

Kinetico Model 613 SK/HT

Kinetico is a registered trademark and Kinetico Incorporated, Newbury, Ohio, U.S.A

Technical Instruction

1.1 The Kinetico system

- Unit requires no electrical installation.
- Minimal salt consumption per m³ soft water.
- Soft water 24 hours a day, whatever the consumption.
- Supplies soft water during regeneration.
- Materials 100% corrosion free.



1.1.1 Applications

For professional dishwashers and washing machines, for boiler units and for pretreatment in reversed osmosis units etc.

If higher capacity is required, see the rest of our range of softening units.

1.1.2 Automatic control

The two integral water meters provide system control. The automatic control system works without electricity, being powered only by water pressure.

The automatic control system must be set to the hardness of the local water when the system is commissioned. No further adjustment of the unit is necessary.

The moving parts of the control system are in contact with soft water only - avoiding operating failures and build-up of limescale on moving parts.

1.1.3 Regeneration

Regeneration is triggered by soft water consumption and is controlled automatically by the water meters. While tank A is regenerating, tank B supplies soft water.

Regeneration is performed against the flow – this saves water and energy and conserves the filter material. Only soft water is used for regeneration, prolonging the service life of moving parts.

Note:

To prevent rust formation in the dishwasher, the pipes and fittings after the softening filter must be made of brass, stainless steel or PVC.

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1.2 Technical Data

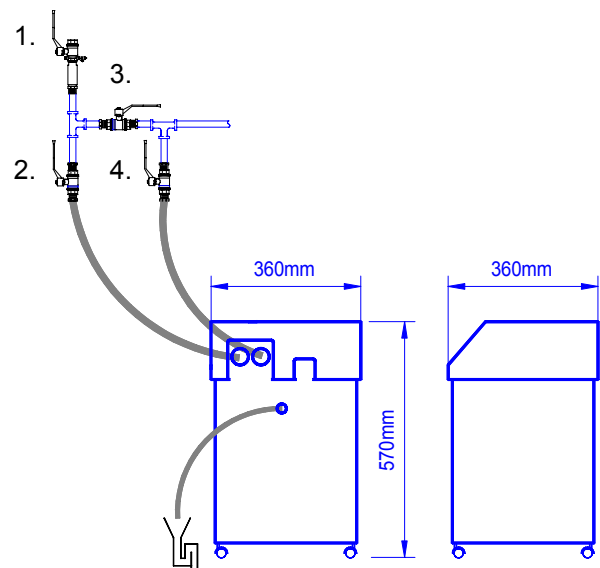
Pipe connection	3/4"
Wastewater connection, mm hose	12
Water pressure	2.5 - 7.5 bar
Capacity, litre/min	20
Capacity maximum (short-term)	25
Maximum hardness °dH	30
Regeneration, Salt consumption, kg	0.5
Regeneration time, min	11
Regeneration water, litres	34
Regeneration Return rinse, litre/min	5
Maximum temperature, °C, SK 613	35
Maximum temperature, °C, HT 613	65
Salt capacity in cabinet, kg	20

1.3 Installation

1. Mount the high-pressure vacuum valve vertically at least 150 mm above the highest point on the remainder of the installation.
2. Shut-off valve (untreated water).
3. Shut-off valve (bypass).
4. Shut-off valve (soft water).

Note:

- The unit must be connected to a floor drain.
- The waste water hose is located in the cabinet and must be connected to the outlet bend on the left-hand side of the automatic control system (seen from the front).
- It is recommended that the filter is connected to the pipe system on the wall using flexible hoses.
- The hoses must be reinforced with couplings welded in place.



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1.4 Operating instructions

Prior to first use

Before the unit is used for the first time, measure the hardness of the water and if necessary change the hardness disk (meter disk) on the automatic control unit.

All units are supplied as standard with meter disk no. 5 (hardness up to 19 °dH). For other degrees of hardness, change to the applicable disk.

When connections have been installed and the unit correctly linked up, fill the filter tank with water and start the system up. This is done as follows:

1. Close the valves to the inlet and outlet pipes and the bypass valve.
2. Open the valve to the inlet pipe slightly, allowing the filter to fill slowly with water.
3. Briefly set first one tank and then the other to backwash-position to expel air from the unit. Check that water is running from the waste hose. (The tanks are set in backwash position by pressing down the crosshead screw in the centre of the control head and twisting it until the selector is in the position "BACKWASH". For the first tank this will be at 5 o'clock and for the second 11 o'clock). Water must continue to run from the waste water hose until the automatic control system has set itself in "Service Position", after which the water will stop of its own accord in 3-4 minutes.
4. The softening unit is now in operating position. The selector will be at 12 o'clock. If a little water is still running out in this position, it can be stopped by pressing the crosshead screw down a couple of times with a crosshead screw driver.
5. Now open the valves to the inlet and outlet pipes to their full extent. The bypass valve (if provided) remains closed.
6. Check that water runs into the salt tank until the salt valve in the salt tank closes.
7. Fill the salt tank with the appropriate salt tablets. Use only salt tablets designed for water softening units. There must normally always be sufficient salt in the cabinet to cover the water.
8. The unit is now ready for use and will provide a continuous supply of soft water.

1.5 Care of the unit

1. Make sure there is always salt in the container.
2. When filling the salt, it is important that none gets into the float valve well.
3. USE ONLY SALT TABLETS DESIGNED FOR WATER SOFTENING UNITS.
4. The valves on the inlet and outlet pipes must remain open. The bypass valve must remain completely closed.
5. If problems occur, call our service department.