

Operating Instructions

for Water Softener MonoMatik 1x4



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1 Purpose

The water softener **MonoMatik 1x4** is for treating tap water for use in a commercial dishwasher and may only be used for this purpose. It is installed between the water supply and the dishwasher.

Any modification in the design or use of the appliance without the prior written consent of Winterhalter Gastronom GmbH will release us from all warranty and product liability obligations.

Any damage to the **MonoMatik 1x4** due to non-compliance with the instructions in this manual will result in the loss of warranty claims with respect to Winterhalter Gastronom GmbH.

2 Safety instructions

- The maximum permissible water temperature is 50°C.
- The inside of the tank must not be cleaned with detergents or other chemicals.
- The **MonoMatik 1x4** must be protected against the risk of freezing.

3 Installation and connection

Installation

- Remove the **MonoMatik 1x4** from the box and check for any damage in transit. Any damage should be reported immediately to the carrier, insurance company and manufacturer.
- Remove the cardboard padding from the plastic container.
- The **MonoMatik 1x4** is best installed on the floor. If installing it on an existing foundation or base, unscrew the castors.
- The place of installation must be horizontal and even. A slight incline, as is usual in industrial kitchens, will not impair the function of the softener, but it should be secured to prevent it from rolling away.
- In the vicinity of the softener, there should be a soiled water drain which, after installation of the **MonoMatik 1x4**, should not be higher than the side overflow of the appliance. A moisture-proof socket (alternating current) is also required.
- There must be room to remove the cover in order to top up the regenerating salt .

Connection

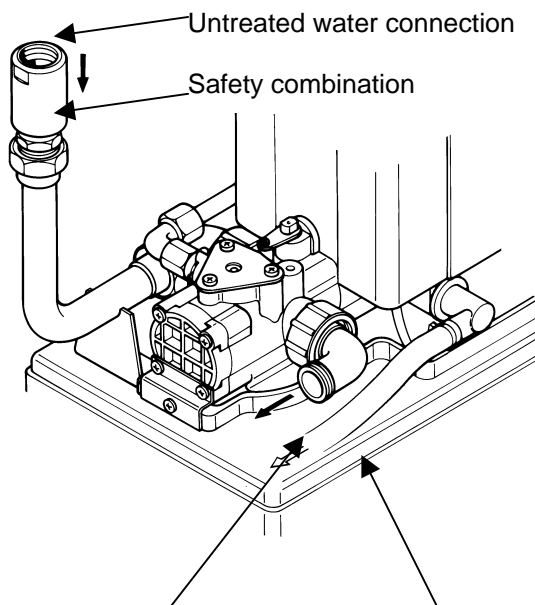


The MonoMatik 1x4 must be connected to the customer's supply and waste water pipes by certified fitters according to the national and local requirements. It is essential that the information on the enclosed connection diagram be observed.

The **MonoMatik 1x4** softener is approved by the DVGW (German association of dishwasher manufacturers) in combination with a Winterhalter dishwasher.



The water in the **MonoMatik 1x4** is softened to a total hardness of 0°d. Consequently, no wires made of copper or galvanised material should be used at the soft-water end.



Soft water connection

Regenerating waste water

- Connect the saline suction pipe and the regenerating waste water hose to the control device.
- Mount the water inlet and outlet connectors on the control device together with the safety combination. If space is limited, the safety combination can be fitted separately from the appliance at another point in the water inlet. Always make sure, however, that it is installed vertically in the flow direction, at a distance of at least 110 mm above the upper edge of the appliance.
- Install the microfilter supplied with the dishwasher in the water supply pipe to the **MonoMatik 1x4**.

4 Structure and function

The **MonoMatik 1x4** consists of a mobile plastic container with a detachable cover. The container is for storing regenerating salt or saline solution.

Inside the container is a cartridge made of glass-fibre-reinforced polyester and filled with exchanger resin. On the cartridge is a miniature circuit breaker assembly with an electric timer for controlling the regeneration intervals.

The appliance is equipped with approx. 1 m of connecting cable and an earthing-pin plug for connection to the electrical supply.

The water is softened according to the principle of ion exchange. The exchanger resin in the cartridge bonds with the hardness-forming salt ions from the untreated water as it passes through while releasing other, non hardness-forming salt ions into the water.

The exchanger resin has a limited capacity which depends on the hardness of the untreated water. When exhausted, it has to be regenerated.

The regeneration cycles are set at the week disc in the control device according to the water consumption and hardness of the untreated water. They are then executed automatically.

5 Initial start-up

After connecting the **MonoMatik 1x4** correctly to the on-site supply pipes, contact your responsible Winterhalter works representative for the initial start-up. He will also brief you on the operation of the **MonoMatik 1x4**.

6 Operation

After start-up, the softener operates fully automatically. All you need to do is top up the regenerating salt from time to time. Only use unadulterated boiled salt which is labelled suitable for use in water softeners (granulation 8-15 mm, or in tablet form). Never use rock salt or refined salt.

Make sure the level of regenerating salt in the container is always above the water level.

7 Care and maintenance

The softener can be cleaned and maintained with commercially available plastic cleaning and preserving agents.

The operation of the softener should be checked at regular intervals (at least once a year) by a Winterhalter after-sales service engineer.

When necessary, the inside of the container should be cleaned as follows:

- Shut off the water supply
- Drain the container completely (empty the water and salt)
- Take out the strainers
- Remove sludge and dirt particles with a cloth or brush. Do not use detergents or other chemicals!
- Re-insert the strainers and open the water tap. Re-fill with salt.

Cleaning the microfilter:

The microfilter upstream of the appliance should also be cleaned at regular intervals. To do this, shut off the water supply before removing and cleaning the filter element.

Then re-insert the filter element in the correct position, tighten the screw cap firmly and re-open the water supply.