

Operating instructions

for Winterhalter Gastronom dishwasher GS 502

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Declaration of EU conformity

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Operating instructions

For Winterhalter Gastronom Dishwasher GS 502

These operating instructions must always be kept within easy reach of the dishwasher.



Failure to observe this sign can lead to danger to life.



Failure to observe this sign can lead to damage to the dishwasher.



This sign indicates that the use of high pressure cleaners or steam jet cleaners is prohibited.



This sign indicates recommendations and special features.

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1 Intended use

The **Winterhalter Gastronom dishwasher GS 502** may only be used for washing items from the catering industry and related trades. Any change in design or use of the dishwasher carried out without the written permission of Winterhalter Gastronom GmbH, leads to the guarantee and product liability becoming null and void. If damage is caused to the dishwasher due to failure to observe the instructions given in this manual, no claims under guarantee can be made to Winterhalter Gastronom GmbH or any associated companies.

2 Installation and commissioning

Installation of the dishwasher and connection to the customer's water inlet, waste water drainage and electricity connections are to be carried out in accordance with national and local criteria by qualified engineers in accordance with the "Installation instructions for Winterhalter Gastronom dishwasher GS 502".

Main fuses and main switch to be provided by customer.

After proper connection to the customer's water and electricity connections, contact the Winterhalter works representative for your area.

Commissioning (so-called washing in) and instruction in operating the dishwasher is to be carried out by the Winterhalter customer service. For this purpose, use the "Commissioning regulation for Winterhalter Gastronom dishwasher GS 502".

3 Safety instructions



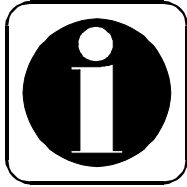
- The dishwasher may only be used once the operating instructions have been read and understood. The operator has receive instruction in the operation and functions of the machine from a Winterhalter customer service representative.
- Only operate the dishwasher in the manner described in this manual.
- In the event of danger or faults, switch the dishwasher off immediately. Switch off customer's main switch. Only then is the dishwasher safe.
- Do not open any machine casings or machine parts if tools are necessary to do so.
- Work on the electrical equipment is only to be carried out by specialist personnel. First disconnect the dishwasher from the mains.



- The water in the dishwasher is not drinking water.
- In the event of faults which are not due to the customer's water or electricity supply, contact the Winterhalter customer services department.
- In the event of a fault of which the cause is unknown, do not switch the dishwasher on again until the cause has been established. If necessary, contact the Winterhalter customer services department
- Only use detergent and rinse additive which are suitable for industrial dishwashers. We recommend the products developed by Winterhalter Gastronom. These are specially developed to suit Winterhalter Gastronom dishwashers. All quantities given refer to Winterhalter Gastronom products. Observe danger instructions printed on packaging.
- During daily cleaning, make sure that no rusting foreign bodies remain inside the dishwasher. This can cause the interior to rust. The rust particles may come from non-stainless items washed, cleaning aids, damaged wire trays or baskets or from supply lines which have not been rust proofed.
- Leave the hood open until the next time you put the machine into operation, so that the inside of the machine can dry out. This is important for long-lasting protection against corrosion, even with high grade stainless steel.
- Protect the dishwasher against frost. Systems carrying water can be damaged if they freeze.
- Do not use normal washing-up liquid. This leads to large amounts of foam building up in the dishwasher.



- The dishwasher is hoseproof. However, do not spray the outside with a high pressure or steam jet cleaner.

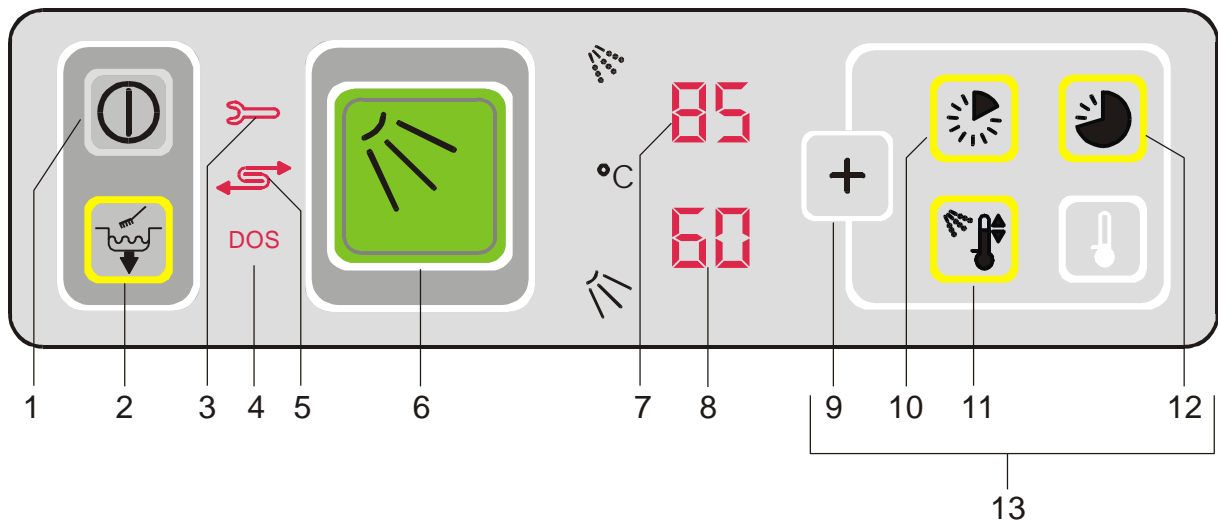


- Check the required FI-residual current operated device for faults regularly according to the regulations by pressing the test button.
- In addition to daily cleaning, we recommend that you have the dishwasher serviced at least twice a year by a Winterhalter customer service engineer.

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4 Operating panel

The operating panel is situated in the upper part of the hood.



- | | |
|---|---|
| 1 On/Off switch | 8 Temperature display - Tank |
| 2 Tank drainage / Self cleaning | 9 Activate special programmes (10-12) |
| 3 Control lamp for fault | 10 Short programme |
| 4 Control lamp for lack of detergent or rinse additive (optional) | 11 Reduced rinse temperature (optional) |
| 5 Control lamp for connected water treatment (optional) | 12 Intensive programme |
| 6 Programme button normal programme | 13 Button area for special programmes |
| 7 Temperature display - Boiler | |

5 Functions of the dishwasher

After the machine is switched on, the dishwasher heats up the water in the boiler. During this heating up phase, the tank is filled in stages with water which is heated simultaneously. The programme button (6) is lit red during the heating up phase. As soon as the pre-set target temperatures for the boiler and tank have been reached, the dishwasher is ready for operation. The programme button (6) is now lit green.

The dishwasher is fitted with an automatic hood start. When closing the hood, slight pressure has to be applied to overcome the hood catch position. The pre-set programme starts as soon as the lid has been closed. When the hood is opened, the pre-set wash programme remains stored. Thus operation can continue immediately with the pre-set wash programme.

The container for rinse additive is stored separately from the dishwasher. Dosage for the rinse additive is controlled automatically by the dishwasher.

Detergent must be added by hand (in the form of powder) or by means of a dosing pump in the case of liquid detergent.

6 Wash programmes

The dishwasher can be operated with various wash programmes. The individual programmes are selected by means of the control panel.

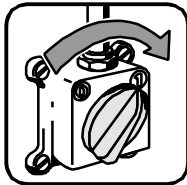
Programme	Description
Normal programme (6)	Normally soiled items .medium drying time Programme duration: approx. 120 sec.
Short programme (10)	Lightly soiled items. Short/no drying time Programme duration: approx. 60 sec.
Intensive programme (12)	Heavily soiled items. Long drying time Programme duration: approx. 240 sec.
3 programmes with reduced rinse temperature (optional)	For washing glasses Programme duration: according to selected wash programme approx. 60/120/240 sec
Tank drainage / self-cleaning (2)	Cleaning of the machine The waste water is automatically pumped off. When the cleaning programme is finished, the dishwasher switches off automatically.

The programme cycle times given are standard settings and may be changed by a Winterhalter Service engineer.

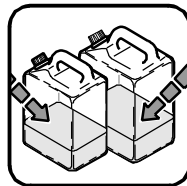
7 Before washing



Turn water stop valve to open position.



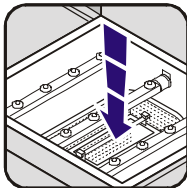
Switch on customer's main switch.



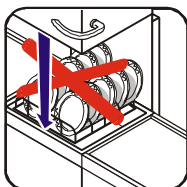
Check level in rinse additive container and detergent container (only with automatic detergent dosage).
Replace or fill up empty containers.



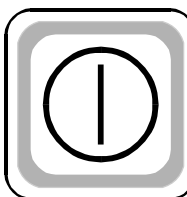
Observe safety instructions on packaging.




Check whether drainage filter, pump suction filter, basket filter and flat filter are installed.




Do not load dishes at this stage.
Ensure Hood is Closed.

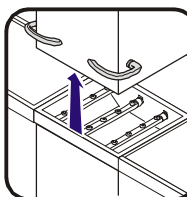


Press On/Off switch (1), heating up phase begins.

Programme button  is lit red: Boiler and tank are both filled and heated up.

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

 Hood must remain closed during filling / heating up.

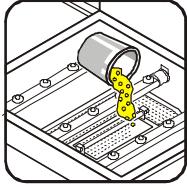


Open hood.

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● Detergent dosage

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



Manual detergent pre-dosage:

Pour detergent powder into basket filter with cup.

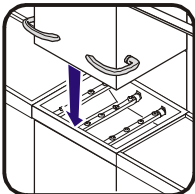
Dosage: Approx. 120g



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



Observe safety instructions on the detergent packaging.



Close hood.



Start normal programme. For this, press button (6).

Detergent powder is mixed with wash water.

The dishwasher is now ready for operation.



Manual addition of detergent :

Manual addition of the detergent powder must be repeated after approx. every 5 wash cycles. Pour 60g of detergent powder into the basket filter. Then start the wash programme.

● Changing the detergent type (liquid product)

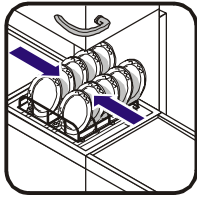
If changing to a different detergent type (even one by the same manufacturer), you must rinse the suction and pressure hoses with fresh water before connecting the new detergent container. Otherwise, the mixing of different types of detergent will cause crystallisation, which may result in a breakdown of the dosing pump. Failure to observe this rule will lead to the loss of guarantee and product liability claims vis-à-vis Winterhalter Gastronom GmbH.

Procedure:

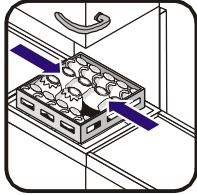
- Remove the suction stick from the empty detergent container and place it in a container filled with fresh water.
- Drain the machine completely and refill it. Then drain it again, since no detergent has been dispensed during this process.
- Insert the suction stick in the new detergent container.

8 Washing

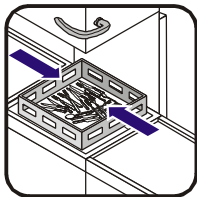
Pre-clean dishes (if necessary pre-wash with spraying nozzle), *place* in wash rack:



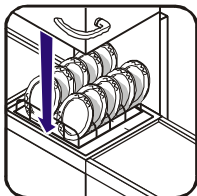
Upper surface of plate facing forward.



Cups and glasses, facing down.



Insert cutlery in one layer only .

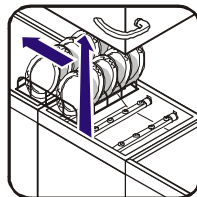


Close hood.



Select wash programme:
Press programme button (6), wash programme starts.
Programme button (6) is lit blue.

Programme button (6) is lit green:
Wash programme completed



Open hood.
Remove rack.



- After the first wash cycle, each further wash cycle is triggered by closing the hood.
- Check basket filter for blockages and clean if necessary. The basket filter can be removed without having to drain the tank first.
- Check tank water for soiling. If necessary, drain and re-fill machine.

● Wash pause

Before closing the hood, *press* function button  in order to cancel automatic hood start.


Close hood.

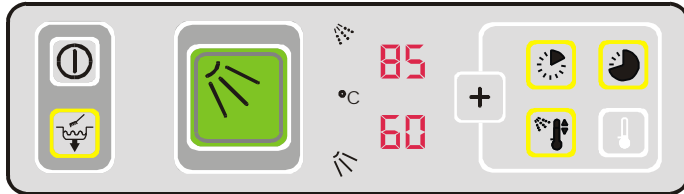
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9 Changing from normal programme to special programmes

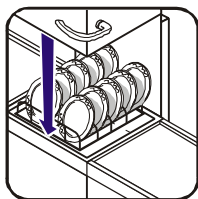


Before changing from normal programme to special programmes (short programme, intensive programme or programmes with reduced rinse temperature), the button area with the special programmes must first be activated.

To do this, press function button 



The button area with the special programmes is activated.



Close hood

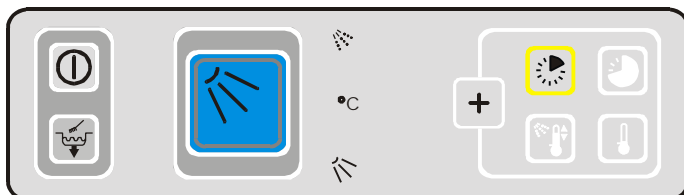
- **Short programme or intensive programme**

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

Short prog.: Press  and 

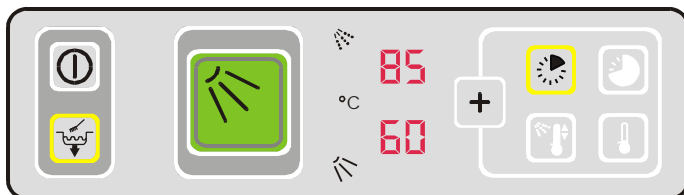
or

Intensive prog.: Press  and 



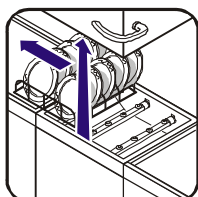
Example: Operating panel display during wash cycle with **short programme** selected.

Button  is lit blue.



Operating panel at end of programme

Button  is lit green.



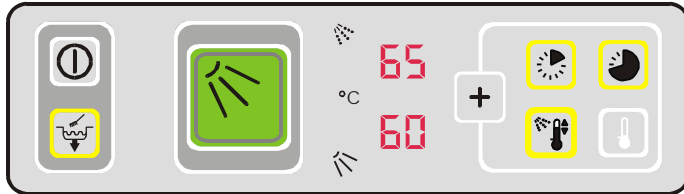
Open hood
Remove dish rack

• **Programmes with reduced rinse temperature (optional)**



The first rinse cycle with reduced rinse temperature is carried out with the high rinse temperature of the wash programme set previously.

Condition for continued operation: The button area with the special programmes has been activated (buttons 10, 11 and 12 are lit), the dishes are in the machine and the hood is closed.




Press Function button



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Select one of the 3 wash programmes:

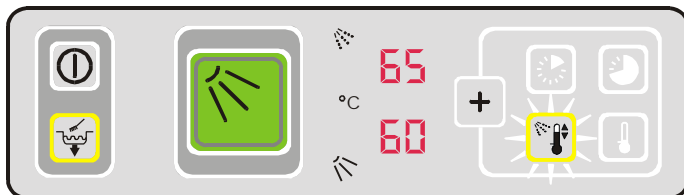
Normal prog. with reduced rinse temperature: *press* 

or


Short prog. with reduced rinse temperature: *press*  and 

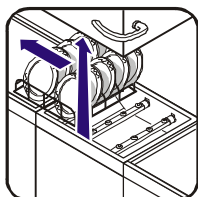
or

Intensive prog. with reduced rinse temperature: *press*  and 



Operating panel display for programme end (with pre-set normal programme)

Function button  flashes until another programme is selected.



Open hood
Remove dish rack



- After first selection and start of the wash programme, each further start is triggered by closing the hood.
- Check basket filter for blockage and clean if necessary. Basket filter can be removed without having to drain tank first.
- Check tank water for soiling. If necessary, drain and re-fill machine.
- Switching between special programmes: see section 10 "Changing the programme setting"

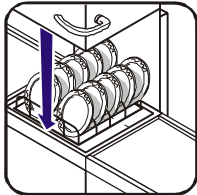
10 Changing the programme setting

Changing the programme setting for the special programmes and for the normal programme can be carried out with the hood open or closed (if the automatic hood start is inactive).

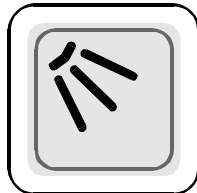
● Changing between the special programmes



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

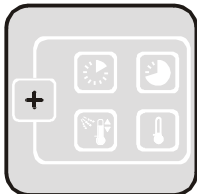



Close hood.



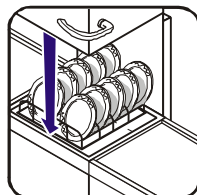
Press programme button.

● Changing from special programme to normal programme

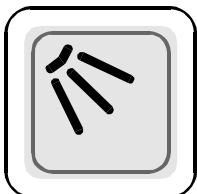


Press function button 

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




Close hood.



Press programme button.
Normal programme starts.

● Cancelling the programme selection

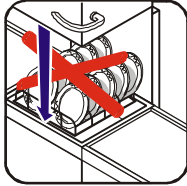
Press function button 

Close hood.


11 After washing

● Tank drainage / self-cleaning

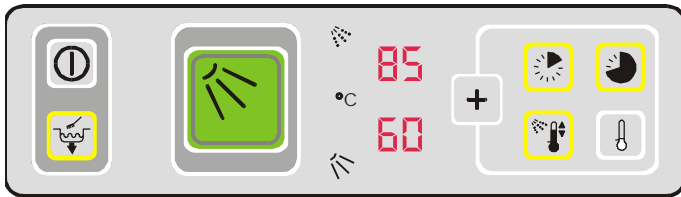
With the cleaning programme, the interior of the dishwasher is cleaned. The dirty wash water is pumped off. The dishwasher switches off automatically after the cleaning programme has finished.




Close hood.

Press function button 

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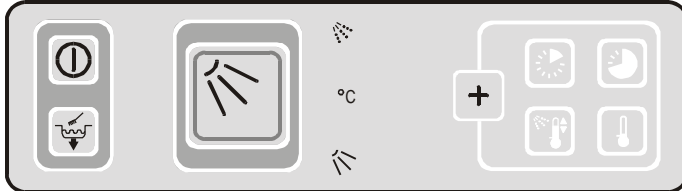


Hold down function button  for 2 seconds.

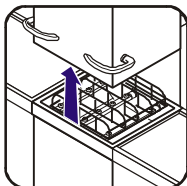


Operating panel display during the cleaning programme.

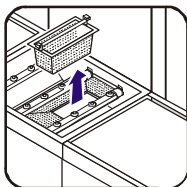
Button  flashes



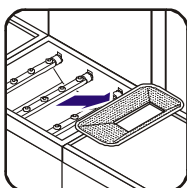
Operating panel display at end of programme.



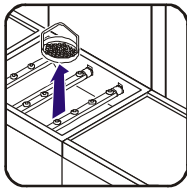
Open hood.



Remove and clean basket filter.



Remove and clean flat filter.



Remove and clean drainage filter.



Insert the parts removed again after cleaning.



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

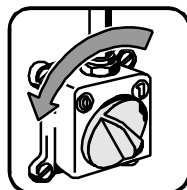
● Switching off



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

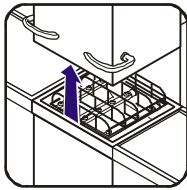


Turn water stop valve to closed position.

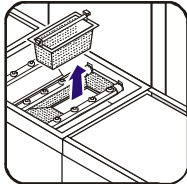


*Switch off customer's main switch.
Now the machine is safe.*

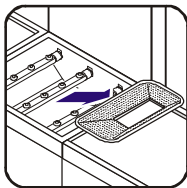
12 Maintenance and care



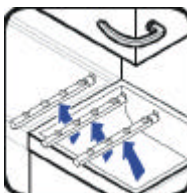
Open hood.



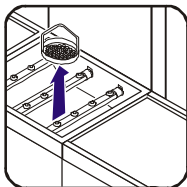
Remove and clean basket filter.



Remove and clean flat filter.



*Fold up or remove rack carrier.
Remove wash arms and check jets for blockages, clean if necessary.*



Remove drainage and pump suction filter, check for blockages and clean if necessary.

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



Insert filters and wash arms again.



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

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● Descaling

Drain machine.

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

Re-fill machine.

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



Observe the printed safety instructions.

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

Drain machine.



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

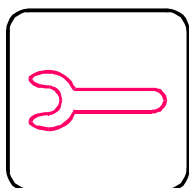
Put detergent supply into operation again.

Re-fill machine.

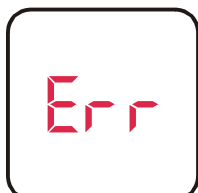
Operate machine twice more in intensive programme mode.

Drain machine or use for the current wash programme.

13 Faults






If the symbol for a fault lights up, the dishwasher must be switched off (press On/Off switch)



Following this, the **Err** sign lights up with the fault code 1-13 or **ECO** (only for machines with connection to customer's energy optimisation plant)

For information on faults, see following table:

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Display	Fault	Cause/Effect	Remedy
	Appliance does not start up	Customer's main switch is not switched on	Switch on customer's main switch
	Wash programme does not start	Hood is not completely closed	Close hood completely. Press hood down onto hood catch
	Items are not clean	Too low dosage of detergent or detergent container empty	Fill up detergent container or add detergent powder
		Basket filter and/or flat filter blocked	Clean basket filter and flat filter
		Wash jets in the wash arms blocked	Clean wash jets
		Functional fault in the water treatment	Call Winterhalter service engineer
	Numbers 1, 11 or 12	Dishwasher switches off completely Dishwasher cannot be switched on again	Call Winterhalter service engineer
	Number 5, 13	Main water stop valve closed Dishwasher not completely ready for operation	Open main water stop valve Call Winterhalter service engineer
	Numbers 2, 3, 4, 6, 7, 8, 9, 10	Dishwasher not completely ready for operation	Call Winterhalter service engineer

● **Error alarm via program key 6**





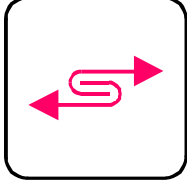
This key lights up or flashes in **red** whenever a temperature exceeds the setpoint value:

- **Continuous light:** temperature in boiler or tank is below the setpoint value (only during initial heating). As soon as the setpoint values are reached, the key lights up in green.
- **Flashing light:** temperature in boiler or tank is greater than 95°C.



Danger of scalding: Switch off the machine immediately. The fault symbol (3) and error code **Err 2** or **Err 3** will then appear. Notify the Winterhalter customer service team immediately. Do not switch on the machine again.

● **Error alarms in machines with optional extras**

<p>Optional</p> 	<p>Peak load cut-off active</p>	<p>The dishwasher is not completely ready for operation</p> <ul style="list-style-type: none"> ● The dishwasher switches off completely 	<p>Switch off additional consumers</p>
<p>Optional</p> 	<p>Lack of detergent or rinse additive</p>	<p>The dishwasher is not completely ready for operation</p>	<p>Re-fill detergent or rinse additive</p>
<p>Optional</p> 	<p>Fault in the on-line water treatment plant</p>	<p>The dishwasher is not completely ready for operation</p>	<p>Read the relevant manual</p>

14 Emission values

Noise emission values

The workplace related emission value is <70dB(A)