

PT Series Translation of the original operating instructions

Та	Table of contents					
1	Intro	oduction	. 4			
	1.1	About these operating instructions	4			
	1.2	Copyright	4			
	1.3	Proper use	4			
		Improper use				
		Symbols used				
2		eynisee deed				
-		Operator obligations				
		User obligations				
	2.3					
	2.4	5	7			
	2.5	Electrical dangers	7			
	2.6	Thermal dangers	7			
	2.7	Handling of chemicals	7			
	2.8	Safety settings	8			
	2.9	Maintenance, repair and spare parts	8			
3	Mac	chine description	. 9			
	3.1					
	3.2					
	3.3					
	3.5					
	3.6					
	3.7	Suction tube with level control				
	3.8	Technical data	14			
4	Sof	ftware	. 15			
	4.1	Dishwashing staff menu	15			
	4.2	Chef menu	15			
		4.2.1 Hygiene logbook				
		4.2.2 Operating data				
		4.2.3 Water hardness	17			
		4.2.4 Dosage 4.2.5 Timer	17 19			
	-	4.2.6 Pictograms				
		4.2.7 Basic cleaning				
		4.2.8 Descale				
	4	4.2.9 Brightness	23			
		4.2.10 Sounds	23			
		4.2.11 Date / time	23			
		4.2.12 Language				
		4.2.13 Units				
		4.2.15 Water back-flow counter				
5		mmissioning				
J						
	5.1	Installing the warewasher				
		Connecting the warewasher				
		5.2.2 Electrical connection				
	0		- 1			

	<u> </u>		12
	G		

	5.3	Multifunction interface overview	29
	5.4	Mechanically connecting suction tubes	
	5.5	Establish the electrical connection of the suction tubes	
	5.6	Establish the electrical connection of the external dosing devices	
	5.7	Configuring the transfer strip	
	5.8	Connecting the external energy management system	
	5.9	Before working with the warewasher for the first time	
6	Ope	ration	
	6.1	Switching on the warewasher	35
	6.2	Checking for completeness	35
	6.3	Washing	35
	6.4	Opening/closing the hood (automatic hood option)	38
	6.5	Unlock the hood (automatic hood optional)	38
	6.6	Soaking programme	39
	6.7	Changing the tank water	40
	6.8	Switching off the warewasher	40
7	Noti	fications	. 41
	7.1	Pictograms	41
	7.2	Displaying the error code for a serious error	42
	7.3	Poor wash result	43
8	Clea	ining and maintenance	. 44
	8.1	Cleaning the warewasher during operation	44
	8.2	Cleaning the warewasher at the end of the working day	44
	8.3	Topping up the regeneration salt	47
	8.4	Replacing the canister	48
	8.5	Changing the chemicals	49
	8.6	Descaling the warewasher	49
	8.7	Maintenance by the customer service department	49
9	Disa	issembly and disposal	. 50
	9.1	Taking the warewasher out of operation for long production stops	50
	9.2	Disassembly	50
	9.3	Disposal	50
10	Ann	ех	. 51
	10.1	Declaration of Conformity	51

1 Introduction

1.1 About these operating instructions

This operating manual constitutes a component of the warewasher and must be stored in a place that is accessible to the user. To be able to work safely with the warewasher, the safety and operating instructions provided must be observed. Compliance with the valid national accident prevention regulations and general safety provisions must be ensured.

1.2 Copyright

The instructions are protected for the manufacturer by copyright.

The instructions contain guidelines and drawings or parts of drawings of a technical nature, which must not be reproduced, distributed, or used for the purpose of competion without authorisation, nor shared with third parties, either in whole or in part.

The operator of the warewasher is permitted to make copies, in whole or part, expressly for internal use relating to the operation of the dishwasher. The manufacturer is entitled to claim damages for any infringements. Further rights are reserved.

Subject to technical alterations

© 2023 by Winterhalter Gastronom GmbH

1.3 Proper use

- The warewasher is intended only for washing dishes, cutlery, glasses, kitchen utensils, pots, trays, plates, and GN containers for gastronomic and similar use.
- Operate the warewasher with chemicals from Winterhalter. If other chemicals are used, please contact Winterhalter or an authorised customer service team in advance.
- The warewasher is a technical device for commercial use and is not intended for private use.
- Only operate the warewasher as described in these operating instructions.

1.4 Improper use

- Do not wash without a wash rack.
- Do not wash electrical cooking appliances.
- Do not wash parts made of wood.
- Do not wash ashtrays or objects covered with wax.
- Only wash heat-resistant plastic parts and those resistant to alkalis.
- Do not make any changes, additions or modifications without the approval of the manufacturer.
- Winterhalter Gastronom GmbH assumes no liability for any damage caused by improper use of the warewasher.

1.5 Symbols used

- > This symbol indicates an instruction.
 - \Rightarrow This symbol indicates the results of your actions.
- This symbol indicates a list.

Note: Indicates an additional important piece of information.

The following symbol refers to additional information: ▶ page 6

Warning notices have the following layout:



CAUTION

Type and source of danger

- Consequences of danger
 - ➤ Measures to avert the danger.

The danger level is indicated by the signal word.



DANGER

WARNING

The signal word DANGER indicates an immediate danger; ignoring it will lead to serious injury or death.

The signal word WARNING indicates a potential danger; ignoring it may lead to serious injury or death.



CAUTION

The signal word CAUTION indicates a potential danger; ignoring it may lead to minor or moderate injury.



NOTE

The signal word NOTE indicates potential damage to property.

2 Safety notes

Winterhalter Gastronom GmbH assumes no liability or warranty in the event of non-compliance with these safety and operating instructions.

2.1 Operator obligations

The commercial warewasher is used in the restaurant industry and similar businesses (bakeries, butcher's shops, etc.). The operator of the warewasher is therefore subject to the legal obligations for occupational safety. In addition to the warning and safety information in these operating instructions, the operator must comply with the current provisions regarding safety, accident prevention and environmental protection for the area of application of the warewasher. To ensure safe use of the warewasher, the operator must take the following measures:

- Arrange for the warewasher to be connected by authorised technicians according to the locally applicable standards and regulations.
- Provide the user with information on the provisions regarding occupational safety.
- Ensure that only personnel who have read and understood the operating instructions and safety notes and are trained in handling the warewasher and the chemicals work with them.
- Refer users to the safety notes and inform them of potential dangers. Repeat training sessions at regular intervals to prevent accidents.
- Arrange for the Winterhalter customer service team or a specialist dealer to provide instruction in operating and using the warewasher.
- Provide the user with the operating instructions and quick guide.
- Operate the warewasher only when it is in perfect technical and hygienic condition.

2.2 User obligations

In addition to the warning and safety information in these operating instructions, the operator must comply with the current provisions regarding safety, accident prevention and environmental protection for the area of application of the commercial warewasher.

In particular, the user must take the following measures:

- Adhere to the applicable occupational safety regulations.
- Follow the allocated responsibilities for installation, operation, maintenance and cleaning of the warewasher.
- Read the operating instructions and safety notes.
- Only work on the warewasher after receiving training in handling the warewasher and the chemicals.
- Operate the warewasher only when it is in perfect technical and hygienic condition.
- Switch off the warewasher immediately should a malfunction occur.
 Switch the warewasher back on only once the cause of the malfunction has been remedied by an authorised service technician.
- Ensure cleanliness and tidiness around the warewasher.
- Once the work is complete, turn off the on-site water supply.

2.3 Qualification requirements for personnel

Activity	User group	Qualification / training
Connection to the mains supply	Specialist personnel	Authorised electrician or personnel with equival- ent qualification
Installation, initial commissioning, main- tenance, repair, recommissioning	Specialist personnel	Electrician with Winterhalter training or Winterhalter service technician with training as an electrician or personnel with equivalent quali- fication
Operation, cleaning and maintenance in daily use	Adults	Instruction and briefing regarding dangers provided by the operator, based on the operating instructions (quick guide and safety notes)
	Young people over the age of 14	Instruction and briefing regarding dangers provided by the operator, based on the operating instructions (quick guide and safety notes)
		Under supervision
	Children under the age of 14	Not permitted

2.4 Mechanical dangers

- In order to avoid the risk of slipping on wet floors when operating the warewasher, prevent dirt from accumulating on the floor and wear non-slip footwear.
- In order to avoid cutting injuries on sharp metal edges, wear protective gloves for assembly and repair work.
- Rusting foreign bodies inside the warewasher can cause even "rust-free stainless steel" to corrode. Use only undamaged wire grate baskets, rust-free wash items and suitable cleaning utensils to ensure that water pipes are protected from rust.
- In the case of installation and operation in vehicles, follow the additional requirements for unstable surfaces.

2.5 Electrical dangers

- The device many only be connected to the electrical mains supply by a specialist electrical company approved by the energy supplier.
- Work on the electrical system, installation and maintenance work and repairs may be carried out only by qualified specialists. The electrical engineering safety rules must be observed to avoid electrical accidents:
 - Disconnect all poles from the power supply.
 - Secure the machine to prevent it from being switched on again.
 - Ensure that there is no voltage.
 - Earth and short circuit.
 - Cover or cordon off neighbouring parts that are live.
- The electrical safety of this warewasher is guaranteed only if it is connected to a correctly installed protective circuit. Winterhalter cannot be held responsible for damage caused by a missing or broken protective conductor (e.g. electric shock).
- If the mains cable is damaged, it must be replaced by Winterhalter, its customer service team or another qualified person to prevent danger. The mains cable must be a H07RN-F type or equivalent.
- Touching live components can lead to death by electric shock. In the event of a defect or damage to an electrical component / cable or its insulation, switch off the power supply immediately and arrange for repair by a specialist.

2.6 Thermal dangers

- Contact with hot components and surfaces can cause burns.
 - Before installation and maintenance work and repairs, allow the warewasher and surfaces to cool down.
 - Wear protective clothing and gloves.
- When fitting additional devices, lay electrical cables and dosing hoses a sufficient distance away from hot components to prevent damage.
- Do not operate the warewasher below 0°C to avoid damage to the hoses, tank and boiler and prevent functional damage.

2.7 Handling of chemicals

Contact of chemicals with the skin or eyes can lead to severe burns, eye damage and poisoning.

- In the event of contact with the eyes or skin, wash thoroughly with tap water and seek medical attention if necessary.
- Never drink chemicals or wash water or transfer them to other storage containers.
- Wear protective clothing, protective gloves and protective goggles when working with chemicals.
- Observe the danger and safety notes on the canister and safety data sheet.

2.8 Safety settings

The commercial warewasher has been built in accordance with the applicable legal provisions and is safe to operate. Danger areas that cannot be excluded by design are fitted with safety devices.

- Hood limit switch

All safety devices must be present and functional when operating the commercial warewasher. Safety devices must not be changed or modified.

2.9 Maintenance, repair and spare parts

- Only service technicians who have been trained and authorised by Winterhalter are permitted to carry out maintenance work and repairs. Improper maintenance or repairs may cause significant danger to the user, for which Winterhalter cannot assume liability.
- Only original Winterhalter spare parts may be used for maintenance and repairs. If original spare parts are not used, the warranty is invalidated. The information in the spare parts catalogue is definitive in this respect.
- Arrange for an installer or an electrician to remedy on-site water and electricity supply malfunctions. Arrange for other malfunctions to be remedied by an authorised service technician or dealer.

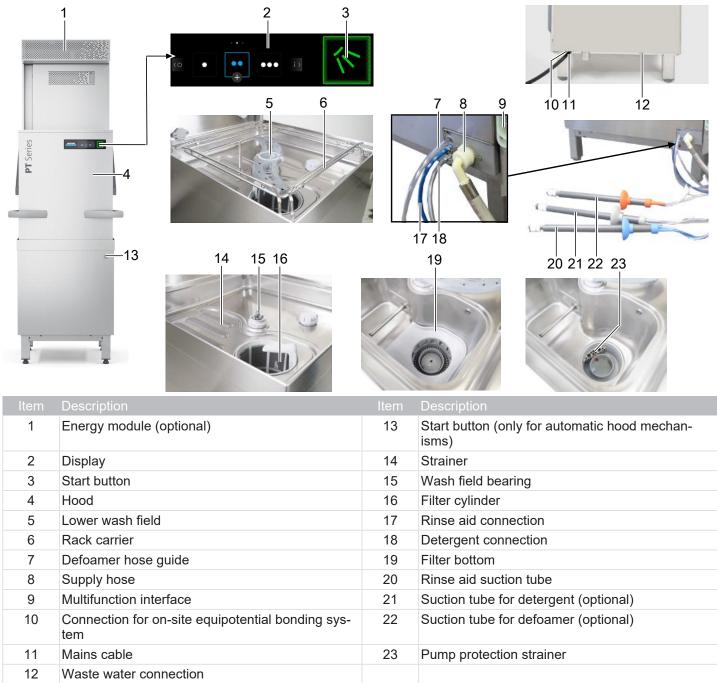
3 Machine description

3.1 Description of function

After the warewasher is switched on, the boiler and the tank are filled and heated up to the operating temperature. Once the target temperatures are reached, the warewasher is ready for use.

The warewasher is fully automatic with programmes consisting of three steps: Wash, Drain and Rinse.

3.2 Overview



Automatic hood start

Closing the hood automatically starts a washing programme. The automatic hood start can be deactivated by an authorised service technician (P572). Every washing programme will then need to be started by pressing the start button.

Automatic hood mechanism (optional for PT-M and PT-L)

The hood opens automatically after every washing programme and can be closed again using the start button on the front cover.

EnergyPlus (optional)

Note: Cold water connection required.

The Energy module above the warewasher includes a fan motor and a heat exchanger. The fan motor extracts the moist, warm air (= vapours) out of the washing compartment and transfers the generated energy to the cold inlet water via a heat exchanger. A waste water heat exchanger provides an additional energy gain.

ClimatePlus (optional for PT-M and PT-L)

Note: Cold water connection required.

The heat pump module above the warewasher includes a fan motor and a heat pump. The fan motor extracts the moist, warm air (= vapours) out of the washing compartment and the area around the warewasher and transfers the generated energy to the cold inlet water via a heat exchanger.

Cool (optional)

Note: Cold water connection required.

The rinse temperature can be changed for warewashers with this option. Glasses are ready to be used again faster with cold rinsing.

Utensil (optional for the PT-L and PT-XL)

Warewashers with this option combine two applications and can wash both utensils (e.g. pots, trays) and dishes. Two tank heaters are installed to maintain the tank water temperature.

Integral water softener (optional)

Warewasher with built-in salt container for regeneration salt. The regeneration salt softens the inlet water and thus prevents a build-up of limescale inside the warewasher and on the items being washed.

PAY PER WASH (optional)



Further information is available on our homepage. www.pay-per-wash.com

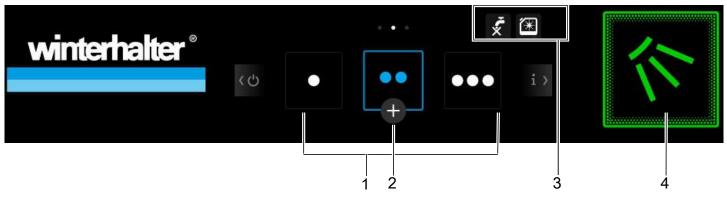
CONNECTED WASH



Further information is available on our homepage. www.connected-wash.com

3.3 Display

Operating the display is similar to operating a smartphone. The display responds to light touches. Therefore, only operate the display with your fingers and do not use any sharp objects. You can also operate the display and start button with wet hands or rubber gloves.



Item	Description
1	Washing programmes
2	Selection of additional programmes
3	Display area for error pictograms
4	Start button

Start button (4)

Colour	Meaning		
No light	Warewasher is switched off.		
Orange	Warewasher is filling and heating up.		
Green	Warewasher is ready for use.		
Flashing green	Washing programme has ended; hood has not been opened yet.		
Blue	Warewasher is washing.		
Flashing blue	Soaking programme is running.		
	Only for warewashers with automatic hood mechanism: The hood moves down, a washing programme then starts automatically.		
Flashing green-blue	Only for warewashers with Energy module or heat pump module: Warm, humid air is being extracted. The washing programme is complete only when the start button flashes green.		
Red	The warewasher has stopped washing because there is a serious error.		

On machines with an automatic hood, the start button on the front panel behaves in the same way as the start button on the display.

Screen saver

The display is dimmed if it is not used for a long time. Washing can also be carried out when the display is darkened.

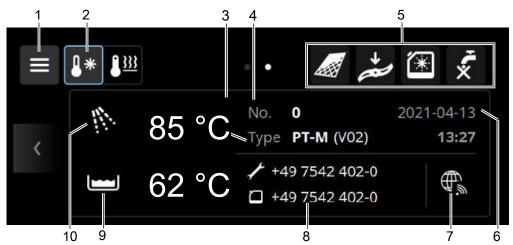
3.4 Washing programmes

The washing programmes differ depending on the type of warewasher, as they are adapted to the respective wash items. The authorised service technician can adjust programmes (temperature, wash pressure, dosing, and programme length). Programme 2 is pre-selected as soon as the warewasher is ready for operation. Additional pictograms are available via the chef menu.

Warewasher type	Programme 1	Programme 2	Programme 3
Dishwasher	Slightly dirty dishes	Moderately dirty dishes	Very dirty dishes
Glasswasher	Delicate glasses	Glasses	Robust glasses
Bistro warewasher	Glasses	Glasses and cups	Plates
Cutlery washer	-	Utlery	-
Utensils (PT Utensil)	Dishes	Utensils	Utensils Plus for heav- ily soiled utensils

Pictogram / additional programme	Meaning
Intensive programme	Longer wash time for heavy soiling
Silence programme	Quieter washing programme that uses reduced wash pressure and longer wash time
ECO programme	Longer wash time with reduced use of resources
Short programme	Shortened wash time with slightly higher detergent consump- tion
Soaking programme	Programme for soaking and dissolving dried-on residues (page 39)
Pictogram / special programme	Meaning
Basic cleaning programme	Menu-guided programme for thorough cleaning of wash items, e.g. to remove starch residues (▶ page 21)
Descaling programme	Menu-guided programme for descaling the inside of the ware- washer (▶ page 22)

3.5 Info menu



Item Description 1 Access to t

1	Access to the dishwashing staff menu / chef menu
2	Cool (optional): switching the rinse water temperature
3	Machine model
4	Machine number
5	Display area for error pictograms
6	Date / time
7	CONNECTED WASH: warewasher is connected to the internet
8	Telephone number for service technician and chemical supplier
9	Current tank temperature
10	Current rinse water temperature

3.6 Chemicals

Operate the warewasher with chemicals from Winterhalter. Contact Winterhalter or an authorised customer service team before using other chemicals.

Rinse aid

Rinse aid is required in order to ensure that water on the wash items runs off as a thin film after washing. This ensures that the wash items dry quickly.

Rinse aid is automatically dispensed using an integrated or external dosing device.

Detergent

A detergent is required to dissolve food residues and dirt on the wash items. Detergent is automatically dispensed using an (optional) integrated or external dosing device.

To avoid damaging the warewasher and to achieve a good wash result:

- Do not use acidic detergents.
- Do not use foaming products (e.g. manual washing-up liquid) for pre-treating the wash items.

Defoamer

Defoamer is necessary if heavy foam formation prevents a good wash result. Defoamer is automatically dispensed using an (optional) integrated dosing device.

3.7 Suction tube with level control



Colour (cover cap)	Canister
Orange	Defoamer (optional)
Grey	Detergent (optional)
Blue	Rinse aid

The float switch (1) can detect a defect in the chemicals and indicates this on the display () page 41).

3.8 Technical data

Description	Note	Unit		Value	
Rack dimensions		mm	PT-M	PT-L	PT-XL
			500 x 500	500 x 500	500 x 500
				500 x 600	500 x 600
Tank capacity	PT Standard, PT EnergyPlus, PT Cool	I	I		
	PT Utensil		- 36		
Noise emission	PT Standard, PT EnergyPlus, PT Cool, PT Utensil	dB(A)	max. 62		
	PT ClimatePlus		max. 70		
	Measurement uncer- tainty	dB	2.5		
IP protection class				IPX5	
Min. water flow pressure	PT Standard, PT Cool, PT Utensil	kPa (bar)		100 (1.0)	
	PT ClimatePlus, PT EnergyPlus			150 (1.5)	
Max. inlet pressure (back pressure)		kPa (bar)		1000 (10.0)	
Flow rate		l/min	min. 4		
Inlet water temperature	PT Standard, PT Utensil	°C		max. 60	
	PT Cool, PT ClimatePlus, PT EnergyPlus			max. 20	

Exhaust air

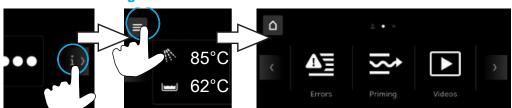
Observe local guidelines, e.g. DIN EN 16282 / VDI guideline 2052 when constructing the ventilation system.

Operating conditions

Name	Unit	Value
Temperature at the installation site	°C	0 - 40
Relative air humidity at the installation site	%	< 95
Storage temperature	°C	> -25
Max. height of the installation location above sea level	m	3000

4 Software

4.1 Dishwashing staff menu



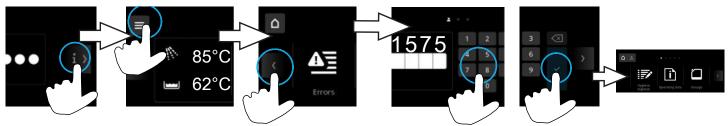
The following menus are available:

Menu	Functions
Error log	List of current errors and history of corrected errors
Priming	Priming the dosing devices
Videos	Instructional videos
Addresses	Addresses of service technicians and suppliers for rinse aid and detergent
PAY PER WASH	PAY PER WASH Enter information and wash codes (optional)

4.2 Chef menu

In this menu the chef can change settings to the warewasher and access information. The warewasher switches off when the menu is accessed. After leaving the menu, the warewasher must be switched back on.

Access the chef menu



A PIN protects the menu from unauthorised access. The PIN is 1575. If you enter your PIN incorrectly three times in a row, input will be blocked for 10 minutes.

Navigation

12 3	4	1	5 △ ≗ ← Hygiene lo	gbook:	
<	Timer Pictograms Basic clear)) ning	12:26 Event 3: M 12:26 Event 2: M 13:25 Event 1: M 13:25 Event 1: M	Aachine switched on Aachine ready for use Aachine switched off Aachine switched on Aachine ready for use	
Item	Description				
1	Continue to the next win	ndow by tapp	ing or "swiping"		
2	Exit the menu				
3	"Chef menu" symbol				
4	Number of windows at the same level				
5	One level back				
6	Scroll up or down				

The following menus are available:

Menu		Menu	
	Hygiene logbook	Ò	Brightness
i	Operating data	•	Sounds
♦₩	Water hardness	₩°	Date / time
	Dosage	ø	Language
۲° ۳	Timer	l	Units
(王)	Pictograms	₽.	CONNECTED WASH
Ô	Basic cleaning	\bigcirc	Water countdown meter
) I I I I I I I I I I I I I I I I I I I	Descaling		

The number of menus depends on the configuration of the warewasher.

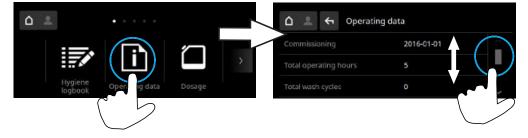
4.2.1 Hygiene logbook

In this menu, the daily operating statuses are shown in chronological order.



4.2.2 Operating data

In this menu the operating data, e.g. consumption values and operating hours, are shown. Water consumption values are reference values and are not based on precise measurements.



4.2.3 Water hardness

Note: Only for machines with an integral water softener.

The water hardness of the inlet water is entered in this menu.

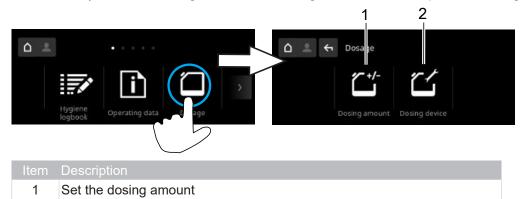


Calculation table

		°dH		°TH	mmol/l
German hardness	1°dH=	1.0	1.253	1.78	0.179
English hardness	1°e=	0.798	1.0	1.43	0.142
French hardness	1°TH=	0.560	0.702	1.0	0.1
mmol/l	1 mmol/l=	5.6	7.02	10.0	1.0

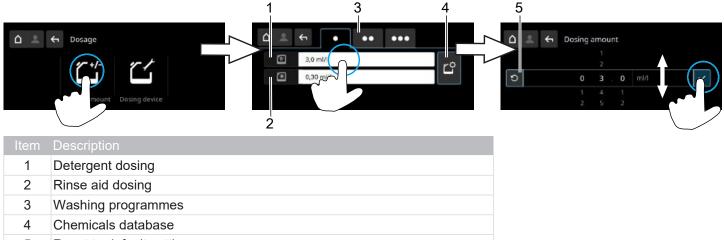
4.2.4 Dosage

In this menu you set the dosing amounts and configure the transfer strip for the dosing devices.



2 Configure the transfer strip ▶ page 33

Setting the dosing amount



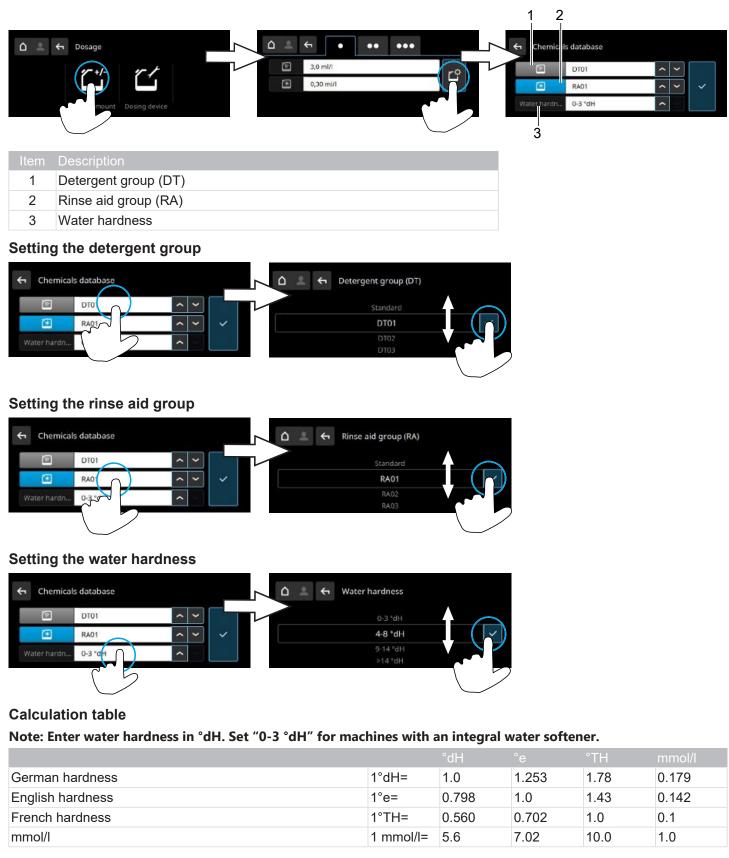
5 Reset to default setting

Note: The defoamer dosage must be set by an authorised service technician.

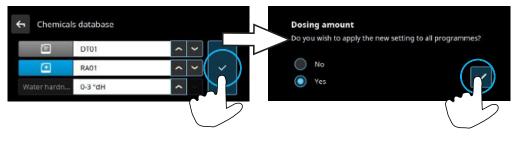
Accessing the chemicals database

When using Winterhalter rinse aid and detergent, the canisters incorporate the information for a detergent group (e.g. DT05) or rinse aid group (e.g. RA01). This information is used as an aid for dosing. However, we recommend that the dosing setting be set precisely by an authorised service technician.

Note: Canisters with "DT" or "RA" information are not available in all countries.



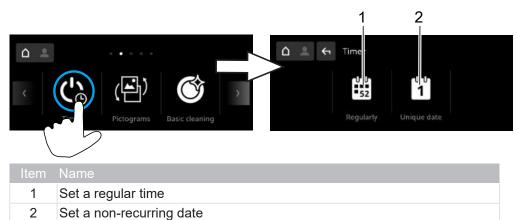
Exit the menu



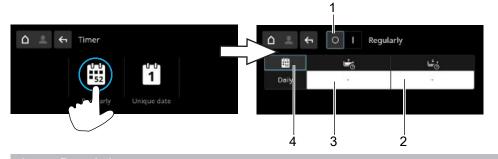
4.2.5 Timer

The timer can be used to programme the warewasher to switch on or off automatically at a specific time. At the time of automatic start-up, the following requirements must be met:

- The hood is closed.
- The on-site mains voltage is switched on.
- The local water supply is open.



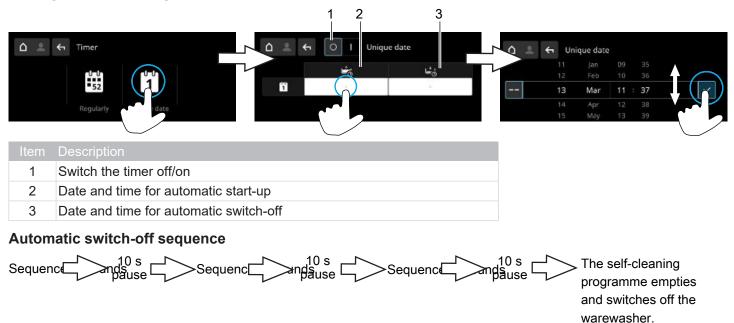
Setting a regular time



Item	Description
1	Switch the timer off/on
2	Time for automatic switch-off
3	Time for automatic start-up
4	Select timer schedule
	– Daily
	– Mon-Fri, Sat-Sun
	 Individual (a different time on each weekday)



Setting a non-recurring date



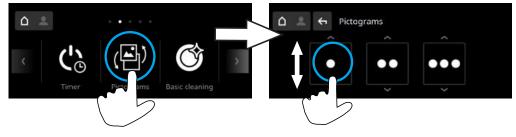
If the hood is open during the automatic switch-off, the warewasher is pumped empty and switched off, but not cleaned on the inside.

Displaying the programmed time



4.2.6 Pictograms

The pictograms for the 3 washing programmes can be changed in this menu.



Changing the pictograms has no effect on parameters such as programme length or temperatures.

4.2.7 Basic cleaning

The menu-guided basic cleaning programme is used for the thorough cleaning of wash items:

- Removal of starch residues from dishes
- Basic cleaning of new glasses
- Removal of residues on glasses

We recommend running the basic cleaning programme at the end of the working day, as the machine's tank is emptied when the programme ends. This programme requires a basic cleaner that is suitable for commercial warewashers. For dishes, Winterhalter recommends the A 20 ST basic detergent, and for glasses the A 25 GL basic cleaner.



WARNING

Risk of chemical burns due to chemicals

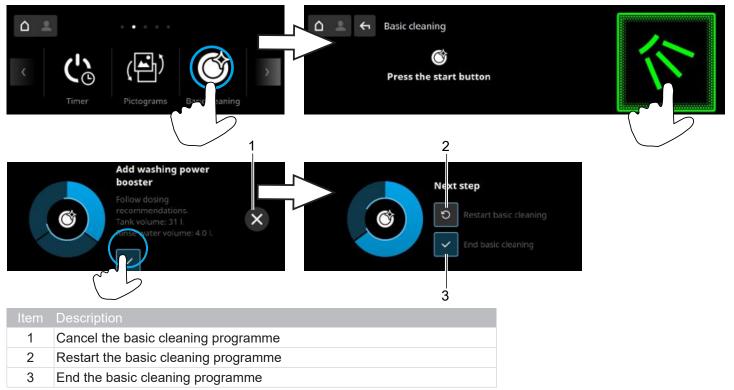
Contact of chemicals with the skin or eyes can lead to severe burns or serious eye damage.

- ➢ In the event of contact with the eyes or skin, wash thoroughly with tap water. If necessary, seek medical attention.
- > Wear protective clothing, protective gloves and protective goggles.
- > Observe the danger and safety notes on the canister and safety data sheet.

Starting the basic cleaning programme

Follow dosing recommendations when adding the basic cleaner. The initial dose for the first use of the programme depends on the machine's tank volume.

The post-dosing for each additional programme depends on the rinse water volume.



4.2.8 Descale

If the warewasher is operated with hard water and without water treatment, then the boiler, the interior of the machine, all the water lines and components may develop scale. Limescale deposits and dirt that remain in the machine can contribute towards hygiene risks, while scaling can lead to failure of heating elements. In case of limescale deposits, the warewasher must be descaled.

The interior of the warewasher can be descaled using the descaling programme () page 22). We recommend running the descaling programme at the end of the working day only, as the machine's tank is emptied when the programme starts and ends.

The water lines and the boiler can only be descaled by an authorised service technician.

For descaling, you require an acid-based descaler suitable for commercial warewashers. Winterhalter recommends A 70 LS descaler.



WARNING

Risk of chemical burn due to contact with descaler

Contact between descaler and the skin or eyes can lead to severe burns or serious eye damage.

- > Wear protective clothing, protective gloves and protective goggles.
- > Observe the danger and safety notes on the canister and safety data sheet.



WARNING

Danger of chlorine gas developing

Mixing active chlorine cleaner and acid-based descaler produces chlorine gas. Contact with chlorine gas leads to eye, nose and throat irritations.

- > Do not mix active chlorine cleaner and acid-based descaler.
- > Ensure good ventilation when you descale the warewasher.

NOTE

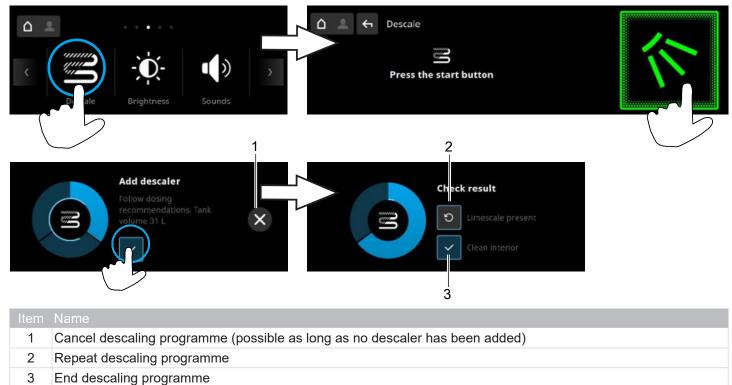
Danger of corrosion due to descaler solution

Descaler solution has a corrosive effect when in contact with metals and plastics for a long time and therefore must not remain in the interior of the machine (e.g. overnight).

> Do not cancel the descaling programme and follow the instructions on the display.

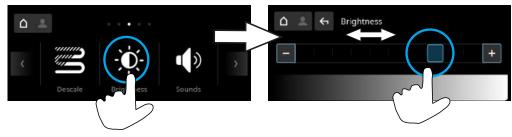
Starting the descaling programme

When adding the descaler, observe the tank volume and dosing recommendation.



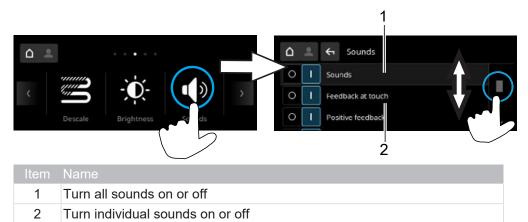
4.2.9 Brightness

In this menu, the brightness of the display is set.



4.2.10 Sounds

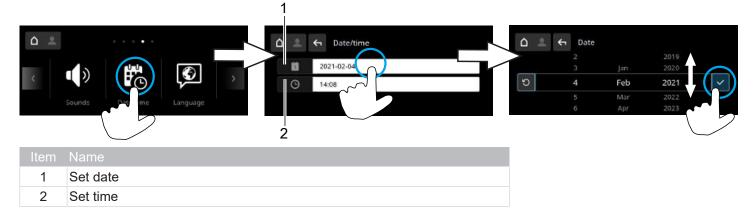
In this menu sounds are turned on or off.



4.2.11 Date / time

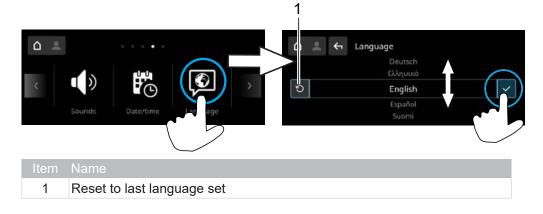
In this menu, the date and time are entered.

Note: Time must be changed for the summer/ winter time changeover.



4.2.12 Language

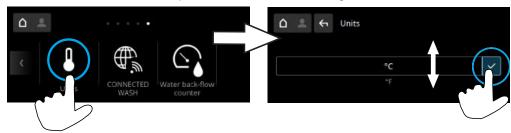
In this menu the language of the display texts is set.



English 4 Software

4.2.13 Units

In this menu the unit and temperature indicator are changed.



4.2.14 CONNECTED WASH

In this menu the link with CONNECTED WASH is configured.



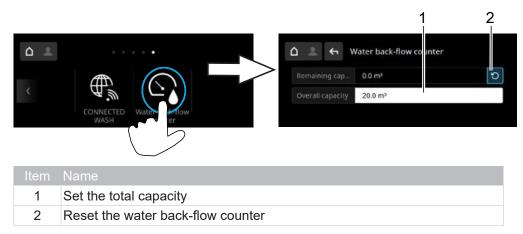
Activating CONNECTED WASH



You will find detailed information and instructions on the website: > page 10

4.2.15 Water back-flow counter

The water back-flow counter must be reset if the set total capacity of an external water treatment device has reached the value "0".



5 Commissioning

5.1 Installing the warewasher

The installation site must be frost-resistant to prevent the water supply systems from freezing.

> Install the warewasher horizontally using a spirit level.

> Adjust any unevenness of the base using the height-adjustable machine feet.

5.2 Connecting the warewasher

The warewasher and any other relevant additional devices must be connected in adherence to local standards and regulations by an electrical company authorised by the relevant electricity supplier.

5.2.1 Water connection

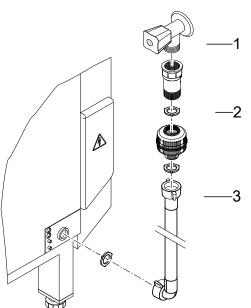
The warewasher must be connected to the fresh water supply via the provided dirt trap, in order to achieve the water safety level pursuant to DIN EN 61770.

The dirt trap prevents particles from the inlet water from entering the warewasher, thus preventing extraneous rust on the cutlery and in the warewasher.

Connecting the supply hose

Important notes:

- The supply hose must not be shortened or damaged.
- Only use the supply hose provided. Old, pre-existing supply hoses must not be re-used.
- Do not kink the supply hose when installing it.



- \succ Connect the supply hose (3) to the warewasher.
- \succ Connect the dirt trap (2) to the local water supply (1).
- > Connect the supply hose (3) to the dirt trap (2).
- Open the water supply (1) and check that the connections are sealed.

Connecting the warewasher to the waste water system



- \succ Connect the waste water hose (1) to the warewasher.
- Guide and connect the waste water hose to the on-site waste water connection.

Requirements for on-site installation

Inlet water connection

Location	approx. 500 mm above finished floor; to the right of the machine			
Construction	Isolation valve with G ¾" external thread			
Inlet water temperature	PT Standard, PT Utensil	max. 60°C		
	PT EnergyPlus, PT ClimatePlus, PT Cool PT Utensil EnergyPlus	max. 20°C		
Water quality	Microbiologically, fresh w	vater must be of drir	nking water quality	
Water hardness		Machines without integrated softener	Machines with integ- rated softener	Note
	PT Standard, PT Cool, PT Utensil	≤ 3 °dH (3.8 °e / 5.34 °TH / 0.54 mmol/l)	≤ 31 °dH (37.6 °e / 53.4 °TH / 5.35 mmol/l)	-
		Recommended, to prevent ware- washer from scaling up.		
	PT EnergyPlus, PT Utensil EnergyPlus	≤ 3 °dH (3.8 °e / 5.34 °TH / 0.54 mmol/l)	≤ 20 °dH (25.1 °e / 35.6 °TH / 3.58 mmol/I)	With a conductivity < 200 µS/cm (128 ppm TDS), a stainless-stee exhaust air heat ex- changer is necessary.
	PT ClimatePlus	≤ 3 °dH (3.8 °e / 5.34 °TH / 0.54 mmol/l)	-	The conductivity must be $\geq 200 \ \mu$ S/cm (128 ppm TDS).
Water flow pressure	PT Standard, PT Cool, PT Utensil	100 kPa (1.0 bar)		
	PT EnergyPlus, PT ClimatePlus PT Utensil EnergyPlus	150 kPa (1.5 bar)		
Max. inlet pressure (back pressure)	1000 kPa (10.0 bar)			
Flow rate	min. 4 I/min			

Waste water connection

Location	approx. 650 mm above finished floor; left or right of the machine	
Dimensions	Ø 40 mm or 50 mm with trap	

5.2.2 Electrical connection

DANGER

Electric shock from live components

A fatal electric shock can occur when the warewasher and its additional devices are connected to the electrical mains supply.

- > The warewasher and its additional devices may be connected to the electrical mains supply only by a specialist company registered within the electrical trade and approved by the energy supplier.
- All locally applicable standards and regulations must be observed during the connection to the electrical mains supply.
- > A protective circuit must be connected properly.
- > The electrical safety of this warewasher is guaranteed only if it is connected to a correctly installed protective circuit.
- > The wiring diagram must be observed.
- > The warewasher may be operated only at the voltages and frequencies specified on the rating plate.
- > For machines delivered without a plug, a fixed connection must be installed as an overriding priority.
- The electrical connection must be secured as a separately fused circuit with slow fuses or circuit breakers. The fuse protection depends on the total connected load of the warewasher. The total connected load is specified on the rating plate of the warewasher.
- > PT ClimatePlus: Local fuse protection via circuit breaker with a C or K rating is necessary.
- If a residual current circuit breaker is provided on-site, we recommend installing a Class B all-current sensitive residual current circuit breaker.
- > Determine the cable cross-section of the mains cable using the following table:

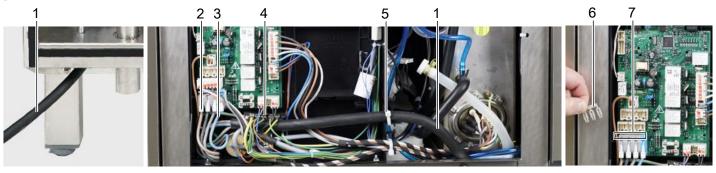
Voltage	Frequency [Hz]	On-site fuse protection [A]	Cable cross-section [mm ²]
380V, 3N~	50	16	2.5
	60		
400 V / 3N~	50	16	2.5
	60	25	4
		32	6
415 V / 3N~	50	15 / 16 / 20	2.5
	60	25	4
		32	6
200 V / 3~	50	25	4
	60	32	6
230 V / 3~ ¹	50	25	4
	60	32	6
230 V / 1N~ 1	50	32	6
	60		
240 V / 1N~ ¹	50	25	4
	60	32	6
		40	10
		50	10

¹ Not for PT Cool and PT Utensil

The mains cable must be a H07RN-F type or equivalent.

Connecting the mains cable

Note: Select the correct cross section and number of wires in the mains cable to suit the on-site voltage and fuse protection.



- > Remove the front cover.
- \succ Insert the mains cable (1) at the rear of the machine.
- > Pull the mains cable (1) out at the front and guide it to the left.
- > Strip the wire ends of the mains cable and attach ferrules.
- Connect the mains cable wires (3) according to the connection diagram (b page 28) and close the quick release connectors (2).
- > If necessary, connect the bridges (6) according to the connection diagram (7) and press in firmly using a screwdriver.
- \succ Connect the green-yellow wire to the distributor of the earth wires (4).
- \succ Fasten the mains cable to the mounting plate using a cable tie (5) for strain relief.

Establishing equipotential bonding



- Connect the warewasher to the on-site equipotential bonding system.
- > Position of the connecting screw (1) see drawing.

Connection diagram

L1 L2 L3 N	L1 L1 L1 N	L1 L2 L3 N	L1 L2 L3 N
3N~	1N~	1N~ I = 40/50 A	
Power Unit Star 30013253	Power Unit Star 30013253	Power Unit Star 30013253	Power Unit Star 30013253

L1 L2 L3 N N bn bk gy bu	L1 L1 L1 N N bn bu	L1 L1 L2 L2 L3	L1 L1 L2 L2 L3
3N~	1N~	230 V, 3~	200 V, 3~
Power Unit Universal 30013252	Power Unit Universal 30013252	Power Unit Universal 30013252	Power Unit Universal 30013252

5.3 Multifunction interface overview

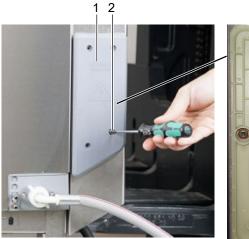


DANGER

Electric shock from live components

A fatal electric shock can occur when the warewasher and its additional devices are connected to the electrical mains supply.

- The warewasher and its additional devices may be connected to the electrical mains supply only by a specialist company registered within the electrical trade and approved by the energy supplier.
- All locally applicable standards and regulations must be observed during the connection to the electrical mains supply.
- > A protective circuit must be connected properly.





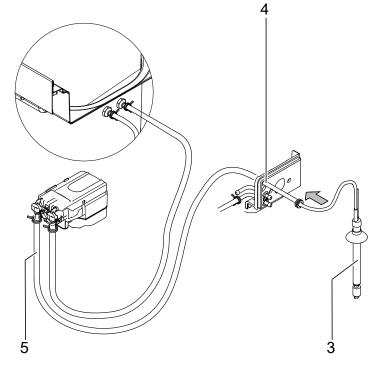
> Loosen the screws (2) and remove the cover (1).

tem Description

- 3 Transfer strip for external dosing devices
- 4 Terminals for rinse aid suction tube
- 5 Terminals for detergent and defoamer suction tube
- 6 Terminals for external energy management system in accordance with DIN 18875 (optional)

5.4 Mechanically connecting suction tubes

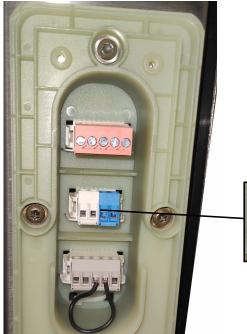


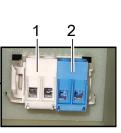


- Fasten the hose of the rinse aid suction tube to the connection (1) using a wire hose clip.
- Fasten the hose of the detergent suction tube to the connection (2) using a wire hose clip.

Guide the hose of the suction tube defoamer (3) through the hose guide (4) and attach it to the dosing device (5) with a wire hose clip.

5.5 Establish the electrical connection of the suction tubes





- Connect the suction tube for the detergent and the suction tube for the defoamer to the terminal (1).
- Connect the suction tube for the rinse aid to the terminal (2).

5.6 Establish the electrical connection of the external dosing devices



DANGER

Electric shock from live components

A fatal electric shock can occur during installation and maintenance work and when carrying out repairs.

4 5

 \succ Isolate and lockout the mains supply to the warewasher.

23

1

Check that there is no voltage present.



Note: Maximum current drain at the transfer strip: 0.5 A. Only connect external dosing devices with their own fuse protection. Include the dosing device in the protective circuit (PE) of the warewasher.

- Disconnect the warewasher from the electrical mains supply and secure against unintended activation.
- > Connect external dosing device to transfer strip.
- > Configure the transfer strip (> page 33).

Item	Name	Note
1	DETERGENT	For detergent dosing device (type-dependent)
2	WASH	For detergent dosing device (type-dependent)
3	RINSE	For rinse aid dosing device
4	Ν	Neutral / phase 2
5	L1	Continuous voltage / phase 1

Depending on the configuration of the transfer strip, voltage is present at the RINSE and DETERGENT terminals.

Terminal	Voltage present	Condition	Restriction
DETERGENT	While machine fills	Hood closedMinimum water level in the tank	
	Parallel to solenoid valve – While machine fills – During the rinse	 Hood closed 	 Not during the self-cleaning programme
WASH	Parallel to wash pump	 Hood closed 	 Not during the self-cleaning programme Not while the machine is being filled Not during the descaling and basic cleaning programme
RINSE	Parallel to rinse pump	 Hood closed 	 Not during the self-cleaning programme Not while the machine is being filled Not during the descaling and basic cleaning programme
	Parallel to solenoid valve – While machine fills – During the rinse	 Hood closed 	 Not during the self-cleaning programme

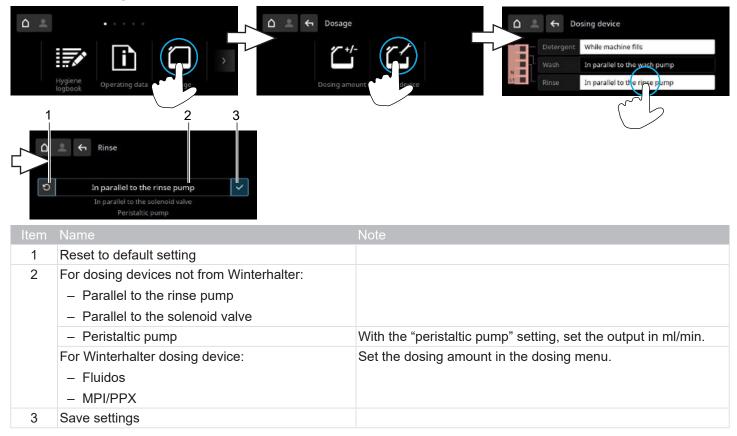
5.7 Configuring the transfer strip

A service technician configures the transfer strip in the Dosing menu, specifying the type of dosing device.

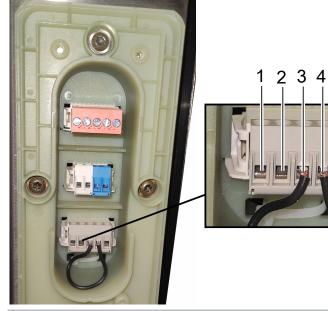
Detergent dosing device

	Hygiene logbook C Detergent While machine fills In parallel to the soleroid valve Peristattic pump	Punt Vice Dosing device Wash In parallel to Pump Rinse In paralle Pump
Item	Name	Note
1	Reset to default setting	
2	For dosing devices not from Winterhalter:	
	 While machine fills 	
	 Parallel to the solenoid valve 	
	 Peristaltic pump 	With the "peristaltic pump" setting, set the output in ml/min.
	For Winterhalter dosing device:	Set the dosing amount in the dosing menu.
	– Fluidos	
	– MPI/PPX	
3	Save settings	

Rinse aid dosing device



5.8 Connecting the external energy management system



Connecting the external energy management system.
 Terminals (1) to (5) are available.

Item	Name	Item	Name
1	Terminal PE	4	Terminal B power request
2	Terminal D neutral	5	Terminal A machine ON
3	Terminal C power release		

5

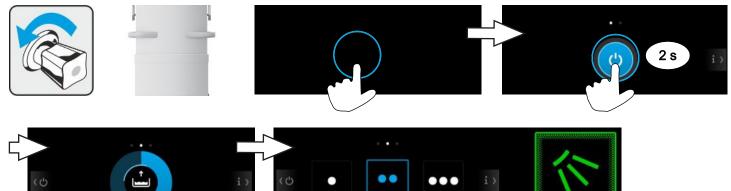
5.9 Before working with the warewasher for the first time

- > Arrange for the warewasher to be set up by an authorised service technician or by your dealer.
- Arrange for the warewasher to be connected by authorised technicians according to the locally applicable standards and regulations (water, waste water, electrical system).
- After connecting the water and the power properly, contact the relevant Winterhalter dealership or your dealer to arrange for commissioning of the warewasher. Arrange for the operator and operating personnel to be trained in operating the warewasher.

6 Operation

6.1 Switching on the warewasher

The warewasher is ready for operation as soon as the start button lights up green.



6.2 Checking for completeness







Note: Ensure that there is always enough detergent and rinse aid available to achieve an optimum wash result.

6.3 Washing



CAUTION

Risk of scalding from hot wash water

- > Do not open the hood during washing.
- Before opening the hood, cancel the washing programme by pressing the start button and wait a few seconds.
- Do not wash without a wash rack.
- Do not wash electrical cooking appliances.
- Do not wash parts made of wood.
- Do not wash ashtrays or objects covered with wax.
- Only wash heat-resistant plastic parts and those resistant to alkalis.

Instructions for a good wash result

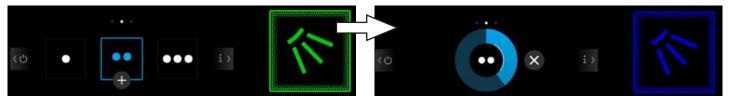
- Soak the cutlery until it is clean. Do not use any foaming pre-cleaners.
- Do not polish glasses, cutlery or dishes. Germs and bacteria can be found even in fresh multi-purpose cloths.
- Wash parts made of aluminium, e.g. pots, containers or trays, only with a suitable detergent to avoid black discolouration.

Arranging the wash items in the wash rack

- Remove large pieces of food residues.
- > Pour out beverage residues (outside the warewasher).
- > Place plates with their upper surface facing forwards.
- > Place glasses, cups, bowls and pots rim down.
- CAUTION! Possible risk of injury from sharp or pointed utensils when loading the wash racks! Wash cutlery upright in the cutlery holder or lying in the shallow wash rack. Always arrange the handle ends downwards. Make sure that the cutlery is well-spaced.
- > Do not overload racks, so that the wash water can reach all dirty surfaces.
- > Space glasses to prevent them from rubbing against each other. This will avoid scratches.
- > For tall glasses, choose a wash rack with appropriate divisions so that the glasses are held in a stable position.

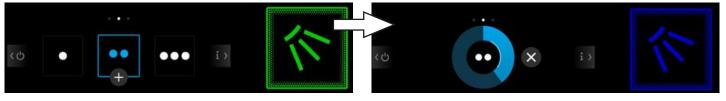
Starting the washing programme with an automatic hood

- Arrange the wash rack correctly.
- > Slide the wash rack into the warewasher.
- > Press the start button on the front cover or hood to close the hood.
 - ⇒ The washing programme starts automatically.
 - ⇒ Start button lights up blue.
 - ⇒ For warewashers with an Energy module or heat pump module, the start button flashes blue-green before the end of the programme. At the same time, the warm and humid air is extracted from the interior and the heat energy stored in it is recovered for the next washing programme.
 - \Rightarrow Start button lights up green and the hood opens as soon as the programme ends.



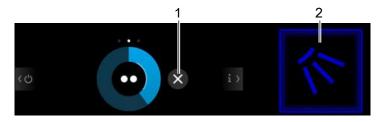
Starting the washing programme without an automatic hood

- > Arrange the wash rack correctly.
- > Open the hood.
- > Slide the wash rack into the warewasher.
- Close the hood.
 - ⇒ The washing programme starts automatically.
 - ⇒ Start button lights up blue.
 - ⇒ For warewashers with an Energy module or heat pump module, the start button flashes blue-green before the end of the programme. At the same time, the warm and humid air is extracted from the interior and the heat energy stored in it is recovered for the next washing programme.
 - \Rightarrow Start button flashes green as soon as the programme ends.
- > Do not open the hood until the start button flashes green.



Operation | 6 | English

Cancelling the washing programme



Wash breaks



\geq Press button (1) or (2).

⇒ The start button lights up green.

- > Do not switch the warewasher off during wash breaks.
- Close the hood to prevent the machine from cooling down.
- Without an automatic hood: Close the hood to the bottom detent position.
- With an automatic hood: To close the hood without starting a programme, press the start button (1) on the front cover for 2 seconds. or
- ≻ Press the "Close hood" button.



Activating an additional programme



The additional programme remains activated until it is deactivated or another additional or washing programme is selected.

Deactivating an additional programme



6.4 Opening/closing the hood (automatic hood option)

There are two options to open the hood and close it without starting a programme (e.g. during idle periods):



Opening and closing the hood using the start button

Press the start button (1) on the front cover for 2 seconds.

Opening and closing the hood via the display

The position of the hood is indicated by the arrows on the pictogram.

> Press the "Open hood" button.



> Press the "Close hood" button.



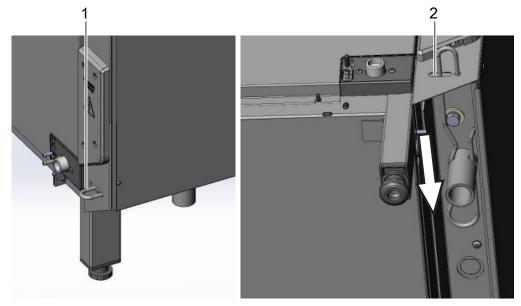
6.5 Unlock the hood (automatic hood optional)

If the hood can no longer be moved, the hood can be unlocked manually.

- > Pull the retaining clip (1) forwards out of the safety mechanism and guide it into the slotted hole (2).
- > Press the retaining clip (1) through the slotted hole (2) in the direction of the arrow.
- \succ Remove the retaining clip (1).
 - \Rightarrow The automatic hood is unlocked.

It is still possible to wash when manually opening and closing the hood. A fault message will appear on the display at the end of each programme.

- Acknowledge the fault message.
- > Contact an authorised service technician for the repair.



6.6 Soaking programme

We recommend the soaking programme for soaking and dissolving dried-on residues.

Activating the soaking programme



The soaking programme remains activated until it is deactivated and can be combined with another additional programme.

Starting the soaking programme



WARNING

Risk of chemical burns due to chemicals

Contact of chemicals with the skin or eyes can lead to severe burns or serious eye damage.

- In the event of contact with the eyes or skin, wash thoroughly with tap water. If necessary, seek medical attention.
- > Wear protective clothing, protective gloves and protective goggles.
- > Observe the danger and safety notes on the canister and safety data sheet.



Five seconds after the soaking programme has started, the wash pump circulates the tank water for seven seconds. The soaking time of five minutes begins after this circulation. The tank water moistens the wash items and soaks the contaminants.

- If you open the hood during this time and close it again within 10 seconds, the wash pump circulates the tank water again for five seconds. The soaking time is not extended.
- If you open the hood for longer than 10 seconds to put more wash items into the wash rack, the soaking programme will start once the hood has been closed. A washing programme starts automatically after the end of the soaking period. The soaking period can also be shortened by pressing the start button.

A service technician can adjust the times mentioned above.

> Remove the wash items only once the washing programme has finished and the start button flashes green.

Cancelling the soaking programme

After cancelling the soaking programme, always start a washing programme to rinse the tank water off the wash items.



Deactivating the soaking programme



6.7 Changing the tank water

Change the tank water if it is very dirty and if the end wash result worsens.

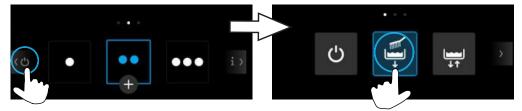
Note: It takes a few minutes until the warewasher is ready for operation again, as the tank is first emptied and then refilled and reheated.



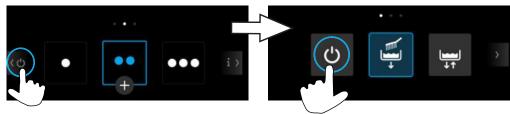


6.8 Switching off the warewasher

We recommend switching off the warewasher at the end of the working day with the self-cleaning programme (> page 45) so that it is cleaned and emptied each day.



Pressing the On/Off button switches the warewasher off. The tank stays filled but will no longer be kept at temperature. If the tank temperature has dropped too much before the machine is switched on again, the machine will be emptied and refilled automatically.



7 Notifications

7.1 Pictograms

Notifications are displayed as pictograms. If there are many notifications, washing will still be possible but the end wash result will be impaired. Please therefore rectify any notification as soon as possible. If you cannot rectify the notification, contact an authorised service technician.

By tapping the pictogram, additional information will appear on the display.

ause / meaning		Remedy	
Lack of rinse aid		Replace the canister and prime the dosing device (▶ page 48).	
Lack of detergent			
Detergent dosing failed		Replace the detergent canister (▶ page 48) and prime the dosing device. If the error is not cleared: Contact an authorised service technician.	
Upper wash field does not rotate		Remove the obstruction or clean or descale the jet (▶ page 44).	
↑		Contact an authorised service technician.	
Lower wash field do	oes not rotate	Ensure the wash field is engaged correctly.	
er an		Remove the obstruction or clean or descale the jet (▶ page 44).	
		Contact an authorised service technician.	
For warewashers w softener: Lack of salt	<i>i</i> ith an integrated	Fill the salt container with regeneration salt. The display disappears after filling the salt container after approx. 3 wash cycles have been completed and some of the salt has dissolved.	
Warewasher with e mineralisation cartr Partial demineralisa used up	idge:	Replace the partial demineralisation cartridge. Reset the water countdown meter (▶ page 24).	
Warewasher with e eralisation cartridge Full demineralisatio up	e:	Have the resin of the full demineralisation cartridge replaced by an author- ised service technician. Reset the water countdown meter (▶ page 24).	
Hood is open		Close the hood.	
Lack of water		Open the water supply.	
		Have the dirt trap cleaned by a service technician or have a new dirt trap in stalled.	
		Have the solenoid valve repaired by an authorised service technician.	
Energy optimisation	n active	Wait until the local energy optimisation activates the warewasher.	
Service interval exp	bired	Contact an authorised service technician.	
Strainer clogged		Clean the strainer and restart the programme.	
Descaling required		Start the descaling programme (▶ page 22).	
24 Tank water exchan	ge recommended	Change the tank water (▶ page 40).	
Tank water has not at least 24 h.	-		
Error in external wardevice	ater treatment	Check the water treatment device.	
Tank heating encru	sted	Clean the tank heating.	
Filter bottom not installed		Insert filter bottom.	

Cause / meaning	Remedy
Note on saving energy	Close the hood.
Error on automatic hood	Follow the instructions on the display.
Various	Tap the pictogram and note the error code. Contact an authorised service technician.

7.2 Displaying the error code for a serious error

If a serious error occurs, washing is no longer possible and a red bar appears at the top of the display:



Accessing the error code



Notifications | 7 | English

7.3 Poor wash result

	Possible cause	Remedy
Wash items not clean	No or low detergent dosing	Set the dosing amount as per the man- ufacturer's specifications (▶ page 17).
		Check the dosing hose (for kinks, breakage, etc.).
		Prime the dosing device (> page 48).
		Replace the canister, if empty.
	Wash items incorrectly arranged	Arrange the wash items correctly (page 36).
	Wash field jets clogged	Remove the wash field and clean the jets (▶ page 46).
	Temperatures too low	Check the temperatures (▶ page 13).
	Tank water too heavily soiled	Start the tank water exchange pro- gramme (▶ page 40).
Spots visible on the wash items	If scaling is present:	Check the external water treatment.
	the water is too hard	Connect the water treatment device.
	For starch residues:	Carry out basic cleaning.
	temperature of manual pre-cleaning is above 40 °C	Lower the temperature of manual pre- cleaning.
The wash items do not dry on their own	No or low rinse aid dosing	Set the dosing amount as per the man-
		ufacturer's specifications () page 17).
		Check the dosing hose (for kinks, breakage, etc.).
		Prime the dosing device.
		Replace the canister, if empty.
	Rinse temperature too low	Contact an authorised service technician.

Note: Water quality affects the washing and drying result. We therefore recommend that, upwards of a total hardness of more than 3 °dH (0.53 mmol/l), the warewasher be supplied with softened water.

8 Cleaning and maintenance

The following materials must not be used for cleaning:

- High-pressure cleaner, steam jet
- Detergents containing chlorine or acid
- Cleaning sponges or wire brushes containing metal
- Abrasives or abrasive cleaning agents

8.1 Cleaning the warewasher during operation

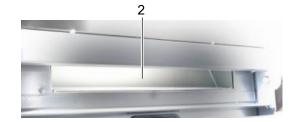


8.2 Cleaning the warewasher at the end of the working day

Cleaning the Energy module

Daily, before emptying the warewasher for warewashers with an Energy module or heat pump module





Cleaning the ventilation grill

- Remove the ventilation grill (1) from the top and wash in the warewasher.
- \succ Refit the ventilation grill (1).

Cleaning the suction channel

- > Open the hood.
- Spray the suction channel (2) with warm water. Use a water hose, not a high-pressure cleaner.

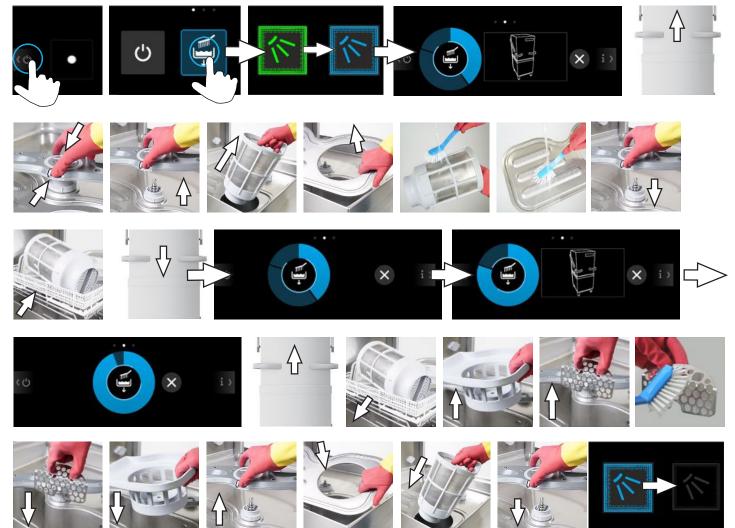
Cleaning the grease filter

- Remove the grease filter (3) from the front and wash in the warewasher.
- \succ Refit the grease filter (3).

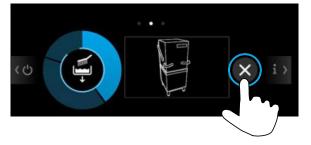
Self-cleaning programme

The self-cleaning programme is helpful for cleaning the inside of the warewasher at the end of the work day. We recommend that you also use A 15 MC cleaning tablets. The A 15 MC cleaning tablets help to remove unpleasant odours and light limescale deposits.

After the first programme step, the self-cleaning programme is interrupted and a video with further steps is shown on the display. If no notice is taken of the video, the self-cleaning programme will start automatically.



Cancelling the self-cleaning programme



Cleaning the warewasher interior

Ensure that there are no rusty foreign objects in the interior of the warewasher, which could cause even "rust-free stainless steel" to corrode. Rust particles can come from non-rust-free wash items, from cleaning aids, damaged wire grate racks or from water pipes that are not protected against rust.

To achieve an optimal wash result and to increase the service life of the warewasher, we recommend cleaning the interior daily.

- \succ Hose down the interior with a water hose.
- \succ Remove dirt with a brush or cloth.

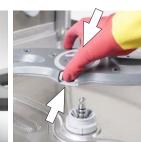
Cleaning the outside of the warewasher

- > Do not spray the warewasher and the surrounding area (panels, floor) with a steam jet or high-pressure cleaner. Ensure when cleaning the floor that the plinth of the warewasher is not flooded, to prevent an uncontrolled inflow of water.
- > Clean the display with a damp cloth.
- > Clean the external surfaces using a stainless steel cleaner and stainless steel polish.

Cleaning the upper and lower wash field







Clean the upper and lower wash field bearing































After cleaning



8.3 Topping up the regeneration salt

Damage to the water softener

Chemicals such as detergent or rinse aid and other salts such as table salt or thawing salt will inevitably damage the water softener.

> Fill only with regeneration salt or a pure evaporated salt with a maximum grain size of 0.4–7 mm.

- > Only fill with water when commissioning the water softener for the first time.
- > Top up the regeneration salt.

NOTE

Note: Danger of rust formation in the filling area as a result of salt residues! After filling the regeneration salt, start a washing programme or the self-cleaning programme in order to wash away any salt residues that may be present. We recommend starting the self-cleaning programme, as salt residues can have a negative impact on the wash result.



WARNING

8.4 Replacing the canister

\triangle

1

Risk of chemical burns when handling chemicals

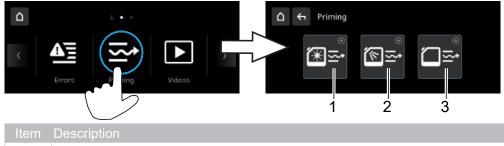
- > Observe the danger and safety notes on the canister and safety data sheet.
- > Wear protective clothing, protective gloves and protective goggles.

A suction tube is needed to suck out the chemicals from the containers.

- Do not place the suction tube for the rinse aid in the container holding detergent defoamer, or vice versa.
- Use the suction tube only with sufficiently stable containers. Narrow and tall containers can tip as soon as the suction tube is pulled.
- Do not pull on the dosing hose or main power cable, as this may lead to a defect.
 - > Wear protective clothing, protective gloves and protective goggles.
 - > Pull the suction tube carefully out of the empty canister.
 - > Check whether both vent holes (1) in the cover cap are open. Clean if required.
 - > Place suction tube in the new canister.
 - > Slide the cover cap slowly downwards until the canister opening is closed.
 - \succ Prime the dosing device.

Priming the dosing devices

The dosing device must be primed if air has entered the dosing hose. This occurs if the canister is not replaced in time.



- 2 Detergent dosing device (optional)
- 3 Defoamer dosing device (optional)

 \succ Press button 1, 2 or 3.

- ⇒ The button turns white.
- \Rightarrow The dosing device is primed.

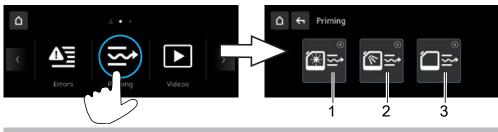
> As soon as the button goes off again, exit the menu.

8.5 Changing the chemicals

Crystallisation can occur as a result of mixing different chemical products, which can damage the dosing device. The dosing device and the dosing hoses must therefore be flushed with water before a new chemical product is used. If this is not done, the Winterhalter Gastronom GmbH warranty and product liability will be void.

➢ Remove the suction tube from the canister and place it in a water-filled container.

> Rinse the dosing device with water via the "Priming" menu.



Item Description

- 1 Rinse aid dosing device
- 2 Detergent dosing device (optional)
- 3 Defoamer dosing device (optional)

Press button 1, 2 or 3.

- ⇒ The button turns white and the dosing device is activated.
- \Rightarrow The dosing hoses and the dosing device are rinsed out with water.
- > As soon as the button goes off, insert the suction tube into the new canister.

➢ Press button 1, 2 or 3 again.

- \Rightarrow The button turns white and the dosing device is activated.
- ⇒ The water in the dosing hoses and dosing device is replaced by the new chemical product.

The dosing must also be reset.

> Use an authorised service technician to continue to attain good wash results.

8.6 Descaling the warewasher

If the warewasher is operated with hard water and without water treatment, then the boiler, the interior of the machine, all the water lines and components may develop scale. Limescale deposits and dirt that remain in the machine can contribute towards hygiene risks, while scaling can lead to failure of heating elements. In case of limescale deposits, the warewasher must be descaled.

The interior of the warewasher can be descaled using the descaling programme () page 22). We recommend running the descaling programme at the end of the working day only, as the machine's tank is emptied when the programme starts and ends.

The water lines and the boiler can only be descaled by an authorised service technician.

8.7 Maintenance by the customer service department

We recommend that you have an authorised service technician carry out maintenance of the warewasher at least once a year so that vulnerable components subject to ageing and wear can be checked and replaced accordingly. Original spare parts must be used for repairs or to replace consumable parts.

Consumable parts include:

- Dosing tubes
- Inlet water hose



Service interval

The warewasher control unit specifies the number of operating hours or wash cycles at which the pictogram for service is shown.

Note: This function is deactivated ex-works. On request, the service technician can activate this function.

9 Disassembly and disposal

9.1 Taking the warewasher out of operation for long production stops

If the warewasher is taken out of operation for long periods (company holidays, seasonal operation), carry out the following steps:

Have the dosing devices rinsed with water by a service technician and allow them to dry. If necessary, observe the dosing device information provided by third-party manufacturers.

- > Use the self-cleaning programme to empty the warewasher.
- Clean the warewasher.
- > Open the hood.
- > Switch off the local water supply.
- > Disconnect the warewasher from the electrical mains supply.
- > Empty the water treatment unit (e.g. partial demineralisation cartridges).

If the warewasher is in a place that is not frost-free, the boiler and, if necessary, the water circuits of the heat pump must also be emptied.

> Instruct an authorised service technician to secure the warewasher against frost.

9.2 Disassembly

- > Remove any wash items and baskets from the warewasher.
- > Empty the warewasher completely.
- > Disconnect the warewasher from the electrical mains supply.
- Disconnect the warewasher from the local water supply.
- Disassemble the table system.
- > Disassemble the exhaust air system, if present.

9.3 Disposal

Incorrect or negligent disposal can cause considerable environmental pollution and/or damage.

- For hazardous substances, please observe the disposal regulations on the safety data sheets.
 - > Disposal according to national regulations.



Declaration of Conformity

αν οι απαιτήσεις προστασίας της οδηγίας περί χαμηλής τάσης 2014/35/ΕΚ, σύμφωνα με το παράς

ect 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 to the low voltage guide lines 2014/35/EC.

chen Gefahren wurden gemäß Anhang I Nr. 1.5.1 der Maschinenrichtlinie 2006/42/EC die Schutzziele der Niederspar EC einoehalten.

winterhalter

s elektrekym proudem były dle Pfilohy I, odst. 1.5.1 směmice o strojnich zařízeních 2006/42/ES dodrženy cile ařízeňch 2014/35/ES.

10.1

2/2

8

Anbringung der CE Kennzeichnung / CE Marking date: 2021

Bernhard Graeff Group Management Commitee Vice President Engineering

Meckenbeuren, 24.03.2021

89014510-01

1/2

to respect 1: Strip obstract 2004.2E/C vortug for us used under the structure of the str Andreas Fischer Director Winterhalter Product & Technology GmbH . tisde und Anschrift der Person, die bevollmächtigt ist, die technischen Unterlagen zusammenzustellen an and address für be person austrised to complete his bechnichtigt hes bechnichtigt an solgtis oschy. Merin je providens, asstancenim fechnické dokumentace: σει τεχνικούς φακέλους intazione tecnica Jaknieka dokum

acão técnica

da pessoa responsável pela compliação da doc sebe, ki je pooblaščena za pripravo tehnične dok ess till den person som är behörig att ställa samr

Recented and set of the set of th

на лицето, упълномощено да съст sse på personen, som er bemyndige

η του ατόμου, το οποίο είναι εξο de la persona facultada para ela a personne autorisée à constitu

és cime:

a adresa osóby oprávnenej na zostavenie technickej c dokúmanlari derlemekle vetkili kisinin adi ve adresi:

Menu

Andreas Fischer Winterhalter Gastronom GmbH Winterhalterstraße 2–12 DE-88074 Meckenbeuren

igalioto parengti techninę dokum , kura ir pilnvarota sastādīt tehnis

obe koja je

V zvezi z revennostmi elektrórega toka am se skladno s točko 1.5.1 priboge 1 k direktiv Evropskega parlamenta o strojih 2006/42/ES držali cijev zalčkte rediskór onkuteroka zistrojacis Nak decigilere elektróska taron tarnigo tuga 1 m 1.5.1 til maskindirektivet 2006/42/EG skydsmällen i lägspalmingsdirektivet 2014/35/EU laktitagits. U veż s električnim opasnostima, u składu s Dodatkom I. br. 1.5.1. Direktive o strojevima 2006/42/EZ, postovani su sigurnosni ciljevi Direktive o niskom naponu 2014/35/EZ. Az elektroma vezetyek tekimeteben a kisteszüttegi berendezésekről szóló 2014/35EK itányelv védelmi céljai a gépercől szóló 20064/3EK itányelv v kistekitetinek 1.5. fortja akigán tetek beárra. Elektros kilamin javogai jyöröty farsesis faminosa elektyvos 2014/35EB saugos tikstai pagal Masim direktyvos 20064/2EB (piedo 1.5.1 punkt, pericoleio electrice, în conformitate cu Anexa I punctul 1.5.1 a Directivei privind echipamentele tehnica 2006/42/CE, au fost respectate obtec-portecie ele Directete privind echipamente electrice de jonat terrulez AN 432/CE Soul dorfzane v sultade s Prilohou I.5.1.5. Riemrice o o electrice intercapensetico, ciele octargi Smentra Smentra/SMES/SOU dorfzane v sultade s Prilohou I.5.1.5. Riemrice o По отношение на електричесите опасности скласно Приложение I, точа 1,5,1 от Дирестивата за нашините 200642EO са илпълнеми целит за защита експеда Оррестивата за искол виременио 14,955C. За защита експеда Претопната за искол виремениота Ганубарста 2014/35FC очепной thu billag I nr. 1,5,1 i Maskindrektivet 200642EC. Attlechā uz elektriskajiem riskiem atbilstoši Mašinu direktīvas 2006/42/EK I pielikuma 1.5.1. punktam ir ievēroti Zemsprieguma direktīvas 2014/35/EK arsteardzības materi Elektriohtude vältimiseks on järgitud masinadirektiivi 2006/42/EÜ lisa I punkti 1.5.1 alusel madalpingedirektiivi 2014/35/EÜ ohutuseesmärke. Elektr I n° DE EN NL NL SV SV

of the use of certain hazardous substances in electrical and electronic equipment) EC dedaration of conformity. ES prohisiseri to shodik Juftwort oruptopeworry. EK Declaración CE de conformidad. Declaración CE de conformida. Di clariarazion CE de conformita. El cuanto de la conformita en la control de la conformita en la control de la conformita en la control de la conformita. El cuanto de la control de EN 61000-3-2:19 EN 62233:08/AC:08 EN 61000-3-3:13 + A1:19 EN 301 489-1 V223 EN 61000-3-11:10 EN 301 489-17 V2.1.1 EN 61000-3-12:10 Original ijantis toliau išvardytų direktyvų nuo i alle disposizioni previste dalle seguenti direttive: s de bepalingen van de volgende richtlijnen: e z postanowieniami nastepujacych dyrektyw: zgodnie z postanowieniami następujących dyrektyw: de acordo com as disposições das seguintes directivas: in je skladen z določili naslednjih direktiv: Wirr, We, My, Eletiç n, Nosotros, Nous, Noi, Wij, My, Nós, Podjetje, Vi, Hue, Vi, Ettevõte, Mi, Mi a, Mes, Mēs, --, My, Biz stoši šādu direktīvu noteikumiem v súlade s ustanoveniami nasledujúc aşadaki Direktif hükümlerine uygundur: uotivn, on no moolov, Emaryralyumic hykripiko mlurunjiko mlaruvi, oonsabildad que el pouduco Javavajilas electrica industriat ina que la poudit « Lave-vaisselle professionnelle electrique », integlità che il poodito "Sistema di lavaggio elettronico industriale". A the product pressione's variant at lavaggio elettronico industriale, vol: 2 a product, peterspone's varianta programatication, vol: 2 a product, eletifyzcan znyvaria przemysłowa -volice, 2 ar podoro Maquina a bavar i rojaciw zoleka, Profesionalni elektricki provinkie erna i föllande erklären in alleiniger Verantwortung, dass das Produkt "Gewerbliche elektrische Spülmaschine", declare under our sole responsibility that the product "Commercial electric dishwashing machines", experience: un requerter l'indextenueurs entrativencea warane natures ansur at productes territeronnessig eletrais provincementatine, et et tabatuait eletraine nadergesmasin, et al consulter service ap protori l'interisonale eletraire prince, tean highengin, hogy a territé, l'interisonale eletranes mosgaladej (eletrane), regentatione eletranes eletranes mosgaladej paziogan, la carradigune s'Protessonale eletranes mosgaladej paziogan, la carradigune s'Protessonale eletranes mosgaladej paziogan, la carradigune s'Protessonale eletranes mostanes paziogan, la carradigune s'Protessonale eletranes mostanes paziogan la carradigune s'Protessonale eletranes mostanes paziogan la carradigune s'Protessonale eletranes eletranes mostanes paziogan eletranes eletranes eletranes eletranes eletranes mostanes paziogan eletranes paziogan eletranes el umývačka riadu". finether summer and provide a commune way and a commune set of the Profesionálna electrică de uz comercial", Profesionálna elektrichá umóriežica :si gnimn EN 55014-1:17 EN 55014-1:17 EN 60335-1:12 + 411:14/AC:14 + A13:17 + A1:19 + A2:19 + A14:19 EN 60335-2:85:05 + A1:08 + A11:10 + A2:15 + A12:16 enligt bestäm ii sensi vyhlasujeme vo výhradnej zodpovednosti, že výrobok "Profesionálna elektrická ur olarak vegane sorumlugumuz dahilinde bevan ederíz ki Sanavi bulasik Makinesi, Winterhalter Gastronom GmbH Winterhalterstraße 2–12 DE-88074 Meckenbeuren ηým normam: λουθα πρότυπα: auf das sich diese Erklärung bezieht, mit den folgenden Normen übereit to which this declaration relates is in conformity with the following standards: kező szabványoknak rele stand patibility Directive) sćim normama: slel a következő szabvár svardytus standartus: no successing are provinced to Undersides.
 Carabade statement natabedulichs strefnic.
 Lopanova par roug concernopatory: row concolublev. Ordinax:
 Conforma a las disposicionis de las signatines forefrases:
 Scontoma a las disposicionis de las signatines (rechrases:
 Scontoma a las disposicionis de las signatines (rechrases:
 Scontoma a las disposicionis de las signatines (rechrases:
 Scontoma a las disposicionis de las signatines (rechrases):
 Scontoma a las contolinos regiones (rechrases):
 Scontoma a las disposicionis de las signatines (rechrases):
 Scontoma a las contolinos regiones (rechrases):
 Scontoma a las disposicionis de las signatines (rechrases):
 Scontoma a las contonis regiones (rechrases):
 Scontoma a contoma a las disposicionis de las contonis supervisionis.
 Scontoma a contoma anteriora:
 Scontoma a contoma anteriora:
 Scontoma a contoma anteriora:
 Scontoma anteriora:
 leclaración, cumple las siguientes non déclaration est conforme aux normes Typenbezeichnung / Model: PT-M, PT-L, PT-XL Warenzeichen / Trademark: Winterhalter sa vzťahuje toto vyhlásenie, vyhovuje nasledujúcim standartiara uygundur. šeni, odpovidá niže uved won, ovyowcí µs ta ak gemäß den Bestimmungen folgender Richtlinien: 2006/42/EC (Machinery Directive) 2014/30/EU (Electromagnetic Compatibil 2014/53/EU (Radio Equipment Directive) 2011/65/EU (Directive on the restriction o EG-Konformitätserklärung ιι zoapovednost, že pru ικά με δική μας ευθύνη. aracija, atitinka tolia izjavlja, da je izdi bajo nuestra absoluta res Hersteller / Manufacturer: 요만있피 咫 듀 ㅌ 单 ㅋ ㅋ 오 않 못 믿 푽 当 ㄹ ᄀ 趷 ᅇ 杘 Researched 288828555588

89014510-01

winterhalter "

Winterhalter Gastronom GmbH Gewerbliche Spülsysteme

Winterhalterstr. 2-12 88074 Meckenbeuren Deutschland

Tel. + 49 7542 402-0

www.winterhalter.de info@winterhalter.de

Winterhalter Gastronom GmbH Commercial Dishwashing Systems

Winterhalterstr. 2-12 88074 Meckenbeuren Germany

Telephone: +49 (0) 7542 4 02-0

www.winterhalter.com info@winterhalter.com