

## MANUAL WATER SOFTENERS IV SERIES

The IV model features a semi-automated valve made in certified thermoplastic material that is suitable for coming into contact with foodstuffs and drinkable water.

This material is equipped with quick pipe fittings for a rapid and easy installation. Resin regeneration takes place by manually turning the IV valve knob in 4 different positions.

Inside the valve there is a mixing piece that gets part of hard water to reach the outflow pipe so as to make it blend with soft water.



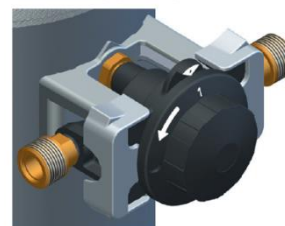
LITRES OF SOFT WATER BASED ON WATER HARDNESS						Cyclic Capacity m <sup>3</sup> .°f
°f	20	30	40	50	60	
°d	11	16	22	28	33	
ppm CaCO <sub>3</sub>	200	300	400	500	600	
<b>IV 8</b>	1680	1120	840	672	560	33.6
<b>IV 12</b>	2520	1680	1260	1008	840	50.4
<b>IV 16</b>	3360	2240	1680	1344	1120	67.2
<b>IV 20</b>	4200	2800	2100	1680	1400	84.0

TECHNICAL FEATURES				
Model	IV 8	IV 12	IV 16	IV 20
Total height h	400	500	600	900
Inlet-outlet height.	230	330	430	730
Weight in Kg	8	10	13	20
Capacity	8	12	16	20
Resin volume	5.5	9	11	14
Salt for regeneration	1.0 Kg	1.5 Kg	2.0 Kg	2.5 Kg

## TECHNICAL FEATURES

Infeed water pressure	0.1 – 0.8 MPa (1-8 bar)
Nominal flow rate	800 l/h
Room temperature	4°C – 35°C
Water pipe coupling	3/8" G- 3/4" G

3/4" G



IVL11

## INFEEED WATER FEATURESØ

Infeed water shall feature the following characteristics:

It shall be drinkable and clear

Its temperature shall range between 6°C and 25°C

Water hardness shall be lower than 900 ppm CaCO<sub>3</sub> (90°f)

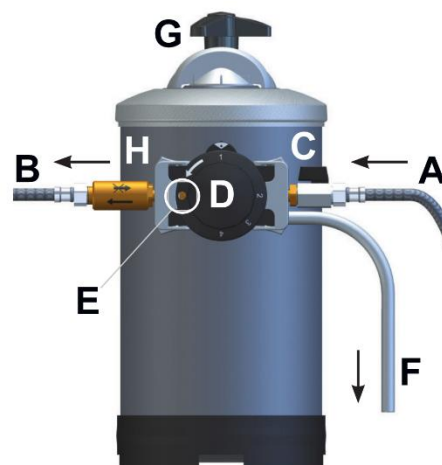
3/8" G



IVN11

## INSTALLATION DRAWIG

- A- Water inlet pipe
- B- Water outlet pipe
- C- Water inlet tap
- D- IV Valve
- E- Mixing piece
- F- Drain pipe
- G- Lid knob
- H- Non-return valve



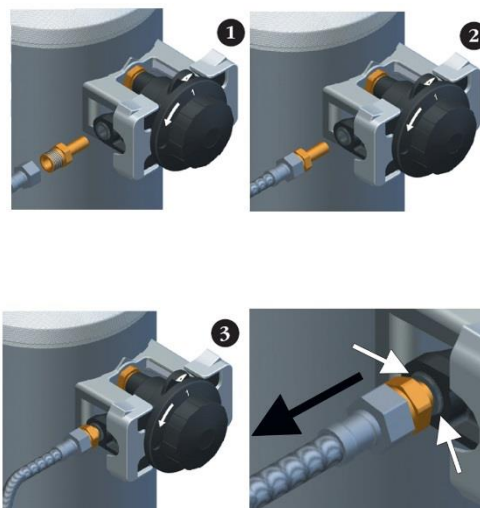
## CONNECTION TO THE WATER SUPPLY NETWORK

The user shall install a tap (C) between the water supply pipe and the softener so as to stop water from flowing into the equipment when needed as well as a non-return valve (H) so as to avoid back pressure.

Put the water drain pipe (F) directly in a water drain system.

Fix the water inlet (A) and outlet (B) pipes to the softener by using the provided pipe couplings.

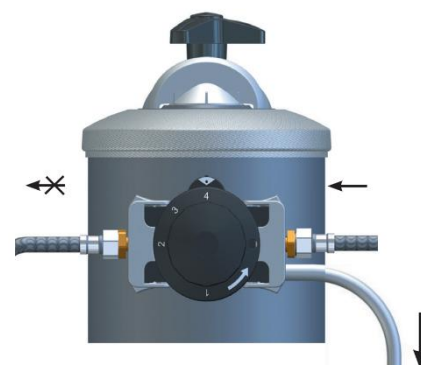
Check that the pipes are installed up to the mechanical stop in the quick pipe coupling so as to prevent pipes from slipping out of the pipe fitting.



## PUTTING INTO SERVICE

Turn the knob to position 4 - countercurrent step.

Open the water supply tap so as to make water flow until it gets clear.



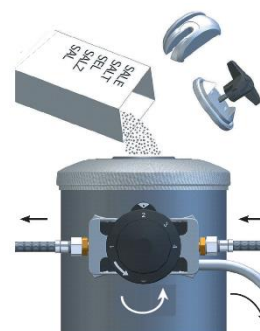
Turn the knob to position 1 - service step.  
Service step.

## RIGENERATION ON A REGULAR BASIC

Turn the IV valve knob to position 2.

Loosen the lid handle so as to release pressure.

Remove the lid and add the given amount of salt based on the actual model.



As to regeneration the exclusive use of refined salt used for foodstuff (sodium chloride-NaCl-Kitchen salt) is advisable.

Do not put in the equipment substances other than water and sodium chloride (NaCl).

Use a wet cloth to clean away any salt residues on the lid and the cylinder.

Put back the lid in its housing.

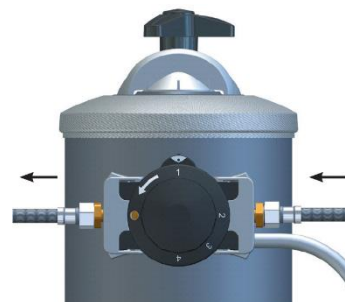
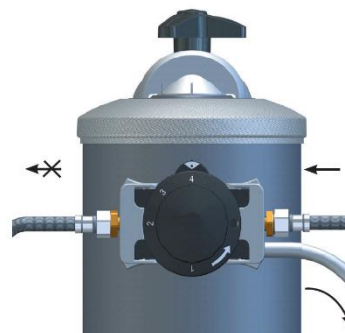
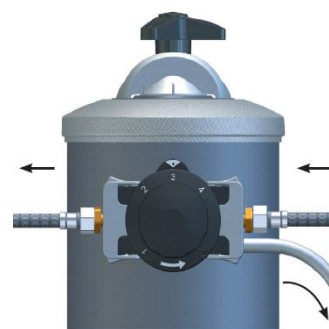
Turn the IV valve knob to position 3.  
Make salt water flow through the drain pipe for roughly 20/30 minutes.

Turn the knob to position 4 and wait for roughly 20 seconds. During this step, the softener **does not** supply soft water

Turn the knob to position 1 (service step).

Regeneration is completed.

**Note:** During a regeneration cycle, the water supplied by the softener is not soft water.





## ADJUSTING WATER HARDNESS VALUE

The 4-position knob features a screw that, when gradually loosened, can set a residual hardness of water in the supplied water.

This procedure shall carefully be carried out; furthermore, once completed, water hardness is to be checked.

Water hardness shall be checked by the installer on a regular basis



## THIS SOFTENER IS SUITABLE FOR THE FOLLOWING USE:



## KAIROS ELECTRONIC FLOWMETER ATTACHMENT

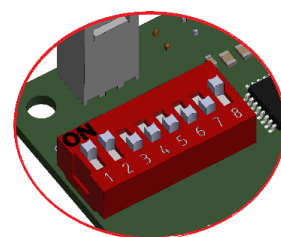
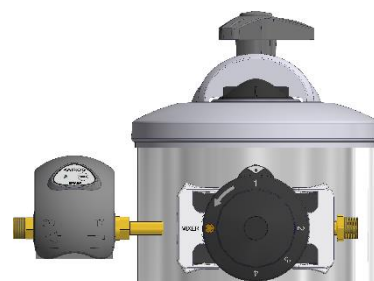
We suggest the use of Kairos in order to increase softener efficiency.

Kairos is an electronic flowmeter used to manage manual water softeners.

Soft water litres counting varies according to cylinder size and water hardness.

Water hardness and cylinder size data are set by using some inbuilt switches such setting can be changed at any time.

When soft water is supplied, Kairos can warn, thanks to a visual alarm and a buzzer, if the softener is about to run out of salt or if the cylinder capacity is over so that a regeneration cycle or cylinder replacement is needed.



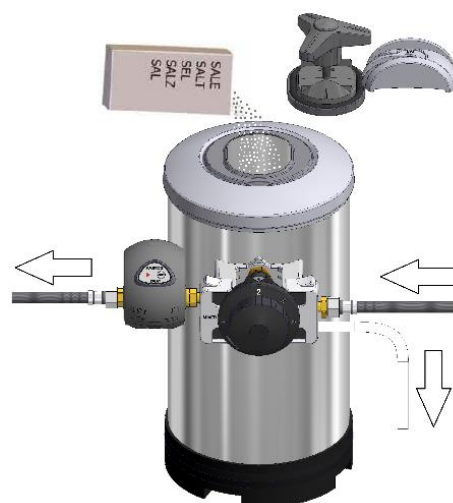
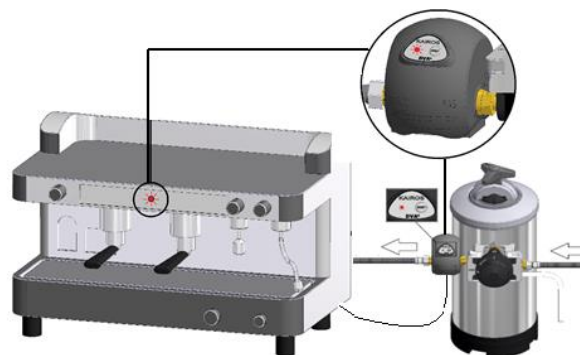
Kairos can be connected to external equipment so as to communicate the actual counting of soft water litres.

This equipment is suitable for coffee machines, dishwashers, ice-makers and steam ovens.

By counting the actual litres of supplied soft water, Kairos can help the store manager in assessing how many cups of hot beverages or coffee have been made.

Kairos is a useful device for the installer and the store manager alike as it enhances organization and planning procedures.

Regeneration is carried out without hindrances; moreover, the installer's work is streamlined in terms of service and maintenance planning.



## HYGIENIC SAFETY NORMS AND ICIM TESTING

This equipment has been tested by the ICIM Institute of Italian Certified for the Mechanic, licensed credited laboratory, certificated to the compliance with:

- **Reg. n.1935/2004/CE** products and component contact with elements according to the dispositions MOCA.
- **D.M. n.174/2004** products and component utilised in contact with feed water.

It is **NECESSARY** to use original replacements for repairs and maintenance, to guarantee hygienic safety.



**CODE ORDER:**

**IVN11 = IV8** WATER SOFTENER WITH CONNECTION 3/8"G

**IVL11 = IV8** WATER SOFTENER WITH CONNECTION 3/4"G

**IVN21 = IV12** WATER SOFTENER WITH CONNECTION 3/8" G

**IVL21 = IV12** WATER SOFTENER WITH CONNECTION 3/4"G

**IVN31 = IV16** WATER SOFTENER WITH CONNECTION 3/8"G

**IVL31 = IV16** WATER SOFTENER WITH CONNECTION 3/4"G

**IVN41 = IV20** WATER SOFTENER WITH CONNECTION 3/8"G

**IVL41 = IV20** WATER SOFTENER WITH CONNECTION 3/4"G