INSTALLATION AND OPERATING INSTRUCTIONS

WATEX CMA 8/9/10/12/13/14 MULTIMIX

Water softening, iron removal and organic-matter reduction system

First-start video (English)
Verified WATEX – Pure Water Systems video
https://www.youtube.com/watch?v=GvD87WnNrG8

IMPORTANT: Read these instructions carefully before installation and use.

Models: CMA08 • CMA09 • CMA10 • CMA12 • CMA13 • CMA14

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Document scope and source control

- This manual is a professional Estonia edition derived from the identified WATEX source manual. Company details, legal references and commercial warranty wording have been adapted for the Estonia edition.
- Installation, commissioning and any change to programmed regeneration values must be performed by a competent water-treatment installer using the actual water analysis and the commissioned model.

IMPORTANT: Canonical procedures and family content: SRC0053. Model values in the technical table are from the matching Veefiltrid.ee technical tabs freshly audited on 2026-09-05; they are not shipping dimensions.

General information

- WATEX CMA MULTIMIX is an automatically regenerated household water-treatment system. Its mixed ion-exchange media reduces hardness, ammonium, organic matter and turbidity.
- The source manual allows iron reduction where dissolved iron does not exceed approximately 2.5–3.0 mg/L and the rest of the raw-water conditions are suitable. Final selection and settings require a current laboratory water analysis.
- Regeneration uses sodium chloride (NaCl) salt tablets. Regeneration wastewater may be routed only to a drain system that is suitable for the flow and salt load.

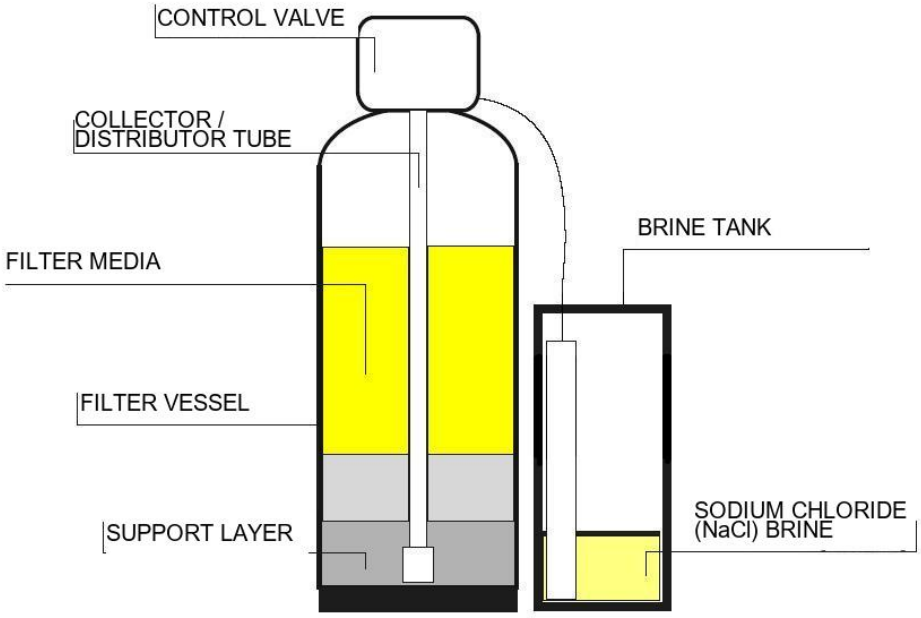
WARNING: Use only with cold potable-water supply. The system does not disinfect microbiologically unsafe water. Obtain a current laboratory analysis and professional sizing before installation.

Transport and handling

- The filled pressure vessel is heavy and impact-sensitive. Use a trolley; if manual handling is unavoidable, use two people.
- Keep the unit upright. Do not rock, shake or invert it: the graded media layers can mix and enter the downstream pipework.
- Grip the unit at the control-valve/vessel junction and at the vessel body. Never lift it by the loose lower base.

System components and construction

- FRP pressure vessel with an inner polyethylene liner.
- Graded silica support layers and the specified RESINEX KW-8 / TPX4500 ion-exchange media mixture.
- Clack WS1CI automatic control valve with a built-in flow meter.
- Separate brine tank with brine valve/float, overflow connection and 3/8-inch brine line.



Source illustration adapted from the canonical WATEX manual; embedded labels have been localized for this Estonia edition.

Illustration legend

Localized image label	Localized technical term
CONTROL VALVE	control valve
COLLECTOR/DISTRIBUTOR TUBE	collector/distributor tube
FILTER MEDIA	filter media
FILTER VESSEL	filter vessel
SUPPORT LAYER	support layer
BRINE TANK	brine tank
SODIUM CHLORIDE (NaCl) BRINE	sodium chloride (NaCl) brine

Technical data

Parameter	Unit	CMA08	CMA09	CMA10	CMA12	CMA13	CMA14
Nominal flow	m³/h	0.60	0.82	1.00	1.50	1.70	2.00
Water per regeneration	L	150	180	205	245	285	345
Minimum rinse flow	m³/h	0.60	0.80	1.00	1.50	1.70	2.00
Vessel diameter	in / m	8 / 0.20	9 / 0.24	10 / 0.25	12 / 0.30	13 / 0.33	14 / 0.37
Vessel volume	L	25	32	64	85	110	145
Filter media	L	15	25	40	55	70	100
Overall L × W × H	m	0.53 × 0.20 × 1.08	0.85 × 0.24 × 1.41	0.89 × 0.25 × 1.57	0.99 × 0.30 × 1.52	1.23 × 0.33 × 1.57	1.28 × 0.37 × 1.87
Water / drain connection	in	1″	1″	1″	1″	1″	1¼″
Operating pressure	bar	2–6	2–6	2–6	2–6	2–6	2–6
Electrical consumption	W	3	3	3	3	3	3

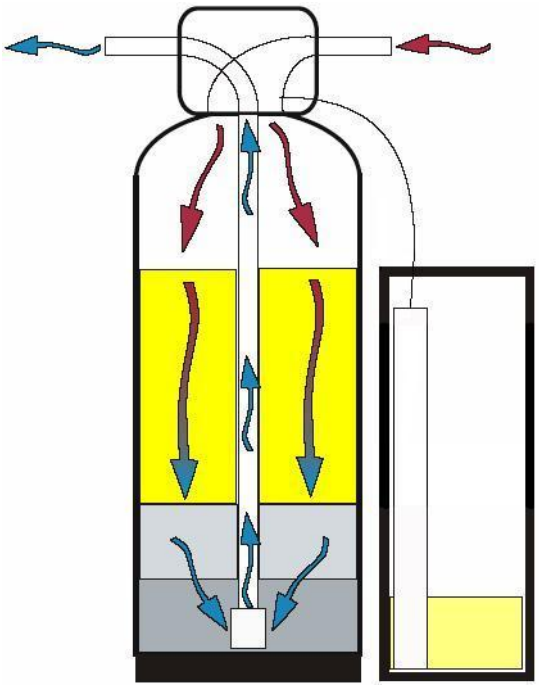
Units: flow m³/h; volume L; pressure bar; electrical consumption W. A dash means the canonical source does not state a value.

IMPORTANT: Do not copy settings between models. The commissioned controller values and the water-analysis-based design take precedence.

System operation

Service cycle

During service, raw water flows down through the media; treated water rises through the distributor tube and exits through the control valve. The built-in meter counts treated volume. When the programmed capacity is reached, regeneration is scheduled for the programmed time, normally at night.

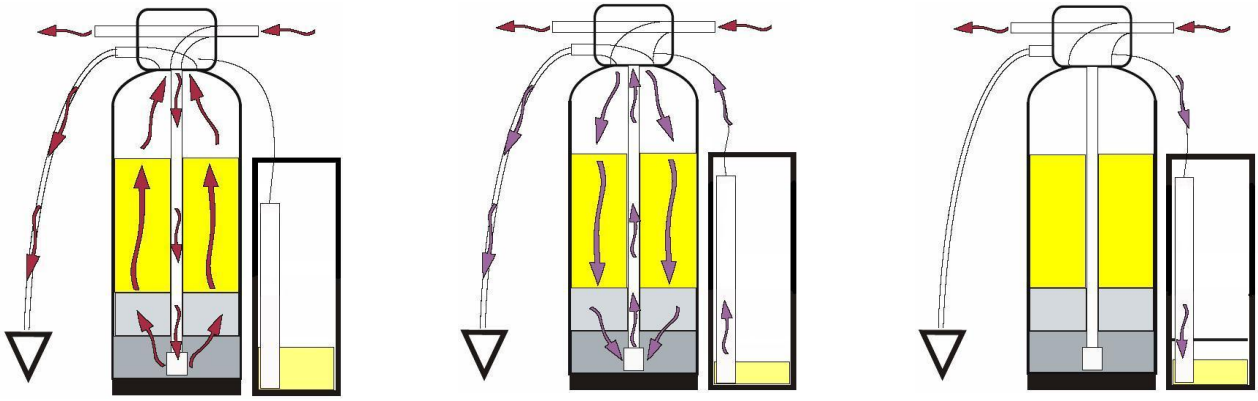


Source illustration adapted from the canonical WATEX manual; embedded labels have been localized for this Estonia edition.

IMPORTANT: Untreated water may be supplied to users during regeneration. Avoid water use until the full sequence is complete. The source sequence lasts approximately 1.5 hours; commissioned settings take precedence.

Regeneration / wash cycle

1. Backwash: upward flow loosens the bed and carries collected matter to drain; source duration approximately 10 min.
2. Brine draw: salt solution is drawn through the media and restores ion-exchange capacity; source duration approximately 60 min.
3. Second backwash: removes loosened matter and residual regenerant; source duration 8 min.
4. Rinse: downward-flow rinse sends residual regenerant to drain; source duration 4 min.
5. Brine refill: treated water refills the brine tank for the next regeneration; source duration approximately 6 min or until the float closes.



Source illustration adapted from the canonical WATEX manual; embedded labels have been localized for this Estonia edition.

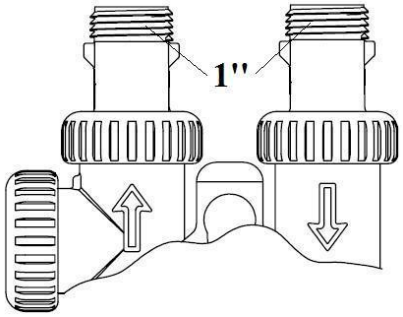
WARNING: The first wash/regeneration must be supervised. Stop, bypass and isolate the unit if there is leakage, uncontrolled drain flow, media discharge or an electrical fault.

Installation

General installation conditions

- Install the vessel upright on a flat, level, load-bearing surface in a frost-free technical space. Allow access for inspection and annual service.
- Provide a bypass, isolation valves before and after the unit, and preferably pressure gauges and sampling valves on both sides.
- The control valve and plastic connectors must not carry the weight or stress of the building pipework. Complete soldering before connecting plastic parts and allow fittings to cool.
- Use PTFE tape only on suitable threaded water connections. Do not use petroleum jelly, oil or hydrocarbon lubricants. Food-grade silicone grease may be used sparingly on black O-rings.
- Tighten union nuts by hand or with the correct plastic service wrench. Do not use a pipe wrench, screwdriver or hammer on plastic fittings.
- Install a suitable mechanical prefilter upstream. All plumbing and electrical work must comply with the requirements applicable at the installation site.

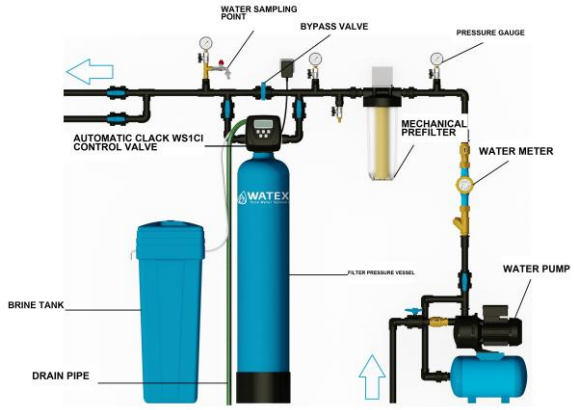
WARNING: Never open, loosen or service a pressurised valve or vessel. First isolate the water, place the unit in bypass, disconnect power and fully release pressure.



Source illustration adapted from the canonical WATEX manual; embedded labels have been localized for this Estonia edition.

Water, drain and auxiliary connections

- Water inlet is on the right and outlet on the left when viewed from the front; confirm the moulded flow arrows. Use the model-specific 1-inch or 1¼-inch connection shown in the technical table.
- Connect the drain hose to the control-valve drain elbow without reducing the required flow. Secure the hose, prevent kinks and provide a visible air gap to the building drain.
- Connect the 3/8-inch brine line between the valve and brine tank. Do not apply thread sealant to the compression/clip joints. Route the tank overflow separately to a safe gravity drain.
- Place the brine tank where the lid and brine valve remain accessible. Use clean water-softener salt tablets; do not fill with powdered salt or unknown chemicals.



Original WATEX source illustration; use the localized legend below for the labels.

Illustration legend

Localized image label	Localized technical term
WATER SAMPLING POINT	water sampling point
BYPASS VALVE	bypass valve
PRESSURE GAUGE	pressure gauge
AUTOMATIC CLACK WS1CI CONTROL VALVE	automatic Clack WS1CI control valve
MECHANICAL PREFILTER	mechanical prefilter
WATER METER	water meter
WATER PUMP	water pump
FILTER PRESSURE VESSEL	filter pressure vessel
BRINE TANK	brine tank
DRAIN PIPE	drain pipe

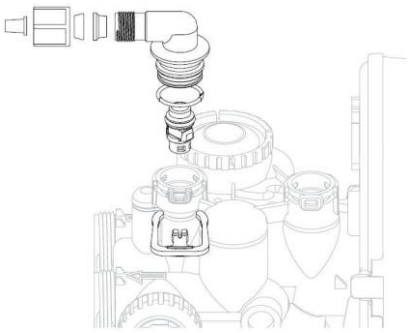
Commissioning

Electrical connection

- Use the supplied transformer in a dry location and a continuously energised 220–230 V, 50 Hz socket within reach of the cable.
- Route and connect the low-voltage plug exactly as shown for the controller. Do not energise wet, damaged or incorrectly assembled electrical parts.
- After a long outage, check the clock. Program memory is retained, but the displayed time may need to be set again.

Commissioning

1. Confirm the bypass position, supported pipework, drain air gap, brine line, overflow, transformer and all clips before admitting water.
2. Fill the brine tank with clean NaCl tablets. Open the inlet slowly and vent air without water hammer; inspect all joints.
3. Set the correct time. Use the commissioned capacity and cycle durations; do not guess values from another model.
4. Start one supervised manual regeneration. Verify backwash flow, brine draw, refill level, return to service and absence of leakage. Recheck treated-water quality after flushing.



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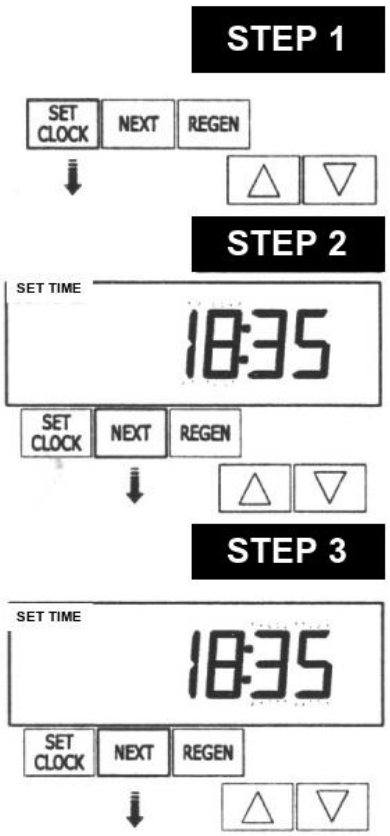
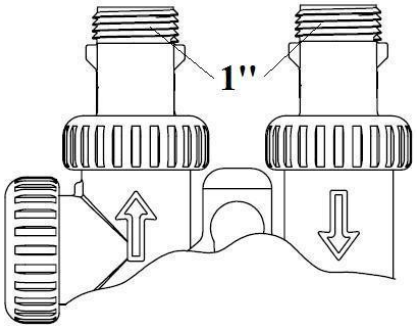
WARNING: The first wash/regeneration must be supervised. Stop, bypass and isolate the unit if there is leakage, uncontrolled drain flow, media discharge or an electrical fault.

Controller settings and manual regeneration

- Press SET CLOCK. Set the hour with ▲/▼, press NEXT, set the minutes, then press NEXT to return to normal operation.
- A short press of REGEN schedules regeneration for the programmed time; REGEN TODAY flashes. Press again to cancel the scheduled request.
- Holding REGEN for approximately 3 seconds starts regeneration immediately. Once started, the sequence cannot be cancelled safely; allow it to finish.
- Cycle durations, capacity and start time are commissioning parameters. Change them only on the instruction of a competent service technician.





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IMPORTANT: Do not copy settings between models. The commissioned controller values and the water-analysis-based design take precedence.

Maintenance plan

- Inspect the unit, drain route, bypass, hoses, electrical cable, pipe supports and every connection at least once a year and whenever leakage, unusual noise or a water-quality change is observed.
- Check the programmed sequence, measured flow, pressure loss and treated-water quality. Clean and lubricate the control-valve mechanism only with suitable service materials.
- Use original or technically compatible service parts. Isolate water, bypass the unit, disconnect power and release pressure before service.
- Record the service date, water analysis, settings and replaced parts. The required interval may be shorter than one year where raw-water quality or use is demanding.
- Keep the salt level above the water level while avoiding overfilling. Break up salt bridging and clean the brine tank when deposits impair operation.
- During annual service, test hardness and other parameters identified by the water analysis, inspect the injector, piston/seal stack, turbine, brine valve and safety float.

Interval	Owner / technician action	Evidence to retain
Monthly	Visual leak, drain, display and bypass check	Observation / photo if abnormal
Every 3 months	Check treated-water indicator relevant to the installation	Test result
At least annually	Full hydraulic, controller, drain and water-quality service	Service report + analysis
After outage / repair	Check clock, settings, flow direction and one supervised cycle	Commissioning note

Troubleshooting — 1

Symptom	Likely cause	Safe action
Display blank	No mains power, loose transformer plug, damaged transformer or control board	Check the socket and low-voltage plug; have damaged electrical parts replaced by service.
Time incorrect or flashing	Long power interruption or clock not reset	Set the correct time; verify the programmed regeneration start time.
No SOFTENING indication during flow	Bypass open, meter disconnected, turbine jammed or damaged	Put the unit in service; isolate it before checking the meter/turbine and wiring.
Regeneration at the wrong time	Clock or regeneration start time incorrect	Reset both values; confirm local daylight-saving time.
Hardness / colour / organics return	Capacity exceeded, no regeneration, salt bridge, insufficient brine draw or unsuitable raw water	Check salt and brine draw, initiate a supervised regeneration, then test water and call service if performance does not recover.

WARNING: Do not dismantle the pressure valve or electrical controller unless trained and authorised. Repeated faults require competent service.

Troubleshooting — 2

Symptom	Likely cause	Safe action
Brine tank overfills	Blocked drain, injector restriction, leaking brine valve/float or incorrect refill setting	Bypass the unit; inspect drain flow and have the injector/float/setting serviced.
Continuous drain flow	Valve piston/seals jammed, motor/drive fault or interrupted regeneration	Bypass and unplug the unit; do not dismantle the pressure valve without training.
Error E1/1001–E4/1004	Drive cannot find or reach the required position	Power-cycle once only after confirming no active regeneration; if the code returns, isolate and contact service.
Leak, unusual noise or media downstream	Loose/damaged connection, restricted drain, hydraulic shock or internal distributor fault	Stop water, bypass and depressurise the unit. Do not resume use until the cause is corrected.

WARNING: Do not dismantle the pressure valve or electrical controller unless trained and authorised. Repeated faults require competent service.

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Warranty, withdrawal and service

- The current warranty and withdrawal terms are published on Veefiltrid.ee. They may change; rely on the version in force at the time of the claim.
- Keep the proof of purchase, commissioning record and service records. This manual does not create or extend a commercial warranty.
- If a leak, electrical fault, damaged vessel, uncontrolled drain flow or persistent water-quality problem occurs, bypass and isolate the unit and contact Watex Estonia OÜ.

Current warranty and withdrawal terms

https://veefiltrid.ee/lapa/garantii-ja-taganemisoigus

Service contact

Service contact: Watex Estonia OÜ | Reti tee 11, Peetri, 75312 Harju maakond, Estonia | 58862212 | info@veefiltrid.ee | www.veefiltrid.ee

Document scope and source control

Canonical procedures and family content: SRC0053. Model values in the technical table are from the matching Veefiltrid.ee technical tabs freshly audited on 2026-09-05; they are not shipping dimensions.

Estonia edition 2026-09-05 • controlled source set recorded in the accompanying evidence package.