Automatic water softener
Compact 16 and 20 litres

regeneration based on average consumption

Technical manual Compact water softener code P0011121A - Rev 1 - March 2015

VERY IMPORTANT:

Read this manual carefully before connecting to the mains supply, filling it with water or operating it. Failure to comply with these instructions will invalidate the guarantee.

CE

GB

CONTENTS

SAFETY INFORMATION

Dear Customer,

You have placed your confidence in us and you are now the owner of an automatic water softener.

We have made every effort to ensure that it gives you complete satisfaction.

This is a technical unit: read this manual carefully before installing or operating it, and prior to any work on the unit. Comply with the instructions and operating constraints. The owner of the unit should ensure that any persons having access to it are familiar with this manual and have understood it.

The unit should be installed in a clean, dry location with adequate ventilation that is inaccessible to unauthorised persons.

The unit must be protected from the weather, sources of heat and chemical vapours.

The electrical boxes should only be opened by qualified persons familiar with the dangers of electrical current - **RISK OF ELECTROCUTION**.

The operation and maintenance of the unit should be undertaken by a duly qualified person who has the required knowledge for this kind of operation.

The owner of the unit should ensure that persons working on it have appropriate tools and equipment for these operations.

Chemical products may be necessary for certain unit maintenance operations. The user must be fully aware of any risks involved in the use of these chemicals and should employ the appropriate (personal or collective protective equipment).

The unit must not be modified without the manufacturer's prior written permission.

The surfaces of the unit must not be cleaned with alcohol or an alcohol-based product, or with any product containing plastic solvents.

This unit should be maintained by a qualified person who is properly trained for these operations.

The CE label on our water softeners certifies their compliance with the requirements of:

- Directive 2004/108/CEE of 15/12/2004 regarding electromagnetic compatibility.
- Directive 2006/95/CEE of 12/12/2006 regarding electrical equipment intended for use within certain voltage limits.

Our water softeners are subject to Directive 97/23/EC of 29/05/97 concerning pressure equipment. They fulfil the requirements of article 3 point 3 (design and manufacture according to current best practice) but do not come into categories I to IV and, consequently, are not concerned by CE marking relating to pressure equipment.

ENVIRONMENTAL INFORMATION

French decree No. 2009-1139 of 22 September 2009 relating to the marketing of batteries and accumulators and to their disposal, amending the French Environment Code.

This unit contains a 3-volt lithium battery, reference CR 2450. The characteristics of this battery comply with the decree. Should it be necessary to replace the battery, an identical type of battery must be fitted.

The battery is soldered to the printed circuit board.

IMPORTANT: The hydraulic and electrical connections must comply with good professional practice and the standards applicable to where the softener is installed. In particular, if the water input and output piping is equipped with devices likely to cause water hammer, efficient water hammer preventers must be installed.

IMPORTANT: Moreover, like any electrical assembly, the control box electronics are sensitive to electrical or magnetic disturbance. The control box is fitted with a series of filters for eliminating common disturbances. However, if the unit is near power switches, transformers or any other sources of disturbance, shielded cable must be used for the connections, and a suitable suppressor fitted.

The descriptions are given in readable text. The highlighted **WARNING**, **ATTENTION** and **REMARK** areas have the following meaning:

REMARK

Indicates a special feature or important piece of information

WARNING

Risk related to the presence of electrical current

CAUTION

Risk of incorrect operation

WARNING

Risk of injury or accident

REMARK

Recyclable item

IMPORTANT: Please note the following points:

HAZARDS	RECOMMENDATIONS
ELECTRICAL HAZARDS This unit has an electric power supply.	Disconnect the unit electrically and if necessary isolate it before doing any work.
MECHANICAL HAZARDS This unit may have moving parts (e.g. centrifugal pump)	Shut down the unit, isolate it if necessary before doing any work. Do not remove the protection covers on an unit in operation. Wear suitable personal protective equipment.

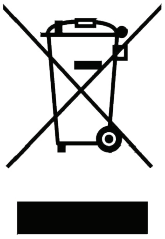
CAUTION: For your safety and that of the unit, comply with basic operating precautions and the following instructions:

- Check that the unit and its packaging have not been damaged during transport.
- Do not use the unit in the event of apparent damage and contact the dealer.

WARNING: For most electrical units, it is advisable to connect to a dedicated circuit, i.e. a single socket that only supplies the unit in question and to which no other socket or branch circuit is added.

KEEP THESE INSTRUCTIONS IN A SAFE PLACE

Disposing of your old unit



1. This symbol, representing a crossed out wheeled bin, means that the product is covered by European Directive 2002/96/EC.

2. The electrical and electronic components must be disposed of separately in special containers.

3. Disposal in compliance with these instructions will help to reduce negative consequences and any risks for the environment or human health.

INSTALLATION INSTRUCTIONS

CAUTION: Any electrical work required to install this unit must be carried out by a qualified electrician or by competent persons. Any plumbing work required to install this unit must be carried out by a qualified plumber or by competent persons.

WIRING

CAUTION: To ensure personal safety, remove the fuse from the electrical circuit or disconnect the circuit breaker before connecting to the installation. Make sure that the electrical socket is not live.

Do not use an extension cord or socket adapter with this unit. The electrical and earth connections must comply with national, regional and/or local electrical standards.

This unit must be supplied with power at suitable voltage and frequency, as specified in this manual. It must be connected to a correctly earthed individual circuit, protected by a circuit breaker or fuse that is suited to the installed unit.

The hydraulic and electrical connections must comply with good professional practice and the standards applicable to where the unit is installed.

Moreover, like any electrical equipment, the electronics are sensitive to electrical or magnetic disturbance. If the unit is near power switches, transformers or any other sources of disturbance, suitable cable should be used for the connections, and a suppressor may be fitted.

INSTALLATION

The softener and its accessories are delivered in a strapped carton.

The packaging contains:

- this assembly and maintenance manual,
- the salt tank and its cover,
- in a plastic bag, the various hoses, connection accessories and the siphon,
- the bottle containing the ion exchange resin, and the softener's hydraulic and electronic control head.

PACKAGING

LIMITS OF SUPPLY:

- The input/output connections of the softener are not supplied (see connection diagram at the end of the manual).
- The pipes of the salt tank overflow and the drain of the regeneration water are supplied.

IMPORTANT: To limit the forces on your unit in the event of water hammer, we recommend the use of flexible hoses. The softener is fitted with a check valve placed at the mains water inlet on the head connection flange.

CAUTION: Check that the valve is screwed tightly on the bottle before connecting the unit to the water supply. To tighten, turn the valve clockwise. Tighten by hand, without using tools or a lever.

Place the softener near the pipes it is connected to (water supply, soft water distribution and drain).

Check the pressure of the water supply. The unit operates at a pressure between 2 bars in dynamic and 7 bars in static (fit a pressure reducer upstream if the pressure is greater than 4 bars).

An electrical socket (single phase 230 volts +/-10% - 50/60 Hz) must be installed less than 1.2 metres from the softener for the permanent electrical supply to the control unit. Earthing is not necessary since the unit is double insulated. The maximum power consumption of the softener is 25 VA.

IMPORTANT: For safety reasons the softener's electrical supply cable cannot be replaced. If it is damaged, the complete transformer must be discarded and replaced by the transformer subassembly.

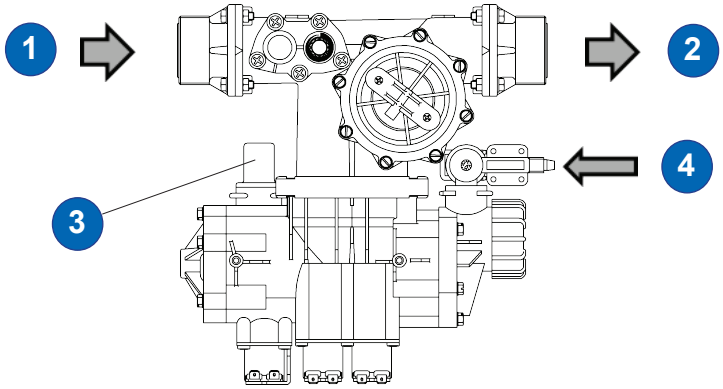
Choose a dry room, protected from frost, where there is no risk of the temperature exceeding 40°C maximum. The floor must be flat and able to support the operating loads given in the technical data section for the unit.

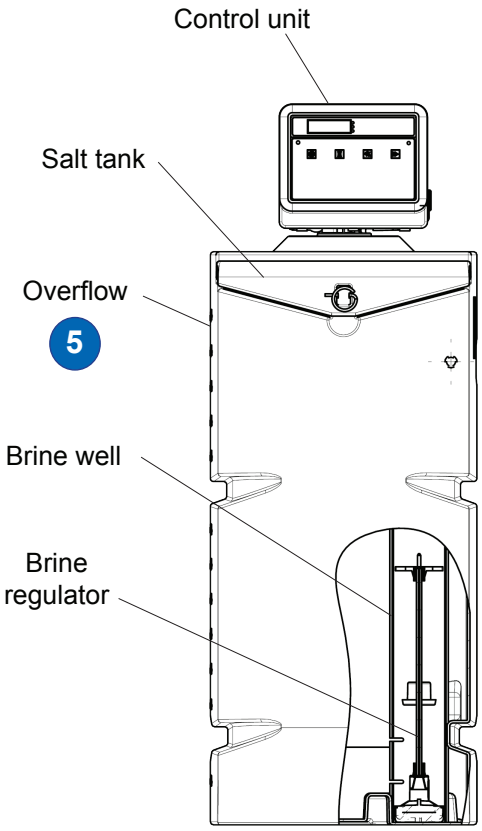
TECHNICAL DATA

Volume of resin en litres	16	20
Connection diameter: input / output	DN25 / 1”	
Operating pressure (min. / max.)	2 bars dynamic / 7 bars static	
Ion exchange capacity in °f/m3	85°f/m3	115°f/m3
Ion exchange capacity (EN 14743)	45°dH/m3	60°dH/m3
Operating flow rate	0,35 to 2 m3/h	
Salt consumption per regeneration	2000g	2500g
Water consumption per regeneration	80 to 120 L.	105 to 140 L.
Salt tank autonomy / number of regenerations	approx. 50	approx. 38
First filling of salt	135 kg	125 kg
Dimensions of the unit	1090 mm x 410 mm x 535 mm	
Packaging dimensions (height x depth x width)	1165 mm x 450 mm x 570 mm	
Loading in operation	180 kg	180 kg
Electricity supply	230 volts +10% -15% / 50 or 60 Hz	
Electricity consumption in service	6 watts	
Electricity consumption in regeneration	20 watts	
Water temperature (min. / max.)	5°C to 35°C	
Environment temperature (min. / max.)	5°C to 40°C	

CONNECTIONS

The softener head has four orifices for connections:





Filtered mains water input (1):

- Threaded end fitting 1", located on left at rear.

Softened water outlet (2):

- Threaded end fitting 1", located on right at rear.

Evacuation of regeneration water (3):

- Plastic ribbed elbow end fitting ø16 mm (on left).

Brine regulator connection (4):

- (In the salt tank) end fitting with wing nut (see drawings below).

SALT TANK

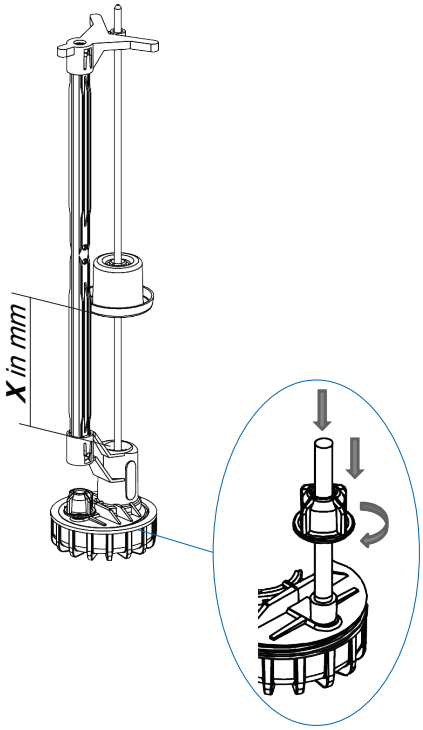
The compact softener has a special salt tank that forms a one-piece assembly with the softener body.

- With the ø6/8 flexible tube, connect the softener to the brine regulator. Slide the nut onto the tube, fit the tube correctly onto the end fitting, then tighten the nut by hand without using a tool. Check that the ends of the tube are cut correctly at right angles.

- Adjust the float of the brine regulator located in the brine well inside the one-piece tank. Set the distanceas specified in the table below and take care to pull the float rod upwards.

- After setting, put the brine regulator into the brine well to the bottom. Finally, close the brine well with the red cover and take care not to bend the ø6/8 flexible tube.

Pull the rod upwards to set the regulator



When starting up, check that the well cover is in place and add the special softener salt pellets through the filling hatch.

Add approx. 10 litres of water to prepare the brine; at least one hour is required for correct salt dilution to obtain efficient brine.

Cote X - Setting of float height

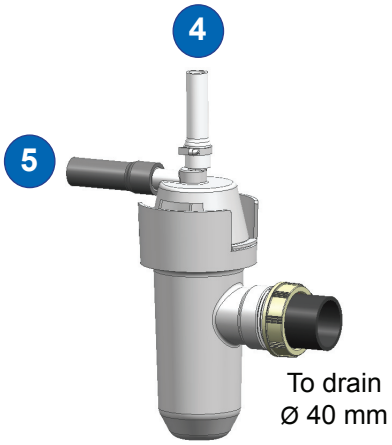
model 16 litres	80 mm
model 20 litres	110 mm

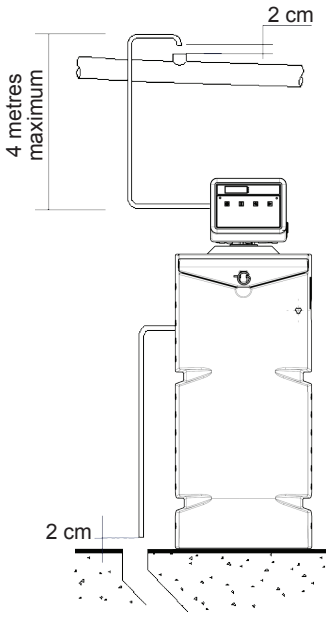
DRAIN CONNECTION

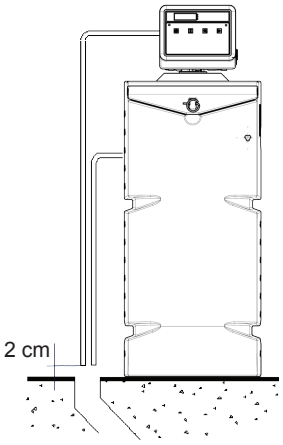
IMPORTANT: The drain connection must include a regulatory pressure break between the regeneration water drain hose and the drain pipe, to avoid any risk of pollution of the drinking water circuit by the drain system - use the siphon supplied with the unit.

In this case, the minimum mains pressure must be greater than 2.5 bars. Provide drainage for the salt tank overflow by any appropriate means.

IMPORTANT: The salt tank overflow must have gravity drainage.







BLEEDING OF THE INSTALLATION

Some precautions must be taken before the final water connection of the installation.

After any plumbing work on the pipes upstream of the softener, they must be correctly rinsed before filling the installation with water again. This means that the equipment must be removed or disconnected from the mains to perform this operation.

With the unit hydraulically and electrically connected, press button No. 1 (from left) for five seconds, then release it (see description of the control unit) Then, slowly open the upstream isolation valve.

BLEEDING THE SOFTENER

After a few seconds, a large quantity of water flows into the drain. Wait three to four minutes before stopping the regeneration by pressing buttons No. 1 and No. 2 (from left) at the same time, then release them. The water stops flowing to the drain.

If no water flows to the drain, restart the procedure.

Also bleed the salt tank water-filling pipe. Remove the salt tank filling hatch. Inside the tank, the brine well protects the regulator. Remove the red cover and press the float guide rod down. The slight resistance is due to mains pressure. When the float is at the bottom, water enters the salt tank and should stop at the previously set float level.

OPERATING PARAMETERS

To program your softener correctly it is necessary to know the mains water hardness expressed in French degrees. The analysis can be done easily with a water hardness measuring kit available from your distributor or dealer.

After analysing the hardness of the mains water, refer to the table "Volume of water produced between two regenerations" to adjust the softener's cycle.

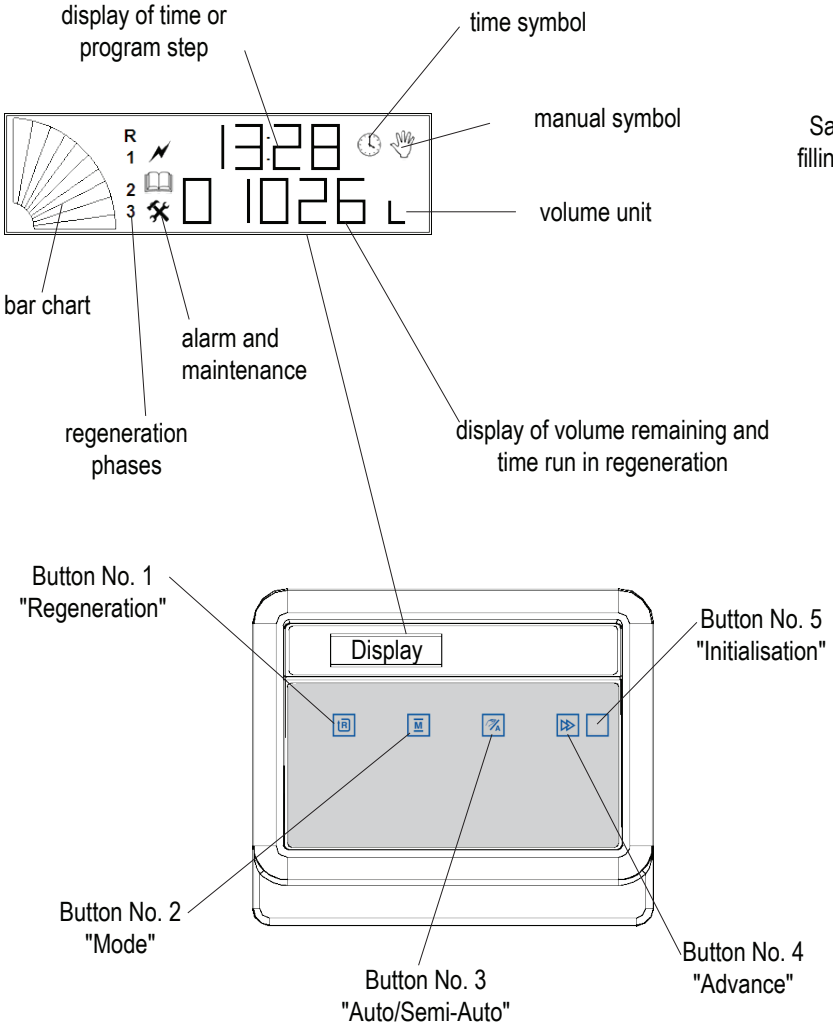
The second parameter that also needs to be known is the total regeneration duration. It is programmed according to the mains pressure.

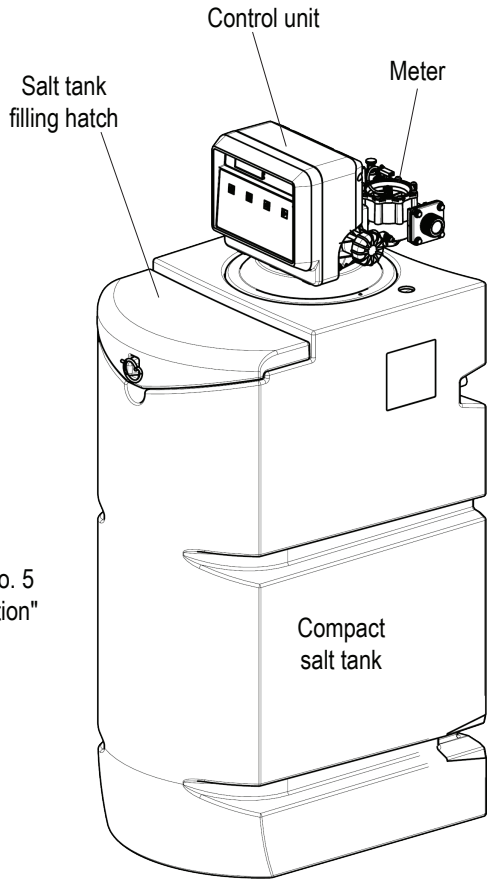
Regeneration duration	**< 4 bars**	**> 4 bars**
model 16 litres	42 minutes	33 minutes
model 20 litres	52 minutes	43 minutes

CONTROL UNIT

DESCRIPTION OF CONTROL UNIT

The softener is fitted with an electronic control unit and a lithium battery which stores the information required for correct operation for several months.





PROGRAMMING

PROGRAMMING

Each program step and the value of the parameters to be programmed are explained below.

The five setting phases are:

- time and day,
- regeneration time,
- duration of regeneration,
- softener cycle,
- average consumption.

Summary of functions of setting buttons. Press button No. 3 (from left) to move the selection indicated by the flashing digit to the right, and modify its value with button No. 4.

CAUTION: From the time when the operator starts programming with button No. 2, if there is no action on the buttons and to prevent any manipulation, saving of the programming only stays displayed for 20 seconds; after which the display automatically returns to the initial display.

The regeneration phases (described below) follow each other automatically.

1 = backwash,

2 = brine suction,

3 = slow rinse,

4 = fast rinse.

Similarly, at the end of regeneration, the salt tank receives water through the small flexible pipe of the brine regulator. This water is intended to make the brine for the next regeneration, the level is controlled by the float located inside the salt tank well.

SETTING THE CLOCK TIME AND DAY

Press button No. 2 for approx. five seconds. The display shows program step "P003" on the first line and "1.01.01" on the second line, release button No. 2.

The first digit on the display left is the day of the week (1=Monday, 2=Tuesday, 3=Wednesday, etc.). The two other digits indicate the hour and the two last digits to the right the minutes of the current time.

Set the current day and time by pressing button No. 3 to move the flashing digit and modify the value with button No. 4.

SETTING THE TIME OF REGENERATION

Press button No. 2 again to display step "P080" on the first line. When button No. 2 is released, the display shows "01-00".

Set the time of regeneration by pressing button No. 3 to move the flashing digit and modify the value with button No. 4.

SETTING THE DURATION OF REGENERATION

Press button No. 2 to display step "P050". When button No. 2 is released, the display shows "064".

Duration of regeneration see table “regeneration duration”.

Press button No. 3 to move the flashing digit and modify the value with button No. 4 to set the required duration of regeneration.

SETTING THE SOFTENER CYCLE

Press button No. 2 again to display program step "P040". When button No. 2 is released, the display shows "01000".

Set the volume of water produced between two regenerations according to the table below by the hardness of the water to be treated expressed in °f. Press button No. 3 to move the flashing digit and modify the value with button No. 4.

Hardness of water to treat											
in dH	10	11	12	13	15	17	19	21	24	26	28
in °f	18°f	20°f	22°f	24°f	26°f	30°f	34°f	38°f	42°f	46°f	50°f
Volume of water produced between 2 regenerations (litres)											
16 litres	4450	4000	3650	3350	3100	2650	2350	2100	1900	1750	1600
20 litres	5550	5000	4550	4150	3850	3350	2950	2650	2400	2150	2000

SETTING THE AVERAGE CONSUMPTION

Press button No. 2 again to display program step "P070". Release the button, the display shows "00300"

If the daily consumption is known, program the volume in litres for each day of the week (P071 = Monday, P072 = Tuesday, P073 = Wednesday, etc. to P077 for Sunday).

If the daily consumption is not known, continue to press button No. 2 to skip the various steps above of the program "P071" to "P077".

In this case, the electronics will set 300 litres average for each weekday and modify this average automatically.

END OF PROGRAMMING

Press button No. 2. When the button is released, the display shows the current time on the top line and the unit cycle "01000" on the bottom line.

IMPORTANT: The programming set above will only be fully confirmed when the first regeneration is started, either automatically by the control unit, or manually by pressing the regeneration button No. 1 (from left) for five seconds.

From this moment the parameters recorded are displayed (except for the time of day, which is displayed immediately).

CONNECTION TO THE MAINS WATER SUPPLY

Check all the connections and start a regeneration by pressing button No. 1 for at least five seconds.

The display then shows the total regeneration duration in minutes. The regeneration phases "R1 - R2 & R3" follow each other automatically. The regeneration start time is displayed alternately with the regeneration end time on the bottom line of the display.

From the start of regeneration, slowly open the softener's water inlet, bleed the air and keep closed the valve downstream of the softener.

Once the softener is bled (no air at siphon drain), stop regeneration by pressing buttons No. 1 and No. 2 at the same time, then release them. Regeneration then stops and water should not run to the drain. If this is not the case, do the operation again.

Finally open the water valve fitted downstream of the softener.

MODIFYING THE CLOCK TIME

To modify the time, go to programming mode. Press button No. 2 for five seconds, the display shows program step "P003". Release button No. 2, then modify the current time according to the procedure described on previous page "Setting the clock time and day".

Once the time is set, press button No. 2 several times until the display returns to its initial state. The display should show the new time.

NOTE: the electronics do not perform the summer and winter hour change used in some countries, this must be changed manually.

POWER OUTAGE

The softener is protected against accidental or deliberate outages, with a lithium battery included in the electronic circuit. During outages, the display disappears and no regeneration can be done; however the programming is saved and the counts continue.

If a regeneration is set to occur during the outage, it will be started automatically when power returns.

"TEST" PROGRAM

CAUTION: This test is reserved for technicians and checks operation of the softener and the different regeneration phases.

To start the "Test" program, press buttons No. 1 and No. 3 at the same time for approx. five seconds.

The softener starts regeneration automatically. The display shows "R1" and the total regeneration duration alternately with the remaining time on the bottom line.

NOTE: Regeneration in "Test" mode is not taken into account and so cannot be considered normal operation.

To go to the next regeneration phase "R2" (brine suction and slow rinse), press button No. 2 briefly. The display always shows the total regeneration time alternately with the remaining time which is shortened by the phase change.

Pressing button No. 2 again goes to the last phase of regeneration which is fast rinse "R3".

ATTENTION: this last phase should be run fully if the brine intake and slow rinse phase described above was tested for several minutes, this is to rinse inside the resin tank correctly.

If not, press button No. 2 again to end the "Test" program and return to the initial display, i.e. the current time and volume remaining between two regenerations.

AUTOMATIC STANDBY

If no water is drawn off in 24 hours, the softener automatically goes to standby (no calculation of average consumption) and the display only shows the time and existing alarms. When water is drawn off again, all the information is displayed.

SEQUENTIAL RINSE

If no soft water is drawn off, rinsing takes place automatically for two minutes after 48 hours, to renew the water in the tank of the softener.

AUTOMATIC REGENERATION - 96 HOURS

If no water is drawn off for more than 96 hours, regeneration takes place automatically on use whatever the time.

RESETTING PROCEDURE

To reset the saved programmed settings (factory programming), press buttons No. 5 "Initialisation" and No. 2 at the same time for five seconds, then release them.

Then press button No. 5, the display shows "ini 0", select "ini 1" with button No. 4, then press button No. 5 again to confirm the reset to factory programming.

Repeat the programming according to "Programming" in the "Control unit" section.

ADDITIONAL REGENERATION

To perform an additional regeneration, after exceptional water consumption, press the regeneration button No. 1 for five seconds and release it, the display shows the settings of the various regeneration phases (R1, time remaining in minutes, etc.).

This does not modify any settings, i.e. when the clock reaches the programmed time and day, regeneration takes place automatically.

SEMI-AUTOMATIC OPERATION

This operating mode is recommended for intermittent use when regenerations are started manually.

Just press button No. 3 for five seconds. The bar chart on the display left flashes and the manual symbol is displayed beside the clock.

The regeneration button No. 1 is inactive in this mode. The softener continues to produce softened water, but no automatic regeneration is started. Also it is not possible to go to programming mode, button No. 2 is inactive.

NOTE: Button No. 3 must be pressed for five seconds to exit semi-automatic mode in order to start regeneration according to the procedure described in the previous section on additional regeneration.

ADJUSTING THE SOFTENED WATER (RESIDUAL TH)

The softened water is measured with an analysis kit (not supplied), as follows:

Draw water from the softener outlet after closing the general bypass and bleeding the downstream circuit.

The softener is fitted with a blending at the rear. The blending allows hard and softened water to be mixed to create the residual hardness required by the user.

NOTE: There is no reference value for this setting. The user may choose a value between 0°f and 15°f, the latter value being used in public installations.

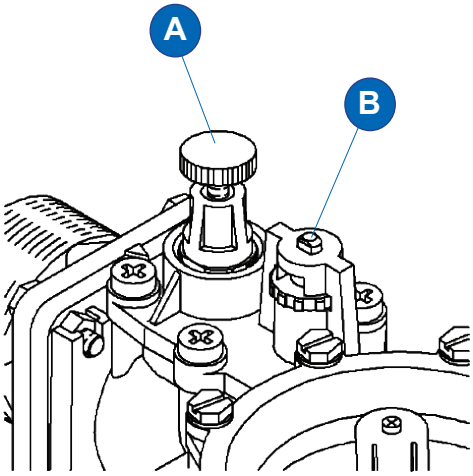
SETTING THE RESIDUAL TH

a) Fully tighten knob **B**, then unscrew it by a 1/2 or 3/4 turn.

b) Slightly open a tap on the installation downstream of the softener, and turn knob **A** anticlockwise to increase the residual TH or clockwise to reduce it.

c) When the adjustment is completed, open one or several taps fully for a large flow then tighten knob **B** if the TH is too high, and unscrew if the TH is too low.

d) The TH can be checked with an analysis kit.



STERILISATION

To prevent risks of undesirable microbiological proliferation, the softener must be sterilised with standard bleach at approx. 9.6% concentration used in the salt tank (after salt filling).

At least once every six months, take advantage of refilling the salt tank to sterilise the softener installation.

Introduce 5 ml of bleach (bleach concentrate at approx. 35-36° chlorimetry) into the brine regulator well, and then manually start regeneration by pressing button No. 1 for five seconds.

IMPORTANT: After any work on the softener water system, sterilise it as described in the paragraph above.

INCIDENTS, CAUSES AND REMEDIES

SUBJECT	INCIDENTS	CAUSES	REMEDIES
Softener control unit	Additional regeneration impossible	"Semi-automatic" mode initiated	Press the "Auto/Semi-Auto" button for five seconds, then release it. The ✋ disappears, and the bar chart stops flashing. If the fault continues call After Sales Service.
	Bar chart flashes during operation	"Semi-automatic" mode initiated	Press the "Auto/Semi-Auto" button for five seconds, then release it. The ✋ disappears, and the bar chart stops flashing. If the fault continues call After Sales Service.
		An alarm is activated	Identify the alarm symbol displayed and call After Sales service.
	Incorrect time displayed	After an outage, backup battery is out of service.	Reset the clock time and call After Sales Service if the fault continues.
	No display	Power outage	Check that the electrical socket is live. If the fault continues call After Sales Service.
	After regeneration the display shows	No detection of good brine quality at intake	Clear the fault by pressing the "Mode" button. Restart regeneration if the TH at the softener outlet is not correct. Check the presence of regenerating salt in the tank.
Abnormal water flow to drain	Abnormal water flow to drain	Solenoid valves, piston	Make sure that the unit is not in regeneration, otherwise call After Sales Service.
	Abnormal salt tank overflow	Brine regulator not properly closed, leaks.	Remove the brine regulator and check tightness. Check that connections and seals are tight and reassemble. If the fault continues call After Sales Service.
The water produced is not softened	The softener is no longer producing soft water.	Brine solenoid valve, by-pass valve, lack of salt.	Check that the various isolating and by-pass valves are in the correct positions. Check that the unit is powered-up. Check that there is salt in the salt tank. Check that the filter cartridge is not clogged.
	The TH at the softener outlet is too high.	Residual TH setting.	Check the setting of the residual TH located at the rear of the softener with the hardness test kit. Check the use-by-date on your TH kit and replace it if necessary.

MAINTENANCE AND OPERATION

Item	(1)	Action	Frequency	Comment	References of spare parts or consumables
1		Salt refilling	weekly	According to softened water consumption.	See the dealer
2		TH analysis upstream	Monthly	Adjust the residual TH setting as required (see "TH setting").	Analysis kit code P0001561A
3		TH analysis downstream			
4		Tightness inspection	Quarterly	Visual examination of the installation	
5		Filtering cartridge replacement	Half-yearly	The frequency can be shortened according to the quality of the water to be treated.	(Optional)
6		Utilisation **AQA CLEAN**			Code P0004890
7	C	Regeneration test	Yearly		
8	C	Programming check			
9	C	Internal checks of the valve and cleaning		Requires removal of the valve by a specialist.	
10		Cleaning the salt tank		The frequency can be shortened according to the quality of salt used and the water consumption.	
11	C	Replacing the piston and the membrane	Every 2 years	The frequency can be shortened according to the pressure, quality of the water and the number of regenerations.	Code P0012717
12	C	Replacing the brine intake tubing	Every 3 years	The frequency can be shortened if the tubing or the brine regulator has a visual or tightness defect.	Code P0014892 dia 6x8
13	C	Replacing the brine regulator			Code P0014854
14	C	Replacing of the solenoid valves	Every 5 years	The frequency can be shortened according to the pressure, quality of the water and the number of regenerations.	Code P0012711
15		Replacing the Inlet and Outlet hoses	Visual inspection		(Optional)

(1) - Service that can be done under contract.

Regular maintenance is essential to ensure that your softener functions correctly and gives you the maximum comfort and safety.

Some components are subject to normal wear and tear due to operation of the unit. These components, also called operating and/or wearing parts must be regularly replaced by a person qualified and authorised to perform this operation.

Operating and wearing parts are excluded from our general guarantee conditions. Also see our applicable guarantee conditions, "Exclusion from guarantee" paragraph.

The frequency of replacement depends on the conditions of installation and operation of the equipment. A visual examination of the unit must be made at least once a year to assess the condition of the connections, connectors, display, etc.

Our units are guaranteed from the commissioning date (see applicable guarantee conditions).

In any case, the legal guarantee applies, which obliges a professional seller to guarantee the buyer against all the consequences of hidden faults or defects of the item sold or service provided.

NOTE: The information shown above is a minimum. It may be necessary to increase maintenance frequency at different periods, depending on the quality of the water to be treated and its change over time, the nature of the location of the unit, and the presence of upstream or downstream processes.

GUARANTEES

GUARANTEES

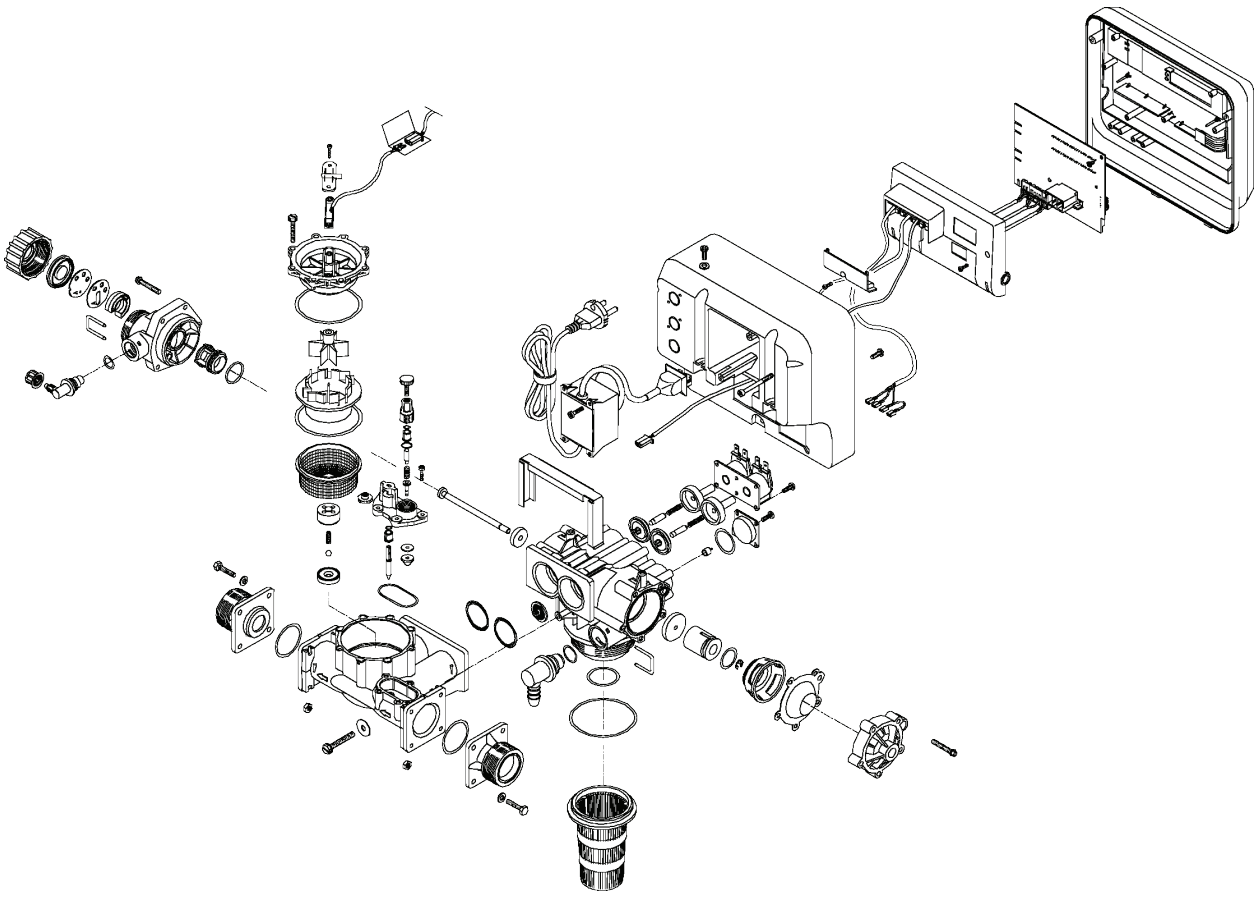
The applicable guarantee from the commissioning date is 1 YEAR for labour and travel in Metropolitan France **apart from wearing parts.**

The statutory guarantee applies in any case, and requires professional sellers to guarantee the buyer against all the consequences of hidden faults or defects in the item sold or the service provided.

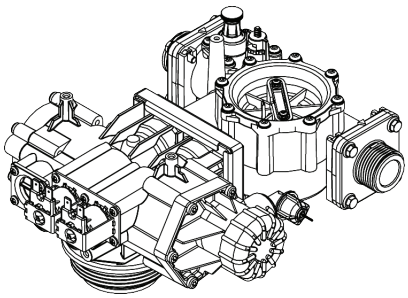
GUARANTEE EXCLUSIONS

- Any use other than for drinking water.
- Any use which does not comply with the technical manual supplied with the unit.
- Any lack of periodical maintenance as recommended in the manual.
- Damage caused by frost or by heat exceeding the maximum temperature given.
- Storms or any other cause of surges in the mains supply.
- Cleaning with any product other than water or not recommended by the manufacturer.
- Pressure exceeding the maximum pressure given in the technical manual.
- Splashing of any liquid.

SOFTENER VALVE DETAIL



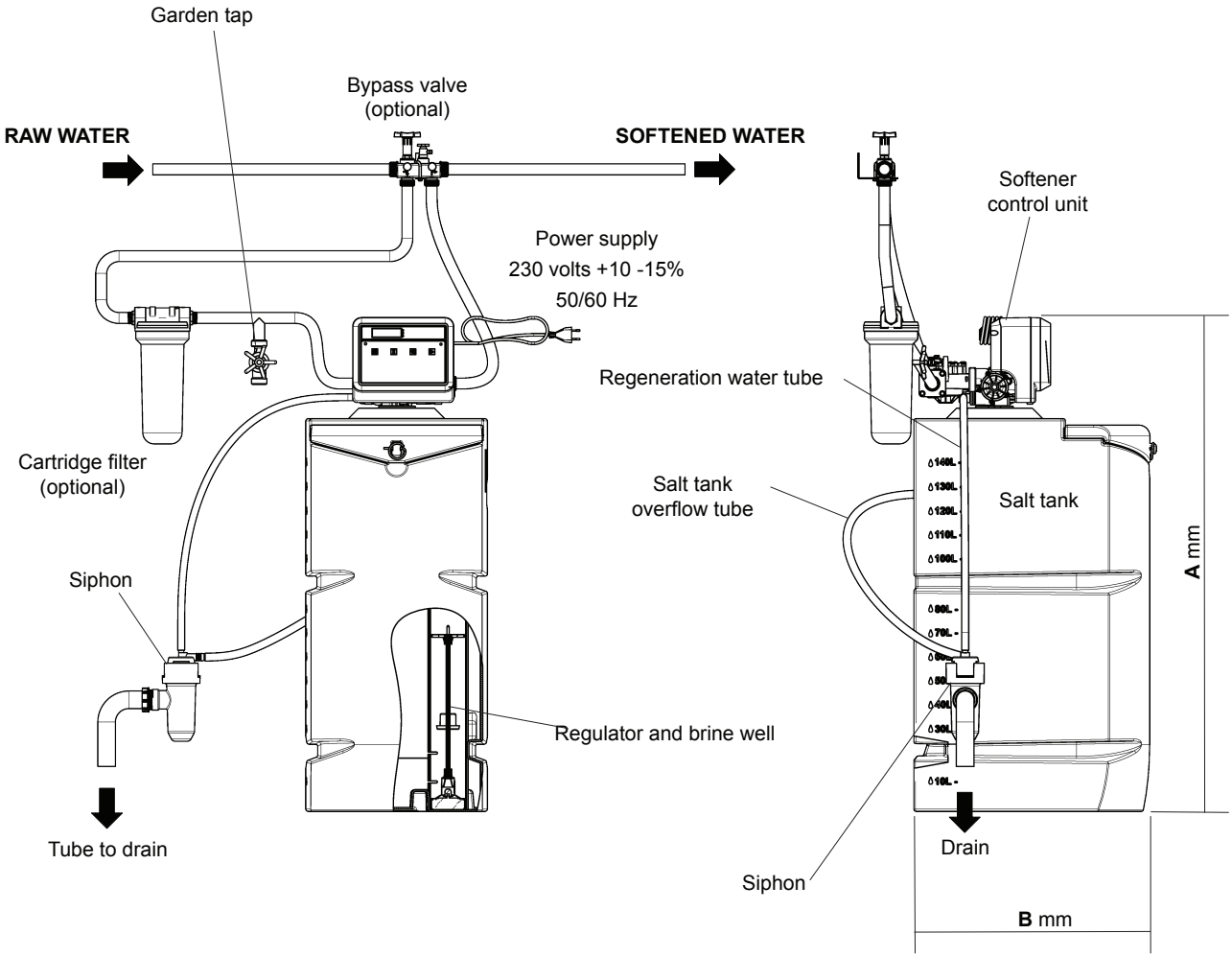
EXPLODED VIEW OF SOFTENER VALVE

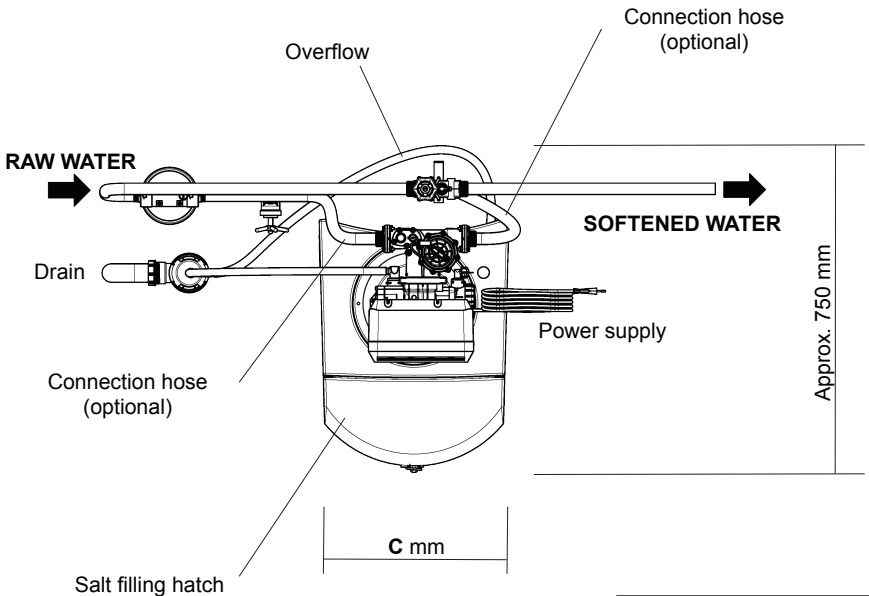


SOFTENER VALVE
(without control unit)

BRINE REGULATOR

OVERALL DIMENSIONS AND INSTALLATION DIAGRAM





	A mm	B mm	C mm
16 litres	1090	410	535
20 litres	1165	450	570

NOTES