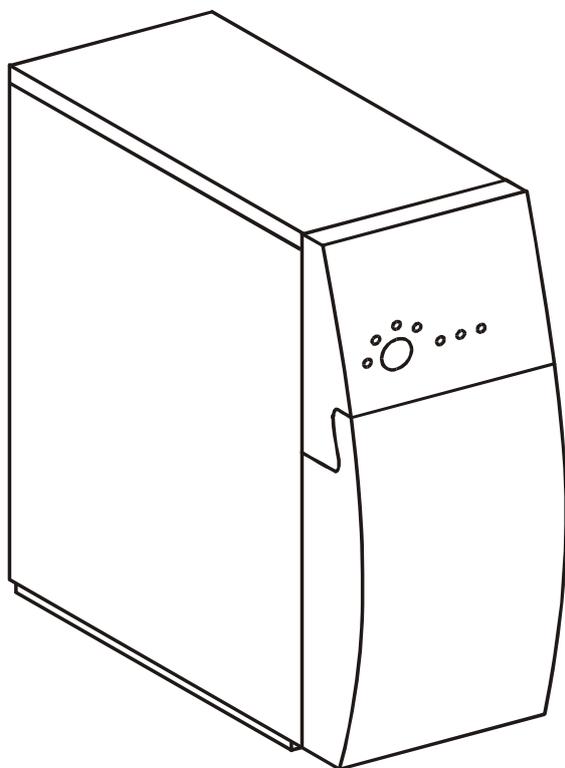


Operating Instructions

Winterhalter Gastronom RoMatik 150



In order to guarantee many years of trouble-free service, we recommend that you sign a maintenance contract with your local Winterhalter service centre.

Summary:

1.	Intended purpose.....	1
2.	Installation and initial start-up.....	2
3.	Safety instructions for the operator	2
4.	Indicating elements.....	3
5.	Operating the appliance	3
6.	Caring for the appliance	3
7.	Error messages	4
8.	Keeping the membrane moist.....	6
9.	Requirements for the Untreated Water (raw water)	6
10.	Technical data	6

1. Intended purpose

The **Winterhalter Gastronom RoMatik 150** is designed for **softening cold water** (max. 25°C) in preparation for use in **commercial dishwashers**.

The RoMatik 150 may only be connected to a dishwasher.

The feed water must conform to the specifications of the Ordinance on Drinking Water (see Page 6).

The appliance may only be used for this purpose and in accordance with the operating instructions provided.

Any change in the use or design of the RoMatik 150 without our written consent shall exempt us from all guarantee and product liability obligations.

2. Installation and initial start-up

The RoMatik 150 must be installed and connected to the on-site supply and waste pipes by a trained fitter in accordance with the "**Installation Instructions for Winterhalter Gastronom RoMatik 150**".

The initial start-up procedure and briefing of the customer must be carried out according to the "**Start-up Instructions for Winterhalter Gastronom RoMatik 150**".

For this purpose, contact the Winterhalter factory representative responsible for your site once the appliance has been correctly connected up.

The RoMatik 150 is not ready for operation until all the necessary work has been completed.

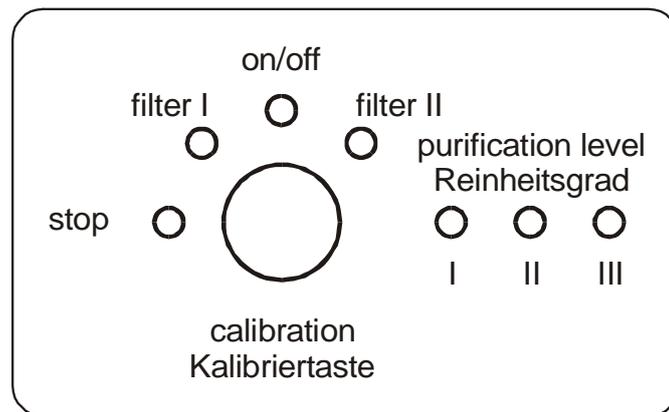
3. Safety instructions for the operator



The following instructions must be observed in the interest of safe operation:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance
- Only operate the appliance as described in these operating instructions.
- Only use this appliance after having read and understood the operating instructions and been personally briefed on its workings and operation.
- The operating instructions are an integral part of the appliance! In the event of a resale of the RoMatik 150, be sure to pass on the operating instructions to the new owner/operator.
- **Risk of injury:** Do not open any coverings or machine parts for which the use of a tool is required.
- **Electric shock hazard:** Do not interfere with the electrical equipment of the appliance yourself under any circumstances: always leave this to a qualified electrician.
- **The appliance may only be connected to a cold water supply (max. 25°C).**
- The appliance can only function properly if it is permanently connected to the power and water supply. If not, unpleasant odours may occur in the water due to microbiological processes and the appliance may be damaged.
- **If the RoMatik 150 is to be taken out of operation for more than 2 weeks (disconnected from power and water supply), the membrane has to be moistened by Winterhalter after-sales service.**
- Any faults which are not due to the on-site water or power supply lines must be reported to the Winterhalter after-sales service.
- If a leak occurs in any part of the appliance, shut off the water supply immediately and remove the mains plug in order to de-energise the appliance.
- Check all water connections for leaks once a month. Leakages outside the appliance are not detected by its safety system.
- **The appliance must not be stored in rooms at temperatures below 5° C.**
- **The appliance is not splash-proof.** Do not clean the outside with a wet cloth or with a high-pressure or steam-jet cleaning device. Do not use detergents. Only wipe the outside of the appliance with a damp cloth. If the appliance cannot be protected against splash water for structural reasons, an additional substructure should be provided.
- Take care to avoid crushing hoses or cables when moving or cleaning the appliance.
- If the mains lead has been damaged in some way, it must be replaced by a qualified person to avoid damage or injury.
- The plug should be easily accessible after installation.

4. Indicating elements



The indicating elements are located at the front of the appliance.

They enable the operator to **monitor the water quality** ("Purity level I, II and III") during the water purification process and also serve to **display error messages**.

If an error message occurs, contact the **Winterhalter after-sales service** and quote the displayed error message.

Your appliance is working **normally** if the indicator for **purity level II or III** lights up no later than 2 minutes after the **commencement** of water purification. If the indicator for purity level I lights up, this means that the water quality has deteriorated.

The system then switches automatically to fault status (see error messages) and stops the purification process.

5. Operating the appliance

Once your RoMatik 150 has been **installed and calibrated** by the Winterhalter service technician, it is ready to be put into operation.

The RoMatik 150 is equipped with an **electronic control system** in order to simplify operation. During normal operation, there are only a few points to be observed:

- **Observe indicating elements** for the purity level in order to detect any deterioration in the water quality at an early stage. This will also affect the washing results of your dishwasher.
- **Observe error messages** in order to be able to notify the Winterhalter after-sales service in time and so avoid damage to the appliance.
After producing purified water continuously for 15 minutes, the appliance automatically performs a flushing cycle. This is not an error.

6. Caring for the appliance

- Only use a **damp cloth and no other cleaning agents** on the RoMatik 150. Do not rinse the appliance with water.
- **Check all water connections** regularly. Condensation beneath the filter behind the front cover is not a sign of leakage, and can be simply wiped dry. If the "stop" indicator lights up due to an accumulation of condensation, remove the mains plug after wiping and wait for 2 minutes before plugging it in again.
- **Check the indicating elements** regularly for error messages.

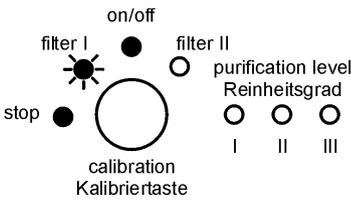
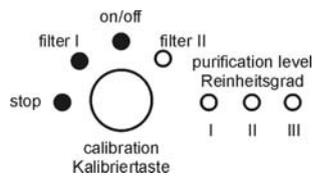
7. Error messages

To protect both the user and the appliance itself from incorrect use, the RoMatik 150 is equipped with various built-in safety devices for interrupting the operation of the appliance.

The following table explains the possible causes of common warnings. If the cause of the error cannot be eliminated, the Winterhalter after-sales service should be contacted.

The symbols used have the following meanings:

	Indicator extinguished
	Indicator illuminated
	Indicator flashing

Display	Cause of error	Remedy
 <p>or</p> 	Indicates internal leakages or condensation on the base plate	<ul style="list-style-type: none"> If all connections are watertight, the Winterhalter after-sales service should be notified
	Splash water from outside	
	Water supply is shut off or interrupted	<ul style="list-style-type: none"> Remove mains plug, open water shut-off valves, wait for 2 minutes, then re-insert plug mains plug Important: the device must be connected permanently to the power and water supplies
	Contaminated strainer in dirt trap of shut-off valve or solenoid valve of water inlet	<ul style="list-style-type: none"> Close shut-off valve, clean strainer and re-open shut-off valve. If the error message persists, the strainer in the solenoid valve may be blocked. In this case, notify the Winterhalter after-sales service
	Filter I is clogged	<ul style="list-style-type: none"> Notify Winterhalter after-sales service
	The water pressure is too low on a permanent basis. The RoMatik was not able to automatically restart	<ul style="list-style-type: none"> Check parts that could influence the water pressure (water line, dirt screen). Have a membrane-type pressure vessel installed.

Display	Cause of error	Remedy
<p>on/off filter I filter II stop calibration Kalibriertaste purification level Reinheitsgrad I II III</p>	<p>Filter II needs replacing</p> <p>Note: this indicator lights up after a maximum of 6 months or 1000 hours of permeate production</p>	<ul style="list-style-type: none"> Notify Winterhalter after-sales service
<p>on/off filter I filter II stop calibration Kalibriertaste purification level Reinheitsgrad I II III</p>	<p>Indicates reduced water quality</p> <p>Error in the water quality measuring device</p>	<ul style="list-style-type: none"> Notify Winterhalter after-sales service
<p>on/off filter I filter II stop calibration Kalibriertaste purification level Reinheitsgrad I II III</p>	<p>Error in the water quality measuring device</p>	<ul style="list-style-type: none"> Notify Winterhalter after-sales service
<p>Poor rinsing result due to low water production / throughput</p>	<p>Membrane may be clogged</p> <p>Error in control system</p>	<ul style="list-style-type: none"> Notify Winterhalter after-sales service
<p>Unpleasant odours in water</p>	<p>RoMatik 150 has been disconnected from the water or power supply</p> <p>Microbiological processes (due to lack of flushing) have produced unpleasant odours in the water</p>	<ul style="list-style-type: none"> Notify Winterhalter after-sales service
<p>on/off filter I filter II stop calibration Kalibriertaste purification level Reinheitsgrad I II III</p>	<p>Water pressure that is too low</p>	<ul style="list-style-type: none"> RoMatik automatically starts after 3 minutes, after 20 minutes and after 4 hours *

* Starting with Lot No. 70 600 001, the RoMatik 150 automatically starts when a malfunction arises because of water pressure that is too low.

The RoMatik 150 can also be manually restarted by pressing the calibration button until the "filter I" and "stop" LEDs go out.

8. Keeping the membrane moist

If the RoMatik 150 is to be taken out of operation for more than 2 weeks (disconnected from power and water supply), the membrane has to be moistened by Winterhalter after-sales service, who should be notified again before operation is resumed after the break.

9. Requirements for the Untreated Water (raw water)

The feed water must conform to the specifications of the Ordinance on Drinking Water:

Extract from the German Ordinance on drinking water:

Substance	Limit value
Copper	max. 2.0 mg/l
Manganese	max. 0.05 mg/l
Sulphate	max. 240 mg/l

Furthermore, the following tightened limit values are valid:

Bezeichnung	Limit value
Raw water temperature ¹	max. 25 °C
Conductivity of the raw water ¹	max. 1500 µs/cm
Total hardness	max. 31°e (25 °dH) (4,5 mmol/l)
Water flow pressure	min. 1.5 bar (150 kPa)
Water flow pressure	max. 6 bar (600 kPa)
Chlorine	max. 0.3 mg/l
Iron	max. 0.2 mg/l

10. Technical data

Dimensions	Height: 465 mm Width: 225 mm Depth: 460 mm (395mm excluding handle and hoses)
Weight	29 kg without water (on delivery) 33 kg with water
Capacity (clean water amount)	Max. 3.1 (±0.5) litres/minute with 15°C water inlet temperature and constant flow
Electrical connection	230V/1/N/PE/50-60Hz, 10 A, earthing contact
Water connection	Cold water; min. 1.5 bar flow pressure (8 l/min); max. 6 bar
Power consumption	530 W
Noise emission	< 60 dB(A)
Operating range	
Air temperature	5 - 42°C
Air humidity	25 - 95%
Conductivity of the clean water (permeate) ¹	80 µs/cm (with conductivity of the raw water of 1500 µs/cm and a raw water temperature of 15° C)
Yield rate	65%

¹ The conductivity of the clean water depends on the conductivity and the temperature of the raw water. If raw water conductivity of greater than 1500 µs/cm exists, conductivity of the clean water of 80 µs/cm can only be achieved when the raw water temperature is lower by a corresponding amount.