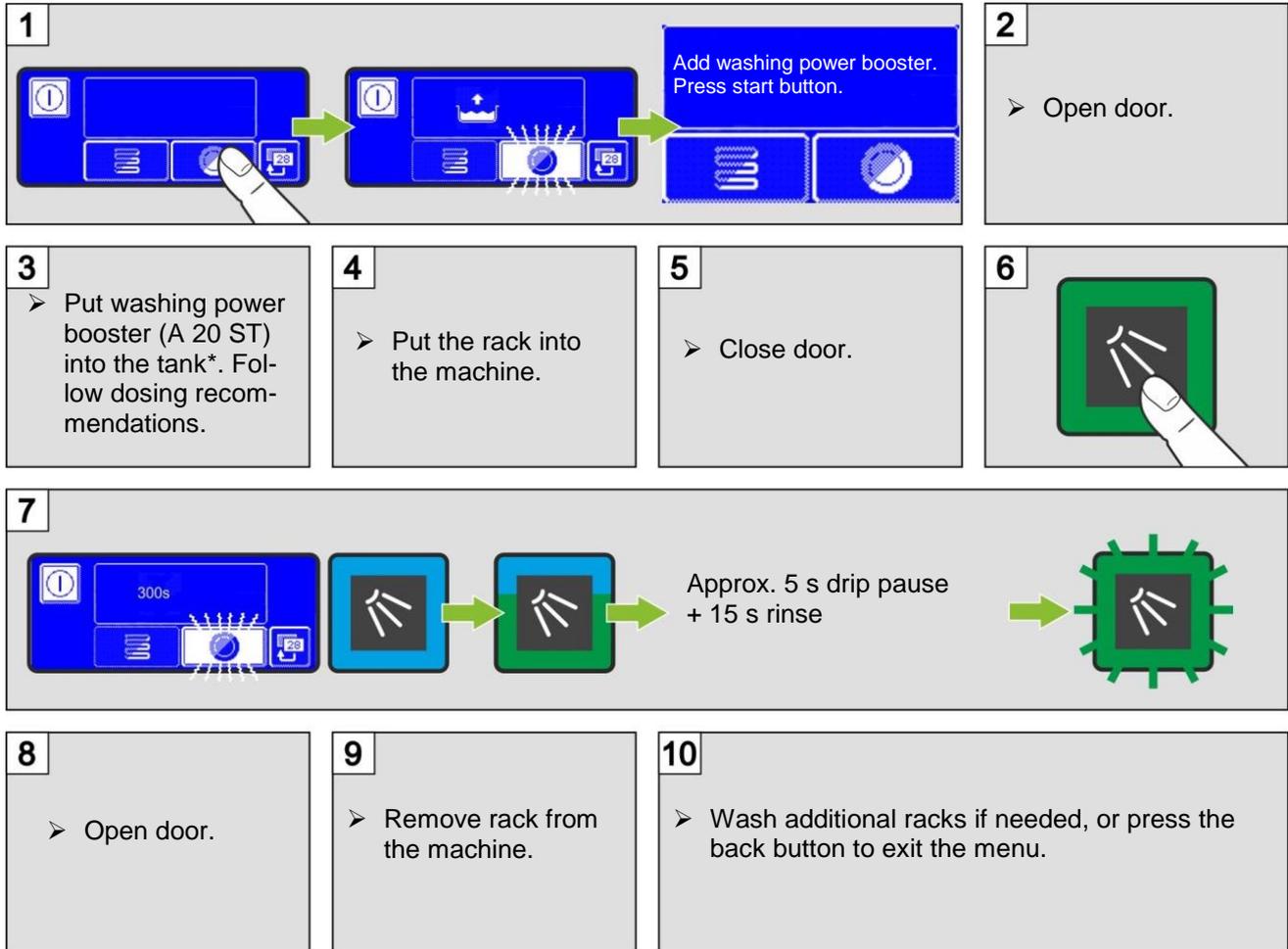
Starting the basic cleaning programme

➤ Tap the following buttons in turn:



⇒ The button flashes while the programme is running.

Sequence of the basic cleaning programme



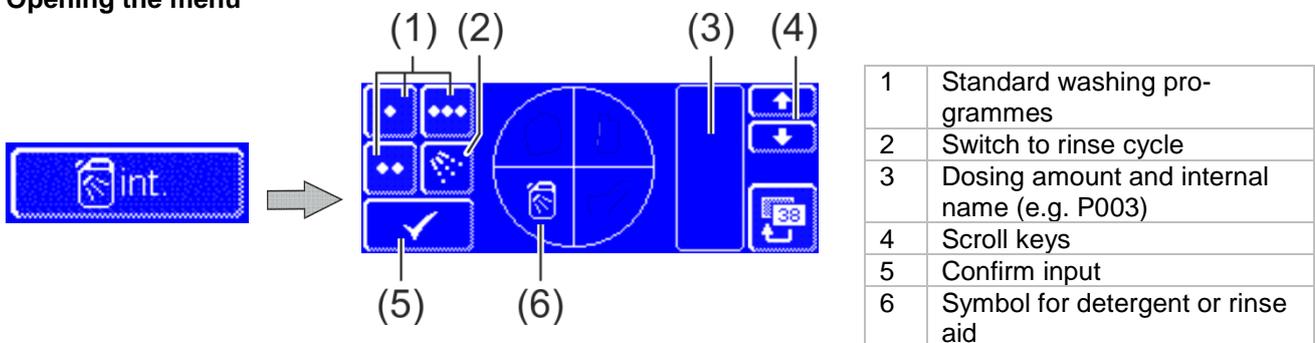
* Tank capacity: UC-S: 9.5 l; UC-M/-L/-XL: 15.3 l

14.6 Changing the amount of detergent / rinse aid

When a new detergent or a new rinse aid is used, it may be necessary to change the dosing amount. Please observe the dosing recommendations on the packing.

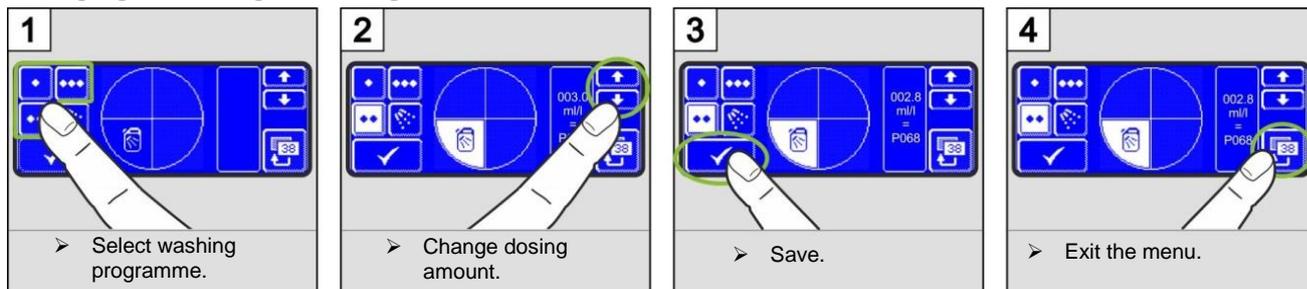
IMPORTANT In the next menu, only the dosing amount of the installed dosing devices is changed. Observe the respective device documents for external dosing devices.

Opening the menu

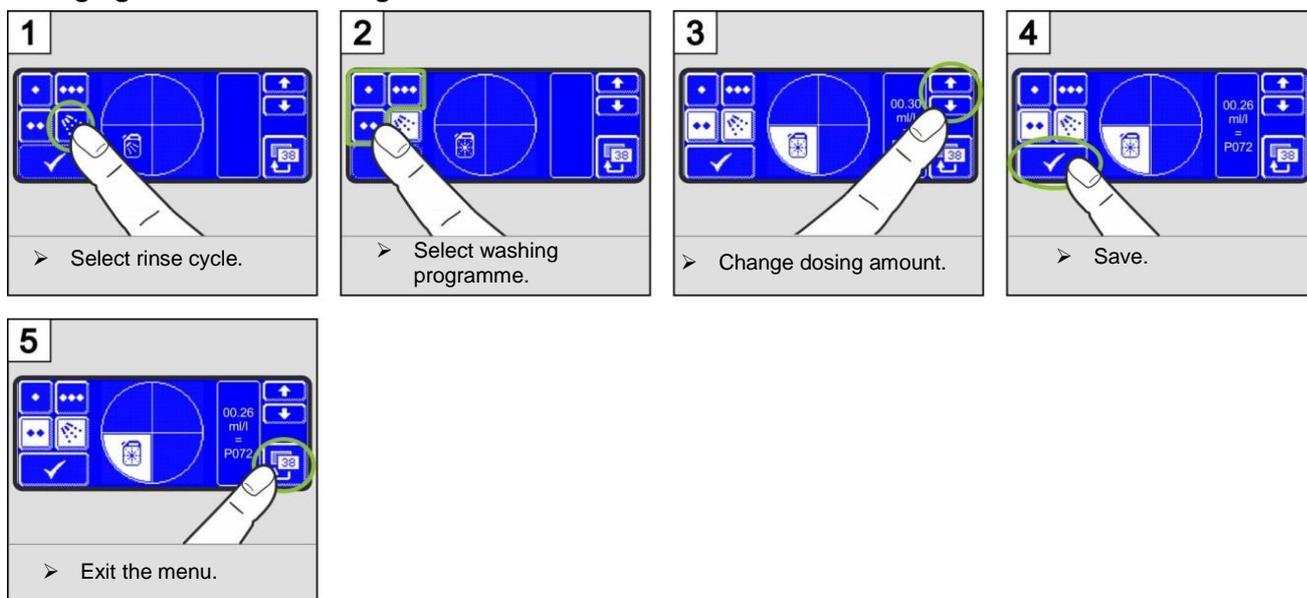


INFO The dosing amounts for each individual washing programme can be set differently.

Changing the detergent dosing amount



Changing the rinse aid dosing amount



14.7 Resetting the water back-flow counter



The water back-flow counter must be reset if this symbol flashes on the screen of machines with an external partial or full demineralisation unit.

- Contact an authorised service technician to exchange the external partial or full demineralisation unit.

Resetting the water back-flow counter

- Tap the following buttons in turn:



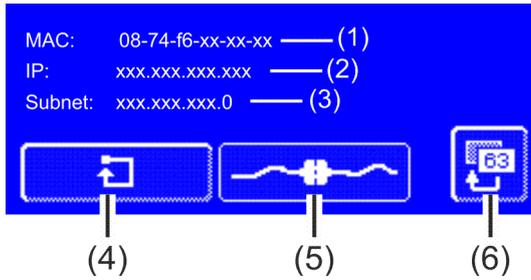
- Press the back button to exit from the menu.

14.8 Checking the connection (only for CONNECTED WASH)

If you have a CONNECTED WASH machine, you can use this menu to check the connection status of your machine or retrieve the connection details (e.g. the IP address of the warewasher).

Opening the menu

➤ Tap the button.



Item	Description
1	MAC address of the warewasher
2	IP address of the warewasher
3	Subnet mask
4	Button for gateway reset
5	Connection status:  = connection to network established  = connection to network not established
6	Back button

Gateway reset

The following factory settings are restored by pressing the button (4):

- Winterhalter server: europe-hub1.winterhalter.biz
- IP settings: DHCP
- Login for the web configuration screen: Username “admin” and password “admin”

If a connection cannot be established, please refer to the information in our FAQ: <http://www.connected-wash.biz/faq>. Here you can also find an analysis tool that helps you with troubleshooting.



15 External dosing devices

Instead of the integral dosing device, external dosing devices can also be used. Follow the instructions in this section. Additional information can be found in German and English on the Winterhalter web site (Dosiertechnik / Dosing systems).

15.1 Terminals



Danger

Danger to life. Live components.

Get the dosing devices installed and commissioned by an authorised service technician. Disconnect the machine from the mains and check that machine is de-energised.

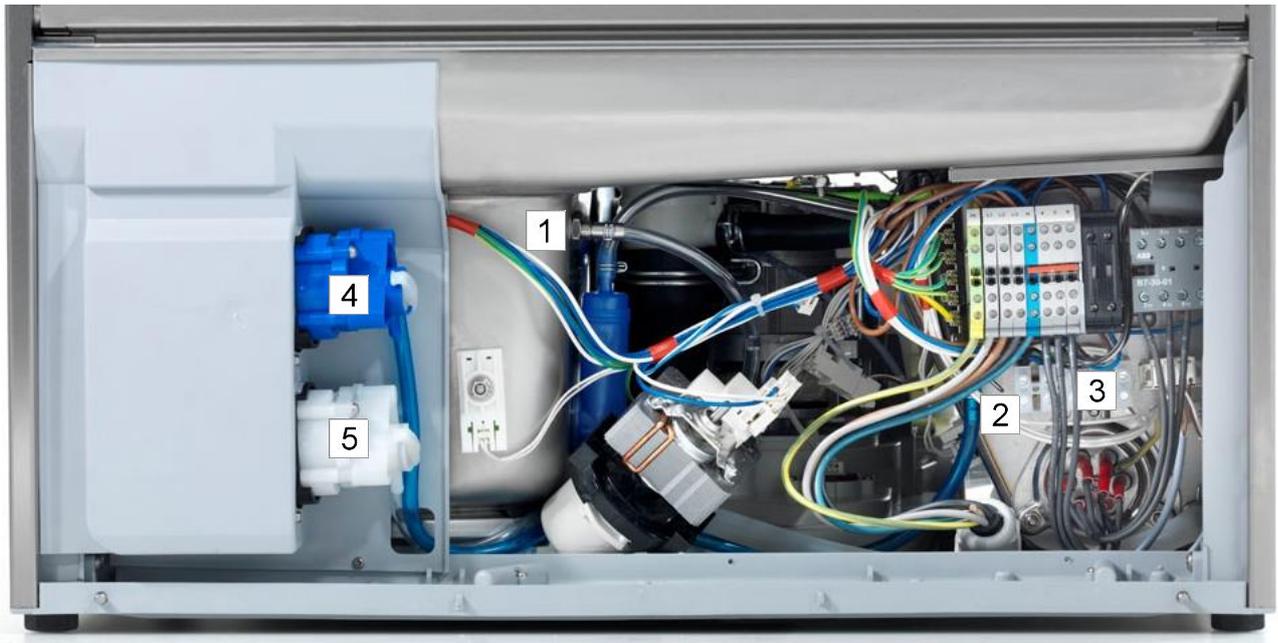


Image of a UC-L

- 1 Detergent; transparent hose
- 2 Rinse aid (UC-S: behind the back wall of the machine); blue hose
- 3 Take-over strip for the connection of external dosing devices (see also section 15.3)
- 4 Rinse aid dosing device
- 5 Detergent dosing device

INFO: The dosing devices (Pos. 4 and 5) are not included in the scope of delivery of all machines.

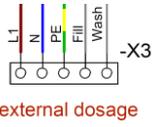


Image of a UC-L

- 6 Inputs for detergent and rinse aid hoses if the storage containers are located outside the machine

15.2 Electrical connection

IMPORTANT maximum current drain at the transfer strip: 0.5 A.

	Terminal	Voltage is on	Condition	Restriction	Setting
 <p>external dosage</p>	L1	continuous voltage			
	N				
	Wash	while the circulating pump is running	a)	c), d), e)	
	Fill	while the machine is filling parallel to solenoid valve	a), b)		P704 = 0
		– while the machine is filling – during rinsing	a)	c)	P704 = 1
	in parallel with the rinse pump during rinse cycle	a), b)	c), d), e)	P704 = 4	

- a) door closed
- b) minimum water level in the tank
- c) not in the self-cleaning programme
- d) not while the machine is filling
- e) not in descaling or basic cleaning programme

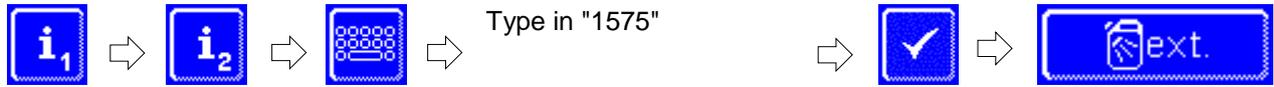
Connecting an external detergent dosing device

<p>Example 1: Hose pump with time-delay relay and fixed output</p> <ul style="list-style-type: none"> ➤ Connect to “Wash” terminal. ➤ Set time-delay relay on the dosing device. 	<p>Example 2: Hose pump with adjustable output</p> <ul style="list-style-type: none"> ➤ Connect to “Fill” terminal. ➤ Set P704=1. ➤ Set output on the dosing device. 	<p>Example 3: Hose pump with fixed output (e. g. ESP 166, ESP 166C, SP 166Z)</p> <ul style="list-style-type: none"> ➤ Connect to “Fill” terminal. ➤ Set P704=2. ➤ Set both potentiometers to maximum. ➤ Set dosing amount on the machine. ➤ If the capacity is not equal to 166 ml/min, set P706 (see service instructions).
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15.3 Setting parameters

Retrieving the settings

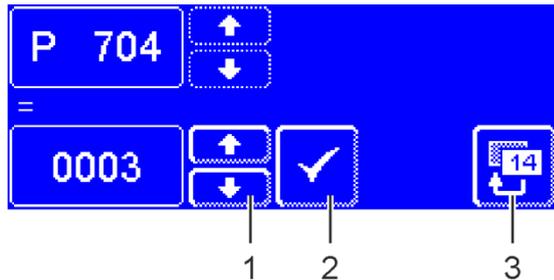
➤ Tap the following buttons in turn:



Type in "1575"

INFO

Incorrectly entered digits can be corrected with the ← button.



- Using the scroll buttons (1), set the value of parameter P704.
- Press the button (2) to save your input.
- Press the back button (3) to exit from the menu.

16 Integrated operating instructions

The integrated operating instructions gives a brief description of the operation of the machine.

Retrieving the integrated operating instructions

➤ Tap the following buttons in turn:



17 Taking the machine out of service for a longer period of time

Adhere to these instructions if you need to take the machine out of service for a longer period of time (annual factory closing, seasonal operation).

- Drain the machine using the self-cleaning programme (► 10.1.2).
- Clean the machine as described in point 10.1.3 + 10.1.4.
- Leave the machine door open.
- Close the on-site water supply stop cock.
- Switch off the on-site mains disconnecter.

If the machine is installed in a room which is not frost protected:

- Have the machine made frost-proof by a service technician authorised by Winterhalter.

Putting the machine back into service

- Open the on-site water stop cock.
- Switch on the on-site mains disconnecter.
- Switch on the machine.

18 Putting the machine back into service after a long period of disuse

- Open the on-site water stop cock.
- Switch on the local mains disconnecter.
- Close door.
- Switch on the machine.

If the machine was in a place that was not frost-free:

After extended periods of disuse, the machine must be completely climatized (at least 24 hours at 25 °C). If this requirement is met:

- Contact an authorised service technician to put the machine back into service.

19 Disposal

Contact your dealer so that as many of the materials contained in the machine as possible can be recycled.

20 Technical Information

Voltage	see rating plate
Total connection value	
Fuse	
Minimum flow pressure	see rating plate
Maximum inlet pressure	
Water inlet temperature	

21 Emissions

Noise

The emission sound pressure level at a work station L_{pA} is < 60 dB

K_{pA} : 4 dB

Exhaust air

The ventilation system must be configured in compliance with VDI Guideline 2052.

22 Installation

Instructions for the service technician authorised by Winterhalter or dealer:

- Adhere to the connection diagram.
- The location for installation must be frost-proof so that the water carrying systems do not freeze.
- Align the machine using a spirit level.
- Cancel out any unevenness of the floor using the adjustable machine legs. Placement on three feet is possible if the machine is installed below a worktop.
- When opening the machine door, water vapour escapes. This vapour may cause wood to swell. If furniture adjacent to the machine is made of wood, a steam protection kit must be installed. The same applies if the machine is installed underneath a wooden work surface.

23 Water connection

Notes for the plumber:

- Adhere to the connection diagram with specifications for water inlet temperature and water pressure.
- Connect the machine to drinking water.
- Install a **main stop cock** near to the machine, in an easily accessible position in the water supply line.
- It must not be behind the machine.
- Water safety must be ensured in compliance with EN 61770. Accordingly, the machine can be connected directly to the fresh water pipe without the intervention of any additional protection device.
- Use the supply hose and fine filter located in the dishwashing machine for the water supply. The fine filter prevents particles from the water supply from penetrating into the dishwashing machine and causing rust on the cutlery and in the dishwashing machine.
- Check that the connections do not leak. The supply hose must not be shortened or damaged. Old, pre-existing hoses must not be used again.
- Use the flexible drain pipe located in the dishwashing machine for the water drain. The drain pipe must not be shortened or damaged.
- The dishwashing machine is equipped with a drain pump. The maximum pump height can be found in the connection diagram.
- If the water hardness is more than 3°d total hardness (GH), we recommend connecting a water treatment unit upstream to prevent build-up of limescale in the machine and in order to achieve optimum cleaning and drying results. The service technician authorised by Winterhalter will be happy to offer advice.

24 Electrical connection

Notes for the electrician:



Danger

Risk of fatal injury due to live components.

Disconnect the machine from the mains and check that machine is de-energised.

The machine and its associated ancillaries must be connected by an electrical contractor authorised by the responsible power company, in accordance with locally applicable standards and regulations.

- Adhere to the connection diagram.
- Adhere to the rating plate and circuit diagram.
- Check that all electrical protection systems are fully functional.
- Connect the machine to a protective circuit which has been installed and tested in accordance with the relevant regulations.
- The machine must be connected electrically in compliance with the data on the rating plate.
- Fuse the electrical connection of the machine as a separately fused circuit, as part of the on-site system, using slow-blowing fuses or circuit breakers, in accordance with the total connected load (see rating plate).
- Additional recommendation: In the electric supply line, install a universal current sensitive residual current circuit breaker class B with a tripping current of 30 mA (DIN VDE 0664) as a frequency inverter is located in the machine.
- The machine connection (mains connection cable) should preferably be installed as a fixed connection.
- When the machine must be permanently connected (without a plug), a mains disconnect with all-pole separation from the network must be installed. The mains disconnect switch must have a contact opening width of at least 3 mm, and must also be lockable in the neutral position.
- Machines that are delivered with a power plug must be plugged into an outlet.

24.1 Mains connection cable



Risk of fatal injury due to live components!

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.

The machines of the UC series are delivered with or without mains connection cable.

Requirements to the mains connection cable

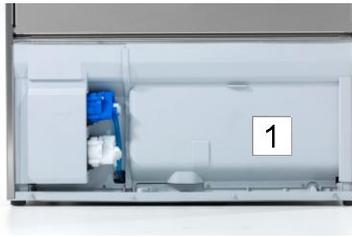
- Use a cable of the type H07 RN-F or equivalent
- Section and number of wires appropriate for voltage, fusing and overall connection value

Connection of the mains connection cable in the machine

Exemplary images for a UC-L



Remove the front cladding
UC-S: additionally remove the right side cladding



Remove the bulkhead (1) towards the electric installation compartment



Insert the mains connection cable through the backside of the machine and guide it to the connection terminals at the front

Strain relief

UC-M, UC-L, UC-XL

Tighten the screwed cable connection in the electric installation compartment

UC-S

Tighten the screwed cable connection at the backside of the machine



Connect the mains connection cable to the terminals PE to N according to the connection scheme. Observe the connection scheme fixed at the bulkhead of the electric installation compartment.

Boiler heating element

The boiler heating element is already connected. However, jumpers must be plugged in, in order not to exceed the fusing values of the mains network.

- Please observe the connection scheme fixed at the bulkhead of the electric installation compartment.

24.2 Bonding connection

Integrate the machine and any plinths and table systems in the on-site equipotential bonding system. The connection points are labelled accordingly.

There is a screw connection point marked with the earth symbol  at the back of the machine, to which the earth lead must be connected.

25 EC Declaration of Conformity

EG-KONFORMITÄTSERKLÄRUNG
EC-DECLARATION OF CONFORMITY

winterhalter®

Wir, We, Nous, Noi, Wij, Nosotros, Nós, My, My, Podjetje, Εμείς η, Mi a, Biz

Hersteller / Manufacturer: Winterhalter Gastronom GmbH
Winterhalterstraße 2–12
DE-88074 Meckenbeuren

erklären in alleiniger Verantwortung, dass das Produkt „Gewerbliche elektrische Spülmaschine“, declare under our sole responsibility that the product "Commercial electric dishwashing machines", déclarons sous notre seule responsabilité que le produit « Lave-vaisselle professionnelle électrique », dichiariamo sotto la nostra piena responsabilità che il prodotto "Sistema di lavaggio elettronico industriale", verklaren als enig verantwoordelijke dat het product „ professionele vaatwasmachine“, declaramos bajo nuestra absoluta responsabilidad que el producto „lavavajillas eléctrico industrial“, Declaramos sob nossa única responsabilidade, que o produto "Máquina de lavar louça comercial elétrica", oświadczamy na własną odpowiedzialność, że produkt „elektryczna zmywarka przemysłowa“, prohlasujeme na vlastnú zodpovednosť, že produkt „profesionální elektrická myčka“, na lastno odgovornostjo izjavlja, da je izdelek „Profesionalni električni pomivalni stroj“, δηλώνουμε αποκλειστικά με δική μας ευθύνη, ότι το προϊόν „Επαγγελματικό ηλεκτρικό πλυντήριο πιάτων“, felelősségünk teljes tudatában kijelentjük, hogy a termék „Professzionális elektromos mosogatógép“, olarak yegane sorumlugumuz dahilinde beyan ederiz ki Sanayi bulasic Makinesi

Typenbezeichnung / Model: UC-S *, UC-M *, UC-L *, UC-XL *
Warenzeichen / Trademark: Winterhalter

Explanation of the models UC-S *, UC-M *, UC-L *, UC-XL *:

The "*" denotes the available options of the models:

- Cool
- Energy
- Excellence-i
- Excellence-i+

auf das sich diese Erklärung bezieht, mit den folgenden Normen übereinstimmt:

to which this declaration relates is in conformity with the following standards:
auquel se réfère cette déclaration est conforme aux normes :
al quale fa riferimento la presente dichiarazione, è conforme alle seguenti norme :
waarop deze verklaring betrekking heeft, met de volgende normen in overeenstemming is:
al que se refiere esta declaración, cumple las siguientes normas :
ao qual esta declaração diz respeito, está em conformidade com as seguintes normas:
do którego odnosi się to oświadczenie, jest zgodny z następującymi normami:
na katero se vztahuje toto prohlášení, odpovídá níže uvedeným normám:
na katerega se nanaša ta izjava, skladen z naslednjimi standardi:
στο οποίο αναφέρεται αυτή η δήλωση, συμφώνει με τα ακόλουθα πρότυπα:
amihez kapcsolódóan ezen nyilatkozat megfelel a következő szabványoknak:
aşadaki standartlara uygundur:

EN 60335-2-58:05 + A1:08 + A11:10
EN 60335-1:12 + A11:14/AC:14
EN 55014-1:06 + A1:09 + A2:11
EN 55014-2:15

EN 61000-3-2:14
EN 61000-3-3:13
EN 61000-3-11:00
EN 61000-3-12:11
EN 62233:08

gemäß den Bestimmungen folgender Richtlinien:

following the provisions of Directives:
selon les conditions des directives suivantes :
Al sensi alle disposizioni previste dalle seguenti direttive :
volgens de bepalingen van de volgende richtlijnen:
conforme a las disposiciones de las siguientes directivas:
de acordo com as disposições das seguintes directivas:

zgodnie z postanowieniami następujących dyrektyw:
na základě ustanovení následujících směrníc:
in je skladen z določili naslednjih direktiv :
σύμφωνα με τους κανονισμούς των ακόλουθων Οδηγιών:
enligt följande riktlinjers bestämmelser:
a következő Irányelvek rendelkezéseinek:
aşadaki Direktif hükümlerine uygundur:

2006/42/EC/MD (Machinery Directive);
2014/30/EC/EMC (Electromagnetic Compatibility)

Hinsichtlich der elektrischen Gefahren wurden gemäß Anhang I Nr. 1.5.1 der Maschinenrichtlinie 2006/42/EC die Schutzziele der Niederspannungsrichtlinie 2014/35/EC eingehalten.

With respect to potential electrical hazards as stated in appendix I No. 1.5.1 of the machine guide lines 2006/42/EC all safety protection goals are met according to the low voltage guide lines 2014/35/EC.
Conformément à l'annexe I N° 1.5.1 de la Directive "Machines" (2006/42/EC) les objectifs de sécurité relatifs au matériel électrique de la Directive "Basse Tension" 2014/35/EC ont été respectés.
Con respecto al potencial peligro eléctrico como se indica en el apéndice I No. 1.5.1 del manual de la máquina 2006/42/EC, todos los medios de protección de seguridad se encuentran según la guía de bajo voltaje 2014/35/EC.
Güvenlik hedefleri uyarınca Makine Direktifi 2006/42 / EC deki EK No. 1.5.1 ile ilgili olarak, Düşük voltaj Direktifi 2014/35 / EC uygundur

Name und Anschrift der Person, die bevollmächtigt ist, die technischen Unterlagen zusammenzustellen:

Name and address of the person authorised to compile the technical file:
Nom et adresse de la personne autorisée à constituer le dossier technique :
Nome e indirizzo della persona autorizzata a costituire il fascicolo tecnico:
Naam en adres van degene die gemachtigd is het technisch dossier samen te stellen:
Nombre y dirección de la persona facultada para elaborar el expediente técnico:
Yetkili kişinin İsmi/Ünvanı:

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Anbringung der CE Kennzeichnung / CE Marking date:
2009



Bernhard Graeff
Technical Manager

Meckenbeuren, 20.04.2016

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