

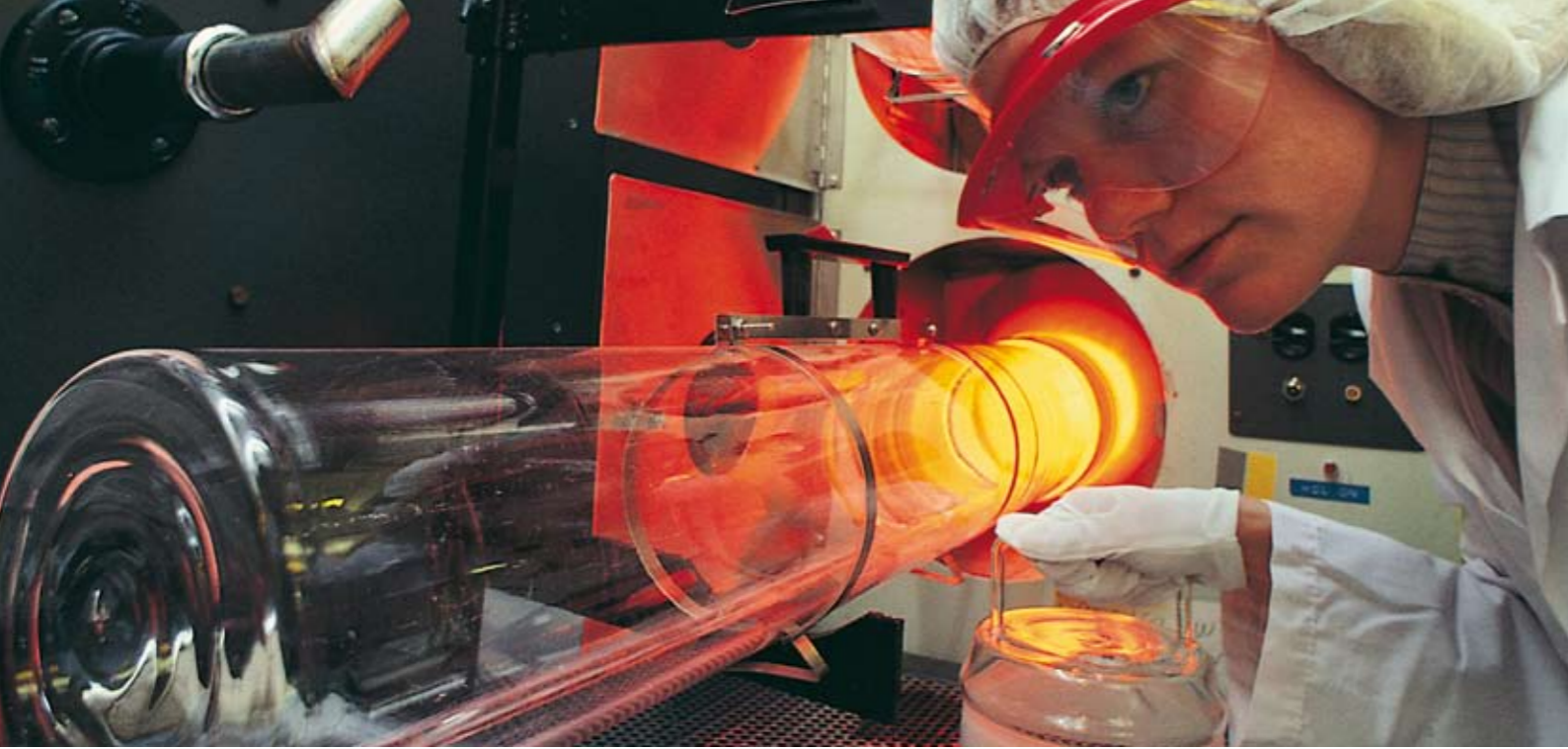
Demineralized water.



TKA Water softening systems.

For reliable water softening

TKA WATER
PURIFICATION
SYSTEMS



TKA Water softening systems. For reliable water softening.

Water softening is achieved by utilization of the well known ion exchange principle. Natural science experiments brought the knowledge that ion exchange can occur between an ion in solution and an insoluble solid substance. Procedures based on this principle have already been in use for more than 50 years in domestic technology, in trade and in industry. Cation exchangers are hereby used. They exchange hardness formers in water (calcium and magnesium ions) for sodium

ions. The systems are filled with a synthetic resin that has active exchange groups. Common salt is used to regenerate the resin.

TKA Single softening systems

TKA Single softening systems are specially designed for discontinuous use. Regeneration is automatically initiated when the exchange capacity of the ion exchanger is exhausted, whereby the time for starting regeneration (e.g.

always at 1 a.m.) is set according to the required amount.

TKA Twin softening systems

TKA twin softening systems come to use should a continuous supply of softened water be needed. The two ion exchangers ensure that softened water is always available. Regeneration is carried out immediately when one of the cartridges in use is exhausted.

Fully automatic sensor control

The size of the softening system and type of regeneration are determined by the local water quality, the daily requirements and the application that the softened water is to be used for. TKA therefore offers various softening systems and specific regeneration controls.

Time control

Regeneration of the ion exchanger is carried out at fixed set times, e.g. every 72 hours at 2 am.

Quantity control

The regeneration is carried out after production of a certain quantity of water, which can be individually set.

Sensor control

Regeneration is triggered shortly prior to a hardness breakthrough (particularly economical!). In contrast to customary controls, a measurement and control procedure that continually monitors the water hardness is hereby used.

Sensorcontroller

The Sensorcontroller SE is a control device for the monitoring and quality-controlled operation of softening systems. In contrast to customary controls, such as water volume controls, this device monitors the quantity that is of actual interest, the water hardness.



TKA single softener system Cabinett

Single softener system with time or quantity sensor control, for the production of softened water acc. to the neutralization process. All water connections are R 1".

Standard version: Type WAE with electronic time control. Version WATS with sensor control on request.

Cabinet single softener

Twin softening system

CABINETT WAE-ES (electronic time control)	40	60	80	100
Capacity, m ³ at 10 °dH	4	6	8	10
Flow rate, m ³ /h, max.	1.0	2.0	2.0	2.5
Salt stock (kg)	20	75	75	75
Height (mm)	665	1150	1150	1150
Width (mm)	320	310	310	310
Depth (mm)	450	450	450	450
Cat. no.	06.1272	06.1274	06.1276	06.1278

TKA Twin softening systems

R 1" Twin softening systems with fully automatic alternating control of mechanical water meters with automatic switch-over. Red-brass automatic

valve with 5-stage regeneration process. All water connections standardly either R 1" or R 1 1/2" (R 2" also on request).

All 230 V/50 Hz. Electronic volume control.

TKA WMS-DF-ES (electronic volume control)	60	100	200	300	300	400	600	800
Capacity, m ³ at 10 °dH	2 x 6	2 x 10	2 x 20	2 x 30	2 x 30	2 x 40	2 x 60	2 x 80
Flow rate, m ³ /h, max.	1.5	2.0	2.5	3.0	4.0	4.0	5.5	6.5
Salt stock (kg)	55	105	175	175	175	210	200	250
Connectors	R 1"	R 1"	R 1"	R 1"	R1 1/2"	R1 1/2"	R1 1/2"	R1 1/2"
Height (mm)	1080	1320	1570	1570	1890	1850	1850	1905
Width (mm)	1140	1190	1470	1470	1800	1800	1800	2460
Depth (mm)	480	500	560	560	650	650	650	900
Cat. no.	06.1282	06.1284	06.1286	06.1288	06.1200	06.1202	06.1204	06.1206



TKA Twin softening systems with hard water sensor

R 1" Twin softening systems with hard water sensor that emits signals, e.g. to switch off the user during regeneration. With fault message and switch-off of the user when there is a lack of

salt or a defect in the system. Potential-free contact for connection to a central fault collector. All water connections are R 1". All 230 V/50 Hz.

TKA WAT-DK1"	50	100	150	200	250	300
Capacity, m ³ at 10 °dH	2 x 5	2 x 10	2 x 15	2 x 20	2 x 25	2 x 30
Flow rate, m ³ /h, max.	2.0	2.5	2.8	3.5	4.0	4.0
Salt stock (kg)	55	105	120	175	175	175
Height (mm)	1300	2535	1610	1630	1790	1790
Width (mm)	1050	1185	1265	1370	1400	1590
Depth (mm)	380	490	520	580	580	770
Cat. no.	06.1350	06.1352	06.1354	06.1356	06.1357	06.1358

TKA Sensor controller for water softening monitoring

The TKA Sensor controller SE is a control unit for the monitoring and quality-controlled operation of water softening systems.

TKA Sensor controller SE	1"	1 1/2"	2"
Performance in litres	100 – 3000	3000 – 10000	5000 – 15000
Cat. no.	06.3999	06.3997	06.3998

R 1" Twin softening system with hard water sensor

R 2" Twin softening system with hard water sensor

Top mounted with inlet and outlet pipe bridge fitted with automatic switchover and electronic sensor control. Fault-triggered switch-off with hard water as well as signal output

and potential-free contact for fault messages. Connector for solenoid or membrane valve. Glass-fibre pressure container. Red brass automatic valve with 5-stage regeneration procedure.

Water connections: R 2". All 230 V/50 Hz.

Also available as electronic, volume controlled version (TKA WMS-DF2").

TKA WAT-DF2"	500	800	1000	1200	1500	2000	2500
Capacity, m ³ at 10 °dH	2 x 50	2 x 80	2 x 100	2 x 120	2 x 150	2 x 200	2 x 250
Flow rate, m ³ /h, max.	11	12	12	14	14	18	20
Salt stock (kg)	180	300	300	400	600	500	450
Height (mm)	1970	1905	2150	2150	2470	2345	2345
Width (mm)	2190	2460	2540	2540	2985	3140	3140
Depth (mm)	770	900	900	900	1200	1200	1200
Cat. no.	06.2607	06.2608	06.2609	06.2617	06.2618	06.2619	06.2620

R 2" Twin softening system with hard water sensor

Accessories for water softeners

These original TKA accessories guarantee constant water quality when used with any TKA water softener. They are particularly suitable for fulfilling the highest trade and industry demands.

Total hardness measurement with titration solution	cat. no.	06.1000
Bacteria guard for water softeners	cat. no.	06.2001
Salt tablets for water softeners (1 sack = 25 kg)	cat. no.	06.2000
Flexible connecting hose 1", with stainless steel jacketing, length 1 metre (other lengths and connections on request)	cat. no.	06.1159
Mounting block 1" with blending valve	cat. no.	06.1160
Blending valve OVP for 1" softening systems, for permanent hardness adjustment	cat. no.	15.0111
Blending valve OVP for 1 1/2" softening systems, for permanent hardness adjustment	cat. no.	15.0110



Your dealer:



TKA Wasseraufbereitungssysteme GmbH
Stockland 3
D-56412 Niederelbert
Telephone: +49 (0) 2602 / 10 69 9-0
Telefax: +49 (0) 2602 / 10 69 9-50
E-mail: info@tka.de
www.tka.de