

# SOFTENING

## Cabinet softeners reduced water and salt consumption

### ECOCOMPACT

Small cabinet softeners made for residential applications. They can be used with tap water, and are equipped with special mono-sphere cationic resins with very high kinetic. These features allow high flow rates with the same volume of resin and an upflow regeneration in a really short amount of time (< 30'), with a considerable saving of water and salt. The smallest model (ECO6) is suitable for use under the kitchen sink and can easily meet the needs of a family of 4. The larger models (ECO 10) are suitable for larger loads (large houses or restaurants) or water with high hardness (> 35 °f). Upflow regeneration is controlled by the valve Fleck 5600 with electronic programmer SXT, time clock (T series) or volumetric/metered demand (V series).

All models are equipped with:

- brine valve to avoid loss of water from the cabinet;
- water hardness controller;
- by-pass;
- resins disinfection system during regeneration.



ECO TOP 10



ECO 10



By Pass detail

#### DIMENSIONS

Model	Cabinet dimensions			Weight (Kg)
	l (mm)	h (mm)	d (mm)	
ECO6	220	560	430	10
ECO10	350	670	605	20
ECO-TOP10	334	486	721	21

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.

#### DATI TECNICI

Model	Resins (l)	Valve	I/O connections	Flow rate* (m³/h)	Peak flow** (m³/h)	Capacity*** (m³ x 1°F)	Salt per regen. (kg)	Water cons. per regen. (l)	Brine tank (l)
ECO6	6	FL5600SXT	1"	1,4	<0,5	1,6	0,8	30	9
ECO10	10	FL5600SXT	1"	2,5	<0,5	3,1	1,6	60	32
ECO-TOP 10	10	FL5600SXT	1"	2,5	<0,5	3,1	1,6	60	30

Note > Working pressure 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\*There can be moderate leakage of hardness <2°F

\*\* There can be leakage of hardness <to 4°F

\*\*\* Capacity refers to regeneration with 140 g of sodium chloride per liter of resin

Data refers to drinking water with hardness 35°F, temperature 20°C, salinity 600ppm.

- ➔ **USES 95% LESS WATER FOR REGENERATION**
- ➔ **CONSUMES 60% LESS SALT**
- ➔ **REDUCES TIME FOR REGENERATION BY AT LEAST 30 MINUTES**
- ➔ **RESINS DISINFECTION SYSTEM AND BY PASS AS STANDARD**

#### Code

ECO6TFL5600SXT	
ECO6VFL5600SXT	
ECO10TFL5600SXT	
ECO10VFL5600SXT	
ECO-TOP10TFL5600SXT	
ECO-TOP10VFL5600SXT	

#### Euro


## Cabinet softeners with ion exchange resins, residential users

They are made of:

- Shockproof plastic cabinet, salt dissolver well and grate in the TOP-CAB models;
- fibreglass pressure tank food grade certified;
- ion exchange resins, regenerable with sodium chloride;
- multifunction valves Pentair, Autotrol, Fleck or Siata (see page 106) designed with time clock or volumetric regeneration control.

The T-series is a timer controlled softener that will regenerate resins at the pre-set number of days regardless of the volume of water used; the V series is a volume-controlled softener that will regenerate when a pre-set volume of water has been used (see valve characteristics page 106).

Softeners supply hard water during regeneration.

Through the microswitch kits (optional) you can acquire a volt-free contact when the system is in regeneration (e.g. to block the supply of water in use, to start pumps, close valves, and to turn off downstream installations etc.).  
Tested and certified for drinking water.

Optional accessories (see pages. 122/123/124):

- resins disinfection system IDROCLOR 1;
- auxiliary microswitch kit for regeneration signal;
- by pass;
- flexible in-out connection kit 1", length 35 cm.



COMPACT25



COMPACT8



MICRO4



TOP CAB



### DIMENSIONS

Model	Cabinet dimensions			Weight (Kg)
	L (mm)	h (mm)	D (mm)	
MICRO4	220	560	430	10
COMPACT 8	350	670	605	20
COMPACT 16	350	1130	605	28
COMPACT 25	350	1130	605	36
TOPCAB8	334	486	721	21
TOPCAB16	334	486	1176	29
TOPCAB25	334	486	1176	37

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.

The TOP CAB series has been designed to allow the clear separation of the pressure tank from the cabinet in order to easily carry out all maintenance, installation and sanitizing of the brine compartment. Moreover, the brine compartment include a salt dissolver well with grate for a more effective regeneration of the resins.

### TECHNICAL DATA

Model	Resins (l)	Valve	I/O connections	Flow rate		Peak flow*** (m³/h)	Capacity ****(m³x1°F)	Salt to regen. (kg)	Brine tank (l)		
				potable use* (m³/h)	industrial use** (m³/h)						
MICRO 4	4	RXN4GX255-FL5600-FL5600SXT	1"	0,3	<0,5	0,2	<0,5	0,7	24	0,6	9
COMPACTTOPCAB 8	8	RXN4GX255-FL5600-FL5600SXTSI132	1"	0,5	<0,5	0,4	<0,5	0,8	48	1,1	30
COMPACTTOPCAB 16	16	RXN4GX255-FL5600-FL5600SXTSI132	1"	1,0	<0,5	0,6	<0,5	1,6	96	2,2	50
COMPACTTOPCAB 25	25	RXN4GX255-FL5600-FL5600SXTSI132	1"	1,6	<0,5	0,8	<0,5	2,4	150	3,5	50

Working pressure 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\* There can be leakage of hardness <4°f.

\*\* There can be leakage of hardness < 2°f.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35°f, temperature 20°C, total salinity 600ppm.

Code	Euro	Code	Euro
<b>AUTOTROL CABINETS</b>		<b>FLECK 5600 CABINETS</b>	
MICRO4FLGX255		MICRO 4FFL5600	
MICRO4VFLGX255		MICRO 4VFL5600	
COMPACT8FLGX255		COMPACT8FFL5600	
COMPACT8VFLGX255		COMPACT8VFL5600	
COMPACT16FLGX255		COMPACT16FFL5600	
COMPACT16VFLGX255		COMPACT16VFL5600	
COMPACT25FLGX255		COMPACT25FFL5600	
COMPACT25VFLGX255		COMPACT25VFL5600	
<b>FLECK 5600SXT CABINETS</b>		<b>RUNXIN CABINETS</b>	
MICRO 4TFL5600SXT		MICRO4TV-RXN	
MICRO 4VFL5600SXT		COMPACT8TV-RXN	
COMPACT8TFL5600SXT		COMPACT16TV-RXN	
COMPACT8VFL5600SXT		COMPACT25TV-RXN	
COMPACT16TFL5600SXT			
COMPACT16VFL5600SXT			
COMPACT25TFL5600SXT		<b>Code</b>	<b>Euro</b>
COMPACT25VFL5600SXT		COMPACT8TFSI132	
		COMPACT8VFSI132	
<b>TOP CAB AUTOTROL</b>		<b>SIATA CABINETS</b>	
TOP CAB 8FLGX255		COMPACT16FSI132	
TOP CAB 8VFLGX255		COMPACT16VFSI132	
TOP CAB 16FLGX255		COMPACT25FSI132	
TOP CAB 16VFLGX255		COMPACT25VFSI132	
TOP CAB 25FLGX255		<b>Code</b>	<b>Euro</b>
TOP CAB 25VFLGX255		TOP CAB 8TFL5600	
		TOP CAB 8VFL5600	
<b>TOP CAB RUNXIN</b>		<b>TOP CAB FLECK5600</b>	
TOP CAB 8TV-RXN		TOP CAB 16TFL5600	
TOP CAB 16TV-RXN		TOP CAB 16VFL5600	
TOP CAB 25TV-RXN		TOP CAB 25TFL5600	
		TOP CAB 25VFL5600	
<b>TOP CAB FLECK5600SXT</b>		<b>TOP CAB SIATA</b>	
TOP CAB 8TFL5600SXT		TOP CAB 8TFSI132	
TOP CAB 8VFL5600SXT		TOP CAB 8VFSI132	
TOP CAB 16TFL5600SXT		TOP CAB 16TFSI132	
TOP CAB 16VFL5600SXT		TOP CAB 16VFSI132	
TOP CAB 25TFL5600SXT		TOP CAB 25TFSI132	
TOP CAB 25VFL5600SXT		TOP CAB 25VFSI132	

## Softeners residential users

Ion exchange water softeners for residential users and small industries.

They are made of:

- fibreglass pressure tank food grade certified;
- ion exchange resins food grade certified regenerable with sodium chloride;
- multifunction valves Pentair, Autotrol, Fleck or Siata (see side of page) time clock or volumetric (metered-demand, or meter delayed demand) regeneration control.
- PE brine tank w/brine well

The T-series is a timer controlled softener that will regenerate resins at the pre-set number of days regardless of the volume of water used; the V series is a volume-controlled softener that will regenerate when a pre-set volume of water has been used. Softeners supply hard water during regeneration. Through the microswitch kits (optional) you can acquire a volt-free contact when the system is in regeneration (e.g. to block the supply of water in use, to start pumps, close valves, and to turn off downstream installations etc.). Tested and certified and for drinking water.

Optional accessories (see pages. 122/123/124):

- resins disinfection system IDROCLOR 1;
- auxiliary microswitch kit for regeneration signal;
- by pass;
- flexible in-out connection kit 1", length 35cm.

### Valve Selection Guide

Series **LGX 255** and **LGX 268** with Autotrol LOGIX valve electronic timer, T series (time clock), V series (metered-demand). Modern valve with large LCD display, easy to understand electronics, with the possibility to fix the days and times of regeneration and to change the timing and level of resin regeneration. The volumetric version



performs the regeneration on the water usage with statistical calculations based on the consumption of water during the days of the week.

Series **FL5600** with Fleck valve electromechanical timer (T series max 1 regeneration a day) or volumetric (V series with easy setup of capacity and Day Override). Extremely easy to program by the 2 program wheels. Regeneration duration fixed 120'.



Series **FL5600SXT** with Fleck valve electronic timer; T series (time clock), V series (metered-demand or m). New valve with LCD display, simplified electronics, with the possibility to fix the days and times of regeneration, to schedule a forced regeneration and change the timing of the cycles of regeneration of the resins.



Series **RXN** with Runxin electrical valve, color display, time or volumetric counterflow regeneration and auxiliary contact when the system is in regeneration.



Series **SI 132** with Siata valve and electronic programmer SFE, T series (time clock), V series (metered-demand). New and sophisticated Siata timer. There is the possibility to set regeneration at regular hourly intervals, the alarm for a lack of salt, to schedule forced regenerations and change the timing of the cycles of regeneration of the resins. In the advanced menu it is possible to access the historical statistics relative of the working of the filter.



### SOFTENERS FLECK 5600

Code	Euro
R16TFL5600	
R16VFL5600	
R25TFL5600	
R25VFL5600	
R35TFL5600	
R35VFL5600	
R50TFL5600	
R50VFL5600	
R75TFL5600	
R75VFL5600	

### SOFTENERS FLECK 5600 SXT

Code	Euro
R16TFL5600SXT	
R16VFL5600SXT	
R25TFL5600SXT	
R25VFL5600SXT	
R35TFL5600SXT	
R35VFL5600SXT	
R50TFL5600SXT	
R50VFL5600SXT	
R75TFL5600SXT	
R75VFL5600SXT	

### SOFTENERS RUNXIN

Code	Euro
R16TV-RXN	
R25TV-RXN	
R35TV-RXN	

### SOFTENERS SIATA

Code	Euro
R16TSI132	
R16VSI132	
R25TSI132	
R25VSI132	
R35TSI132	
R35VSI132	
R50TSI132	
R50VSI132	
R75TSI132	
R75VSI132	
R100TSI132	
R100VSI132	
R125TSI132	
R125VSI132	
R175TSI132	
R175VSI132	

### SOFTENERS AUTOTROL

Code	Euro
R16FLGX255	
R16V-LGX255	
R25FLGX255	
R25V-LGX255	
R35FLGX255	
R35V-LGX255	
R50FLGX255	
R50V-LGX255	
R75FLGX268	
R75V-LGX268	
R100FLGX268	
R100V-LGX268	
R125FLGX268	
R125V-LGX268	

### TECHNICAL DATA

Model	Resins (l)	Valve	I/O connections	Flow rate		Peak flow*** (m³/h)	Capacity**** (m³x1°F)	Salt to regen. (kg)	Brine tank (l)		
				potable use* (m³/h)	industrial use** (m³/h)						
R16	16	RXN-LGX255-FL5600-FL5600SXT-SI132	1"	1,0	<0,5	0,6	<0,5	1,6	96	2,2	100
R25	25	RXN-LGX255-FL5600-FL5600SXT-SI132	1"	1,6	<0,5	0,8	<0,5	2,4	150	3,5	100
R35	35	RXN-LGX255-FL5600-FL5600SXT-SI132	1"	2,1	<0,5	0,9	<0,5	3,2	210	4,9	100
R50	50	LGX255-FL5600-FL5600SXT-SI132	1"	2,8	<0,8	1,4	<0,5	4,1	300	7,0	100
R75	75	LGX268-FL5600-FL5600SXT-SI132	1"	3,8	<1	2,2	<0,5	4,3	450	10,5	100
R100	100	LGX268-SI132	1"	5,0	<1,0	3,0	<0,6	6,5	600	14,0	200
R125	125	LGX268-SI132	1"	5,6	<1,3	3,8	<0,6	7,3	750	17,5	200
R175	175	SI132	1"	7,0	<1,5	5,3	<1,1	8,4	1050	24,5	300

Working pressure 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\* There can be leakage of hardness <4°f.

\*\* There can be leakage of hardness < 2°f.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35°, temperature 20°C, total salinity 600ppm.

Starting from the model R100 the equipment is supplied with filter material and the valve apart, unless otherwise indicated at the time of ordering.

### DIMENSIONS

Model	Resin columns		Brine tank		Weight (Kg)
	Ø (mm)	h (mm)	Ø (mm)	h (mm)	
R16	210	1110	480	680	25
R25	257	1140	480	680	33
R35	257	1330	480	680	42
R50	257	1600	480	680	54
R75	334	1590	480	680	76
R100	369	1860	570	1060	105
R125	406	1860	570	1060	135
R175	469	1890	700	1130	180

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.

## Softeners RA with Fleck valves

Ion exchange water softeners RA series for civil applications and small industries with timer Fleck valves

They are made of:

- fibreglass pressure tank food grade certified; or
- epoxy painted steel tank (series RA-SV) with a special anti-corrosion interior food grade certified;
- ion exchange resins food grade certified, regenerable with sodium chloride;
- multifunction valves Fleck 7700, 2850 and 2910 (see side of page);
- time clock or volumetric (metered-demand, or meter delayed demand) regeneration control SXT. Possibility of changing the time of the cycles of regeneration of the resins, and to programme a forced regeneration cycle (calendar override). The timer displays the days, or the volume of water remaining before going on to regenerate, you can start a manual regeneration immediately, and advance the cycles for fast start up and testing;
- The T-series is a timer controlled softener that will regenerate resins at the pre-set number of days regardless of the volume of water used; the V series is a volume-controlled softener that will regenerate when a pre-set volume of water has been used.
- PE brine tank w/brine well and brine valve AIR-CHECK;
- distribution system made of PVC and polypropylene top and bottom distributor;

Softeners supply hard water during regeneration.

Optional accessories (see pages. 122/123):

- resins disinfection system IDROCLOR 1 or IDROCLOR 2;
- auxiliary microswitch kit for regeneration signal.

### Valve Selection Guide

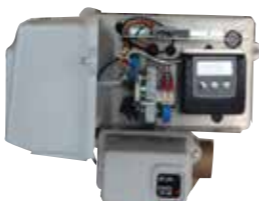
Fleck valve 7700 SXT, with electronic programmer with LCD display, Noryl valve body, I/O connections EU 1"1/4, adjustable cycles, time clock or volumetric (metered-demand, or meter delayed demand) co-current regeneration, flow rate up to 8,1 m<sup>3</sup>/h, peak flow 10,5 m<sup>3</sup>/h, provides hard water during regeneration.



Fleck valve 2850 SXT, with electronic programmer with LCD display, Bronze valve body, I/O connections 1"1/2, adjustable cycles, time clock or volumetric (metered-demand, or meter delayed demand) co-current regeneration, flow rate up to 11,6 m<sup>3</sup>/h, peak flow 15,0 m<sup>3</sup>/h, provides hard water during regeneration.



Fleck valve 2910 SXT, with electronic programmer with LCD display. Bronze valve body, I/O connections 2", adjustable cycles, time clock or volumetric (metered-demand, or meter delayed demand) co-current regeneration, flow rate up to 24,0 m<sup>3</sup>/h, peak flow 31,0 m<sup>3</sup>/h, provides hard water during regeneration.



### TECHNICAL DATA

Model	Resins (l)	Valve	I/O connections	Flow rate		Peak flow*** (m <sup>3</sup> /h)	Capacity**** (m <sup>3</sup> x1°F)	Salt per regen. (kg)	Brine tank (l)		
				potable use* (m <sup>3</sup> /h)	industrial use** (m <sup>3</sup> /h)						
RA100-FL7700	100	7700 SXT	1"1/4	5,00	<0,8	3,0	<0,6	7,0	600	14,0	200
RA125-FL7700	125	7700 SXT	1"1/4	5,60	<0,8	3,8	<0,6	7,9	750	17,5	200
RA175-FL7700	175	7700 SXT	1"1/4	7,40	<0,8	5,3	<0,6	10,2	1050	24,5	300
RA175-FL2850	175	2850 SXT	1"1/2	7,40	<0,8	5,3	<0,6	11,0	1050	24,5	300
RA225-FL7700	225	7700 SXT	1"1/4	8,10	<1,5	6,8	<1,2	10,5	1350	31,5	300
RA225-FL2850	225	2850 SXT	1"1/2	9,00	<0,8	6,8	<0,6	11,7	1350	31,5	300
RA300-FL2850	300	2850 SXT	1"1/2	10,50	<1,6	9,0	<1,2	13,2	1800	42,0	300
RA350-FL2910	350	2910 SXT	2"	12,25	<0,8	10,5	<0,6	15,9	2100	49,0	500
RA500-FL2910	500	2910 SXT	2"	17,50	<0,8	15,0	<0,6	21,0	3000	70,0	500
RA-SV300-FL2850	300	2850 SXT	1"1/2	10,50	<1,6	9,0	<1,2	13,2	1800	42,0	300
RA-SV350-FL2910	350	2910 SXT	2"	12,25	<0,8	10,5	<0,6	15,9	2100	49,0	500
RA-SV500-FL2910	500	2910 SXT	2"	17,50	<0,8	15,0	<0,6	21,0	3000	70,0	500

Working pressure 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\* There can be leakage of hardness <4°f.

\*\* There can be leakage of hardness < 2°f.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35°, temperature 20°C, total salinity 600ppm.

The equipment is supplied with filter material and the valve apart unless otherwise indicated at the time of ordering.

### DIMENSIONS

Model	Resin columns		Brine tank		Weight (Kg)
	Ø (mm)	h (mm)	Ø (mm)	h (mm)	
RA100-FL7700	369	1865	570	1060	105
RA125-FL7700	406	1865	570	1060	135
RA175-FL7700	469	1890	700	1130	180
RA175-FL2850	469	1910	700	1130	180
RA225-FL7700	533	1790	700	1130	225
RA225-FL2850	533	1810	700	1130	225
RA300-FL2850	610	2320	700	1130	295
RA350-FL2910	610	2440	900	1160	335
RA500-FL2910	770	2550	900	1160	510
RA-SV300-FL2850	600	2200	900	1160	355
RA-SV350-FL2910	600	2320	900	1160	395
RA-SV500-FL2910	800	2420	900	1160	560

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.



Code	Euro	Code	Euro
RA100-FL7700		RA300-FL2850	
RA100-FL2850		RA300-FL7700	
RA125-FL7700		RA350-FL2910	
RA125-FL2850		RA350-FL7700	
RA175-FL7700		RA500-FL2910	
RA175-FL2850		RA500-FL7700	
RA225-FL7700		RA-SV300-FL2850	
RA225-FL2850		RA-SV300-FL7700	
RA225-FL7700		RA-SV350-FL2910	
RA225-FL2850		RA-SV350-FL7700	
RA225-FL7700		RA-SV500-FL2910	
RA225-FL2850		RA-SV500-FL7700	

## Softeners RA with Siata valves

Ion exchange water softeners series RA for civil applications and small industries with Siata valves.

They are made of:

- fibreglass pressure tank food grade certified; or
- epoxy painted steel tank (series RA-SV) with a special anti-corrosion interior food grade certified;
- ion exchange resins food grade certified, regenerable with sodium chloride;
- multifunction valves Siata 230 and 250 (top mounted);
- Siata 360 (side mounted)
- time clock or volumetric (metered-demand, or meter delayed demand) regeneration control SIATA SFE. Possibility of changing the time of the cycles of regeneration of the resins, and to programme a forced regeneration cycle (calendar override). The timer displays the alarm for lack of salt, the days, or the volume of water remaining before going on to regenerate, you can start a manual regeneration immediately, and advance the cycles for fast start up and testing; The T-series is a timer controlled softener that will regenerate resins at the pre-set number of days regardless of the volume of water used; the V series is a volume-controlled softener that will regenerate when a pre-set volume of water has been used.
- PE brine tank w/brine well and brine valve;
- distribution system from PVC and polypropylene top and bottom distributor;

Softeners supply hard water during regeneration.

Tested and certified and for drinking water.

Optional accessories (see pages. 122/123):

- resins disinfection system IDROCLOR 1 or IDROCLOR 2;
- auxiliary microswitch kit for regeneration signal;

### Valve Selection Guide

Siata valve 230, with SFE electronic programmer with LCD display, ABS and fibreglass valve body, I/O connections 1"1/4, adjustable cycles, time clock or volumetric (metered-demand, or meter delayed demand) co-current regeneration, flow rate up to 10,5 m<sup>3</sup>/h, peak flow 12,6 m<sup>3</sup>/h, max amount of regenerable resins 300 l, provides hard water during regeneration.



Siata valve 250, with SFE electronic programmer with LCD display, ABS and fibreglass valve body, I/O connections 1"1/2, adjustable cycles, time clock or volumetric (metered-demand, or meter delayed demand) co-current regeneration, flow rate up to 21,0 m<sup>3</sup>/h, peak flow 24,0 m<sup>3</sup>/h, max amount of regenerable resins 500 l, provides hard water during regeneration.



Siata valve 360 with SFE electronic programmer with LCD display, ABS and fibreglass valve body, I/O connections 2" (3" optional), adjustable cycles, time clock or volumetric (metered-demand, or meter delayed demand) co-current regeneration, flow rate up to 32,0 m<sup>3</sup>/h, peak flow 42,0 m<sup>3</sup>/h, max amount of regenerable resins 1200 l, provides hard water during regeneration.



### TECHNICAL DATA

Model	Resins (l)	Valve	I/O connections	Flow rate		Peak flow*** (m <sup>3</sup> /h)	Capacity**** (m <sup>3</sup> x1°F)	Salt per regen. (kg)	Brine tank (l)		
				potable use* (m <sup>3</sup> /h)	industrial use** (m <sup>3</sup> /h)						
RA100-SI230	100	SI230	1"1/4	5,0	<0,8	3,0	<0,6	7,0	600	14,0	200
RA125-SI230	125	SI230	1"1/4	5,6	<0,8	3,8	<0,6	7,9	750	17,5	200
RA175-SI230	175	SI230	1"1/4	7,4	<1,2	5,3	<1,0	9,5	1050	24,5	300
RA225-SI230	225	SI230	1"1/4	9,0	<1,6	6,8	<1,2	12,0	1350	31,5	300
RA225-SI250	225	SI250	1"1/2	9,0	<0,7	6,8	<0,6	14,3	1350	31,5	300
RA(SV)300-SI230	300	SI230	1"1/4	10,0	<1,8	9,0	<1,5	12,6	1800	42,0	300
RA(SV)350-SI250	350	SI250	1"1/2	12,3	<0,8	10,5	<0,7	17,2	2100	49,0	500
RA(SV)500-SI250	500	SI250	1"1/2	17,5	<0,9	15,0	<0,8	20,1	3000	70,0	500
RA(SV)750-SI360	750	SI360	2"	26,3	<0,8	22,5	<0,7	40,3	4500	105,0	1000
RA-SV1000-SI360	1000	SI360	2"	30,2	<0,9	28,0	<0,8	42,0	6000	140,0	1000
RA-SV1200-SI360	1200	SI360	2"	32,0	<1,1	30,0	<1,0	42,0	7200	168,0	1500

Working pressure 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\* There can be leakage of hardness <4°f.

\*\* There can be leakage of hardness < 2°f.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35°, temperature 20°C, total salinity 600ppm.

The equipment is supplied with filter material but the valve apart unless otherwise indicated at the time of ordering.

RA300-SI230

### DIMENSIONS

Model	Resin column		Brine tank		Weight (Kg)
	Ø (mm)	h (mm)	Ø (mm)	h (mm)	
RA100-SI230	369	1875	570	1060	105
RA125-SI230	406	1875	570	1060	135
RA175-SI230	469	1900	700	1130	180
RA225-SI230	533	1800	700	1130	225
RA225-SI250	533	2000	700	1130	230
RA300-SI230	610	2300	700	1130	295
RA350-SI250	610	2500	900	1160	335
RA500-SI250	770	2620	900	1160	510
RA750-SI360	920	2490	1240	1080	790
RA-SV300-SI230	600	2190	700	1130	355
RA-SV350-SI250	600	2390	900	1160	395
RA-SV500-SI250	800	2490	900	1160	560
RA-SV750-SI360	950	2250	1240	1080	890
RA-SV1000-SI360	1100	2315	1240	1080	1070
RA-SV1200-SI360	1300	2315	1220	1340	1450

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.

RA-SV500-SI250

Code	Euro	Code	Euro
RA100T-SI230		RA500V-SI250	
RA100V-SI230		RA750T-SI360	
RA125T-SI230		RA750V-SI360	
RA125V-SI230		RA-SV300T-SI230	
RA175T-SI230		RA-SV300V-SI230	
RA175V-SI230		RA-SV350T-SI250	
RA225T-SI230		RA-SV350V-SI250	
RA225V-SI230		RA-SV500T-SI250	
RA225T-SI250		RA-SV500V-SI250	
RA225V-SI250		RA-SV750T-SI360	
RA300T-SI230		RA-SV750V-SI360	
RA300V-SI230		RA-SV1000T-SI360	
RA350T-SI250		RA-SV1000V-SI360	
RA350V-SI250		RA-SV1200T-SI360	
RA500T-SI250		RA-SV1200V-SI360	

## Softeners RP and RPP series

Ion exchange softeners with diaphragm/butterfly valves- distribution system by arms collector or nozzle plate.

They are made of:

- epoxy painted steel tank with a special anti-corrosion interior food grade certified;
- ion exchange resins, food grade and regenerable with sodium chloride;
- PE brine tank w/brine well and brine valve (1);
- battery valve set composed by 5 diaphragm valves in cast iron/steel, for models up to DN100 size;
- battery valve set composed by 5 pneumatic actuated butterfly valves, for models starting from DN100 size (2).
- distribution system from PVC and polypropylene and arm collector system (up to RP3000F);
- distribution system with carbon steel nozzle plate and polypropylene nozzles (starting from RPP1500).
- AQUASTAR LOGO TD, electronic controller with LCD display and Siemens logical unit to automatically control softener regeneration;
- battery set of solenoid 3/5 way pilot valve to operate the control of diaphragm and butterfly valves.

The paint of the tanks gives absolute reliability and protection against corrosion, in compliance with the regulations on materials in contact with drinking water. The internal cycle consists of sand-blasting grade SA 2<sup>1</sup>/<sub>2</sub> to 3<sup>1</sup>/<sub>2</sub> and the application of a two-component epoxy primer. Finishing with two coats of epoxy paint (thickness 250 microns), solvent-free, non-toxic food grade; The outer cycle consists of sand-blasting grade SA 2<sup>1</sup>/<sub>2</sub> to 3<sup>1</sup>/<sub>2</sub> and application of a two-component epoxy primer. Finishing with one coat of a two-component enamel (thickness 100 microns).

(1) The larger models are supplied without a PE brine tank. In this case, it is necessary to build concrete brine tank of the appropriate size. As an option you can buy the brine tank kit.

(2) The models with battery butterfly valve set can be actuated exclusively by air dried and lubricated. If this is not present it is necessary to purchase a compressor of at least 60 l with 6 bar of pump head.

### TECHNICAL DATA

Model	Resins (l)	Valve	I/O connections	Distribution system	Flow rate		Peak flow*** (m <sup>3</sup> /h)	Capacity**** (m <sup>3</sup> x 1 °F)	Salt per regen.(kg)	Brine tank (l)		
					potable use* (m <sup>3</sup> /h)	industrial use** (m <sup>3</sup> /h)						
RP300	300	diaphragm	1"1/2	arm collector system	12,00	<1,2	9,0	<1,0	16,8	1800	42,0	300
RP350	350	diaphragm	1"1/2	arm collector system	12,25	<1,2	10,5	<1,0	17,2	2100	49,0	500
RP350M	350	diaphragm	2"	arm collector system	14,00	<1,1	10,5	<0,8	19,6	2100	49,0	500
RP500	500	diaphragm	1"1/2	arm collector system	17,50	<1,3	15,0	<1,0	24,5	3000	70,0	500
RP500M	500	diaphragm	2"	arm collector system	20,00	<1,1	15,0	<0,8	28,0	3000	70,0	500
RP750	750	diaphragm	2"	arm collector system	26,25	<1,1	22,5	<0,9	36,8	4500	105,0	800
RP750M	750	diaphragm	DN80	arm collector system	30,00	<1,0	22,5	<0,9	42,0	4500	105,0	800
RP1000	1000	diaphragm	2"	arm collector system	35,00	<1,3	30,0	<1,0	49,0	6000	140,0	1000
RP1000M	1000	diaphragm	DN80	arm collector system	40,00	<1,0	30,0	<0,8	56,0	6000	140,0	1000
RP1300	1300	diaphragm	DN80	arm collector system	52,00	<1,0	39,0	<0,8	72,8	7800	182,0	1500
RP1500	1500	diaphragm	DN100	arm collector system	60,00	<1,0	45,0	<0,8	84,0	9000	210,0	1500
RP2000	2000	diaphragm	DN100	arm collector system	80,00	<1,0	60,0	<0,8	112,0	12000	280,0	N.I.
RP1500F	1500	butterfly	DN100	arm collector system	60,00	<1,1	45,0	<0,9	84,0	9000	210,0	1500
RP2000F	2000	butterfly	DN100	arm collector system	80,00	<1,2	60,0	<0,9	112,0	12000	280,0	N.I.
RP2500F	2500	butterfly	DN125	arm collector system	100,00	<1,3	75,0	<1,0	140,0	15000	350,0	N.I.
RP3000F	3000	butterfly	DN125	arm collector system	120,00	<1,1	90,0	<0,9	168,0	18000	420,0	N.I.
RPP2000-F	2000	butterfly	DN100	nozzle plate	80,00	<1,2	60,0	<0,9	112,0	12000	280,0	N.I.
RPP2500-F	2500	butterfly	DN125	nozzle plate	100,00	<1,3	75,0	<1,0	140,0	15000	350,0	N.I.
RPP3000-F	3000	butterfly	DN125	nozzle plate	120,00	<1,1	90,0	<0,9	168,0	18000	420,0	N.I.
RPP3500-F	3500	butterfly	DN150	nozzle plate	140,00	<1,0	105,0	<0,8	196,0	21000	490,0	N.I.
RPP4500-F	4500	butterfly	DN150	nozzle plate	180,00	<1,0	135,0	<0,8	252,0	27000	630,0	N.I.

Note

Pilot solenoid valves can be feed with clean air or water.

The models with battery butterfly valve set can be actuated exclusively by air. If this is not present it is necessary to purchase a compressor of at least 60 l with 6 bar of head pump.

Working pressure 1.5 to 5 bar. Electrical feed 230 V - 50Hz. Operating temperature: 2-40 °C.

\*There can be leakage of hardness <4%.

\*\* There can be leakage of hardness < 2%.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35%, temperature 20°C, total salinity 600ppm.



The T-series is a timer controlled softener that will regenerate resins at the pre-set number of days (up to max. 3 times a day) regardless of the volume of water used ; the V series is a volume-controlled softener that will regenerate when a pre-set volume of water has been used (metered-demand, or meter delayed demand). The volume softeners are equipped with an impulse meter to measure water used during the regeneration program. During the regeneration of the resins water is not supplied. You can ask for the controller with the external impulse option. As an optional you can order the bypass valve to allow the supply of untreated water during regeneration of the resins. You can also get a contact to 24V/AC for when the system is in use for plant regeneration and other uses of the installation are necessary ( e.g. to start pumps, close valves, and to turn off downstream installations etc. ).

### DIMENSIONS

Model	Resin columns		Brine tank		Weight (kg)	
	Ø (mm)	depth w/battery set (mm)	h (mm)	Ø (mm)		
RP300	600	900	2100	700	1130	420
RP350-350M	650	950 - 980	2110	900	1160	470 - 490
RP500-500M	800	1100 - 1130	2200	900	1160	620 - 640
RP750-750M	950	1270 - 1330	2235	1080	1080	920 - 1000
RP1000-1000M	1100	1420 - 1480	2315	1240	1080	1170 - 1250
RP1300	1300	1680	2410	1220	1340	1650
RP1500	1400	1850	2460	1220	1340	1950
RP2000	1600	2050	2790	-	-	2800
RP2500	1800	2320	2930	-	-	3300
RP3000	2000	2550	3050	-	-	3800
RPP3500	2200	3000	3300	-	-	-
RPP4500	2500	3300	3400	-	-	-

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.

Nozzle plate (RPP softeners)

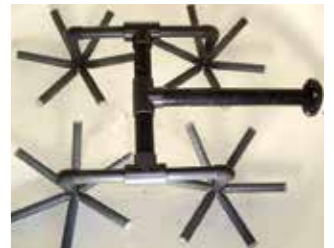


The new electronic AQUASTAR LOGO-TD programmer is designed to make the planning of regeneration as easy as possible. It consists of a watertight box made of ABS and micro PLC Siemens with interface LCD display and function keys. The 4 function keys allow you to easily start an immediate regeneration (or delay it to 2 A.M.), or to advance cycles when you do plant start-up.

The Siemens PLC has the capacity to calculate precisely the time of regeneration of the resins based on:

- desired regenerant amount (g of NaCl per resin/litre);
- ejector suction flow rate;
- quantity of resins in the softener.

Thus it is no longer necessary to carry out laborious calculations. The complete and efficient regeneration of resins is guaranteed, with the minimum use of water and as low consumption of salt as possible, eliminating any waste.



PP arm collector (RP softeners)



Code	Euro
RP300T	
RP300V	
RP350T	
RP350V	
RP350T/M	
RP350V/M	
RP500T	
RP500V	
RP500T/M	
RP500V/M	
RP750T	
RP750V	
RP750T/M	
RP750V/M	
RP1000T	
RP1000V	
RP1000T/M	
RP1000V/M	
RP1300T	
RP1300V	
RP1500T	
RP1500V	

Code	Euro
RP2000T	
RP2000V	
RP1500F-T	
RP1500F-V	
RP2000F-T	
RP2000F-V	
RP2500F-T	
RP2500F-V	
RP3000F-T	
RP3000F-V	
RPP2000F-T	
RPP2000F-V	
RPP2500F-T	
RPP2500F-V	
RPP3000F-T	
RPP3000F-V	
RPP3500F-T	
RPP3500F-V	
RPP4500F-T	
RPP4500F-V	

Optional (see pages. 122/123/124)

- resin disinfection system IDROCLOR 1 (up to 300 l of resins) or IDROCLOR 2 (over 300 l of resins);
- by-pass valve kit for supplying water during backwash;
- brine tank kit. It consists of a pump, control panel, solenoid valve and level switch. Is necessary for large systems where there is no supply to the brine tank);
- metered-demand volumetric controller with variable reserve feature (VOLUMETRIC STATISTIC), or with external impulse.

Tested and certified for drinking water.

RP750

## DUPLEX Fleck softeners

For small and medium industrial sites. These systems are capable of delivering continuously softened water without the disruptions arising from the regeneration of the resins.

They are made of:

- n. 2 fiberglass pressure tank food grade certified;
- PVC brine well and air check;
- ion exchange resins, regenerable with sodium chloride;
- automatic valves Fleck 9100 or 9500 and electronic timer SXT (see side of page);
- volumetric regeneration with softened water supplied during regeneration;

Through the microswitch kits (optional) you can acquire a volt-free contact when the system is in regeneration (e.g. to block the supply of water in use, to start pumps, close valves, and to turn off downstream installations etc. ).

Tested and certified and for drinking water.

Optional accessories (see pages. 96/97/98):

- resin disinfection system;
- auxiliary microswitch kit for regeneration signal;
- by pass;
- flexible in-out connection kit 1", length 35 cm.

### Valve Selection Guide

**Valve Fleck 9100 SXT**, equipped with electronic programmer SXT with LCD display, Noryl valve body, I/O connections 1", 6 adjustable cycles, co-current volumetric regeneration, max flow rate 6,6 m<sup>3</sup>/h, softened water supplied during regeneration.



**Valve Fleck 9500 SXT**, equipped with electronic programmer SXT with LCD display, bronze valve body, I/O connections 1"1/2, 5 adjustable cycles, co-current volumetric regeneration, max flow rate 9,2 m<sup>3</sup>/h, softened water supplied during regeneration.



### TECHNICAL DATA

Model	Resins (l)	Valve	I/O connections	Flow rate		Peak flow*** (m <sup>3</sup> /h)	Capacity**** (m <sup>3</sup> x1°F)	Salt per regen. (kg)	Brine tank (l)		
				potable use* (m <sup>3</sup> /h)	industrial use** (m <sup>3</sup> /h)						
DX16-FL9100	16 x 2	FLECK 9100 SXT	1"	1,0	<0,5	0,5	<0,5	1,5	96 x 2	2,2	100
DX25-FL9100	25 x 2	FLECK 9100 SXT	1"	1,6	<0,5	0,8	<0,5	2,4	150 x 2	3,5	100
DX35-FL9100	35 x 2	FLECK 9100 SXT	1"	2,1	<0,5	1,1	<0,5	3,2	210 x 2	4,9	100
DX50-FL9100	50 x 2	FLECK 9100 SXT	1"	2,8	<0,8	1,5	<0,5	4,2	300 x 2	7,0	100
DX75-FL9100	75 x 2	FLECK 9100 SXT	1"	3,8	<1,0	2,2	<0,5	5,7	450 x 2	10,5	100
DX100-FL9100	100 x 2	FLECK 9100 SXT	1"	4,0	<1,0	3,0	<0,6	6,0	600 x 2	14,0	200
DX125-FL9100	125 x 2	FLECK 9100 SXT	1"	5,0	<1,2	3,8	<0,6	7,5	750 x 2	17,5	200
DX175-FL9500	175 x 2	FLECK 9500 SXT	1"1/2	7,0	<1,0	5,3	<0,8	8,4	1050 x 2	24,5	300
DX225-FL9500	225 x 2	FLECK 9500 SXT	1"1/2	7,8	<1,2	6,7	<0,9	9,4	1350 x 2	31,5	300
DX325-FL9500	325 x 2	FLECK 9500 SXT	1"1/2	9,2	<1,6	8,8	<1,0	9,2	1950 x 2	45,5	500

Note

Working pressure 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\* There can be leakage of hardness <4°f.

\*\* There can be leakage of hardness < 2°f.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35°, temperature 20°C, total salinity 600ppm.

The equipment is supplied with filter material but the valve apart unless otherwise indicated at the time of ordering.

### DIMENSIONS

Model	Resin columns		Brine tank		Weight (Kg)
	Ø (mm)	h (mm)	Ø (mm)	h (mm)	
DX16	210	1110	480	680	25x2
DX25	257	1140	480	680	33x2
DX35	257	1330	480	680	42x2
DX50	257	1600	480	680	54x2
DX75	334	1590	480	680	76x2
DX100	369	1860	570	1060	105x2
DX125	406	1860	570	1060	135x2
DX175	469	1890	700	1130	180x2
DX225	533	1810	700	1130	225x2
DX325	610	2320	900	1160	295x2

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.



Code	Euro	Code	Euro
DX16-FL9100		DX100-FL9100	
DX25-FL9100		DX125-FL9100	
DX35-FL9100		DX175-FL9500	
DX50-FL9100		DX225-FL9500	
DX75-FL9100		DX325-FL9500	



## DUPLEX industrial softeners

Carbon steel duplex softeners with diaphragm/butterfly valves- distribution system by arms collector or nozzle plate. Ion exchange DUPLEX softeners DXP series for residential and industrial users of medium and high flow.

These systems are capable of delivering continuously softened water without the disruptions arising from the regeneration of the resins.

They are made of:

- epoxy painted steel tank with a special anti-corrosion interior food grade certified;
  - PE brine tank w/brine well and brine valve (up to models with 1500 l of resins) (1);
  - ion exchange resins, regenerable with sodium chloride;
  - battery valve set composed by 5 diaphragm valves in cast iron/steel, for models up to DN100 size;
  - battery valve set composed by 5 pneumatic actuated butterfly valves, for models starting from DN100 size (2).
  - AQUASTAR LOGO TD, electronic controller with LCD display and Siemens logical unit to automatically control softener regeneration;
  - battery set of solenoid 3/5 way pilot valves to operate the control of diaphragm and butterfly valves.
  - distribution system from ABS and polypropylene and arm collector system;
- Volumetric regeneration with softened water supplied during regeneration

It is also possible to acquire an auxiliary contact when the system is in regeneration (e.g. to start pumps, close valves, and to turn off downstream installations etc.). The new electronic AQUASTAR programmer is designed to make the planning of regeneration as easy as possible.

The 4 function keys allow you to easily start immediate regeneration (or delay it to 2 A.M.), or to advance cycles when you start-up the plant.

The Siemens PLC has the capacity to calculate precisely the time of regeneration of the resins based on:

- desired regenerant amount (g of NaCl per resin/litre);
- ejector suction flow rate;
- quantity of resins in the softener.

Thus it is no longer necessary to carry out laborious calculations. The complete and efficient regeneration of resins is guaranteed, with the minimum use of water and as low consumption of salt as possible, eliminating any waste.

- 1) The larger models are supplied without a PE brine tank. In this case, it is necessary to build a concrete brine tank of the appropriate size. As an option you can buy the brine tank kit.
- 2) The models with battery butterfly valve set can be actuated exclusively by lubricated, dried air. If this is not present it is necessary to purchase a compressor of at least 60 l with 6 bar of pump head.



Optional (see pages 122)

- resin disinfection system IDROCLOR 2;
  - brine tank kit. It consists of a pump, control panel, solenoid valves and level switch (It is necessary for large systems where there is no supply the brine tank);
- Tested and certified and for drinking water.

### DATI TECNICI

Model	Resins (l)	Valve	I/O connections	Flow rate		Peak flow*** (m <sup>3</sup> /h)	Capacity**** (m <sup>3</sup> x1°F)	Salt per regen. (kg)	Brine tank (l)		
				potable use* (m <sup>3</sup> /h)	industrial use** (m <sup>3</sup> /h)						
DXP300	300x2	diaphragm	1"1/2	12,00	<1,2	9,0	<1,0	16,8	1800x2	42,0	300
DXP350	350x2	diaphragm	1"1/2	12,25	<1,2	10,5	<1,0	17,2	2100x2	49,0	500
DXP350M	350x2	diaphragm	2"	14,00	<1,1	10,5	<0,8	19,6	2100x2	49,0	500
DXP500	500x2	diaphragm	1"1/2	17,50	<1,3	15,0	<1,0	24,5	3000x2	70,0	500
DXP500M	500x2	diaphragm	2"	20,00	<1,1	15,0	<0,8	28,0	3000x2	70,0	500
DXP750	750x2	diaphragm	2"	26,25	<1,1	22,5	<0,9	36,8	4500x2	105,0	800
DXP750M	750x2	diaphragm	DN80	30,00	<1,0	22,5	<0,9	42,0	4500x2	105,0	800
DXP1000	1000x2	diaphragm	2"	35,00	<1,3	30,0	<1,0	49,0	6000x2	140,0	1000
DXP1000M	1000x2	diaphragm	DN80	40,00	<1,0	30,0	<0,8	56,0	6000x2	140,0	1000
DXP1300	1300x2	diaphragm	DN80	52,00	<1,0	39,0	<0,8	72,8	7800x2	182,0	1500
DXP1500	1500x2	diaphragm	DN100	60,00	<1,0	45,0	<0,8	84,0	9000x2	210,0	1500
DXP2000	2000x2	diaphragm	DN100	80,00	<1,0	60,0	<0,8	112,0	12000x2	280,0	N.F.
DXP1500F	1500x2	butterfly	DN100	60,00	<1,1	45,0	<0,9	84,0	9000x2	210,0	1500
DXP2000F	2000x2	butterfly	DN100	80,00	<1,2	60,0	<0,9	112,0	12000x2	280,0	N.F.
DXP2500F	2500x2	butterfly	DN125	100,00	<1,3	75,0	<1,0	140,0	15000x2	350,0	N.F.
DXP3000F	3000x2	butterfly	DN125	120,00	<1,1	90,0	<0,9	168,0	18000x2	420,0	N.F.

Note

Battery set of solenoid 3 way pilot valves to operate the control of diaphragm can only be used with either air or clean water. Battery set of solenoid 5 pilot valves to operate the control of butterfly valves can only be used with air.

Working pressure: 1.5 to 5 bar. Electrical feed 230 V-50Hz. Operating temperature: 2-40 °C.

\*There can be leakage of hardness <4%.

\*\* There can be leakage of hardness < 2%.

\*\*\* There can be moderate leakage of hardness and pressure loss >2bar.

\*\*\*\* Capacity refers to regeneration with 140g of NaCl per litre of resin.

The data refers to drinking water with hardness 35%, temperature 20°C, total salinity 600ppm.

The equipment is supplied with filter material apart unless otherwise indicated in writing while ordering.

### DIMENSIONS

Model	Resin columns			total width of plant (mm)	Brine tank		Weight (kg)
	Ø (mm)	depth w/battery set (mm)	h (mm)		Ø (mm)	h (mm)	
DXP300	600	900	2100	1800	700	1130	420
DXP350-350M	650	950-980	2110	1900	900	1160	470-490
DXP500-500M	800	1100-1130	2200	2200	900	1160	620-640
DXP750-750M	950	1270-1330	2235	2700	1080	1080	920-1000
DXP1000-1000M	1100	1420-1480	2315	3000	1240	1080	1170-1250
DXP1300	1300	1680	2410	3600	1220	1340	1650
DXP1500	1400	1850	2460	3800	1220	1340	1950
DXP2000	1600	2050	2790	4400	-	-	2800
DXP2500	1800	2320	2930	5000	-	-	3300
DXP3000	2000	2550	3050	5600	-	-	3800

Dimensions and weight may vary without advance notice. In the case of binding dimensions contact the technical office.

Code Euro

DXP300	
DXP350	
DXP350M	
DXP500	
DXP500M	
DXP750	
DXP750M	
DXP1000	
DXP1000M	
DXP1300	
DXP1500	
DXP2000	
DXP1500F	
DXP2000F	
DXP2500F	
DXP3000F	

## VALUMAX SOFTENERS

Idroservice has elaborated 4 softening models for residential applications that are characterised from the high quality/price ratio, ensuring in the mean time economy and practicality management for the user thanks to the multi-functional electronic valves with volumetric regeneration and by-pass.

PRODUCT FULLY ASSEMBLED IN ITALY

For prices please contact Idroservice commercial office.

### VALUMAX RX

Automatic softening cabinet or double body compound of:

- multi-functional electronic valve, volumetric or timer, with regeneration counterflow, complete of by-pass in Noryl;
- 20 l of ion exchange resins for food grade certified; ;
- fibreglass pressure tank food grade certified;
- brine tank or completed cabinet with well salt

Optional accessories (see page 122/123/124);

- disinfection of the resins system IDROCLOR 1;
- flexible kit IN/OUT from 1", 35 cm length



CAB20 RX



R20 RX



By Pass detail



Display detail

### TECHNICAL DATA

Model	Resins (l)	Valves	I/O connections	By Pass	Work flow rate		Peak flow rate (m³/h)	Capacity (m³×1°F)	Salt per regen. (kg)	Brine tank (l)		
					drinkable use (m³/h)	Δp (bar)						
VALUMAX-CAB20-RX	20	RX	1"	NORYL	1,3	<0,5	0,7	<0,5	2,4	120	3,0	50
VALUMAX-R20-RX	20	RX	1"	NORYL	1,3	<0,5	0,7	<0,5	2,4	120	3,0	100

### DIMENSIONS

Model	Cabinet dimensions			Weight (Kg)
	Ø (mm)	h (mm)	d (mm)	
VALUMAX-CAB20-RX	350	1130	605	34

### DIMENSIONI

Model	Resins column		Weight (Kg)
	Ø (mm)	h (mm)	
VALUMAX-R20-RX	210	1050	30

### VALUMAX FL

Automatic cabinet softeners or double body compound with:

- multi-functional electronic valve Fleck 5600 SXT, volumetric or timer with regeneration in cocurrent flow, complete of stainless steel by-pass;
- 20 l of ion exchange resins for food grade certified;
- fibreglass tank food grade certified;
- brine tank or cabinet including salt dissolver well.

Optional accessories (see page 122/123/124)

- disinfection of the resins system IDROCLOR 1;
- auxiliary microswitch;
- flexible kit IN/OUT from 1", 35 cm length.



CAB20 FL



R20 FL



By Pass detail



Display detail

### TECHNICAL DATA

Model	Resins (l)	Valves	I/O connections	By Pass	Work flow rate		Peak flow rate (m³/h)	Capacity (m³×1°F)	Salt per regen. (kg)	Brine tank (l)		
					drinkable use (m³/h)	Δp (bar)						
VALUMAX-CAB20-FL	20	5600 SXT	1"	INOX	1,3	<0,5	0,8	<0,5	2,4	120	3,0	50
VALUMAX-R20-FL	20	5600 SXT	1"	INOX	1,3	<0,5	0,8	<0,5	2,4	120	3,0	100

### DIMENSIONS

Model	Cabinet dimensions			Weight (Kg)
	Ø (mm)	h (mm)	d (mm)	
VALUMAX-CAB20-FL	350	1130	605	34

### DIMENSIONS

Model	Resins column		Brine tank		Weight (Kg)
	Ø (mm)	h (mm)	Ø (mm)	h (mm)	
VALUMAX-R20-FL	210	1120	480	680	30

## Accessories for softeners and filters

### RESIN DISINFECTION SYSTEMS

IDROCLOR 1 is an automatic device for disinfecting resins by means of an electrolysis cell. It is suitable for softeners with a capacity of up to 300 litres of resins. The kit includes an electronic control unit that can be set depending on the quantity of resins, graphite electrodes coated in titanium, the TEE connection and fittings for the IN-OUT brine suction pipe 3/8" or 1/2".

IDROCLOR 2 is an automatic device for disinfecting resins by dosing a sanitizing solution. It is suitable for softeners with a capacity of up to 5000 litres of resins. The system consists of a metering pump and a tank for chemical additives. The dosage of the disinfectant solution will automatically occur during the regenerant refill cycle into the brine tank (not supplied).

Code	Description	Euro
IDROCLOR-1-3/8	Device for disinfecting resins for pipe 3/8"	
IDROCLOR-1-1/2	Device for disinfecting resins for pipe 1/2"	
IDROCELL-1	Electrolysis cell for IDROCLOR 1	
IDRO-AL	Electronic control unit for IDROCLOR 1	
RPVC-T3-8	PVC T connection 3/8"	
IDROCLOR-2	Device for disinfecting resins for large systems (starting from 300 l)	



IDROCELL-1



IDROCLOR-1

IDROCLOR-2

### MICROSWITCH KIT

Microswitch kits, complete with 4 m cable installed in the valve. Allows for a volt-free contact when the system is under regeneration/backwash.



VF-KITMS5600

VA-KITMS-LOGIX

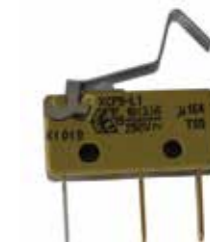
VF-KITMS7700



VF-KITMS2850



VF-KITMS29-91-95



VS-KITMS132-230-250

Code	Description	Euro
VF-KITMS5600SXT	MICROSWITCH KIT FOR FLECK 5600SXT	
VA-KITMS-LOGIX	MICROSWITCH KIT FOR AUTOTROL LOGIX 255/263/268	
VF-KITMS5600	MICROSWITCH KIT FOR FLECK 5600	
VF-KITMS7700	MICROSWITCH KIT FOR FLECK 7700 SXT	
VF-KITMS2850	MICROSWITCH KIT FOR FLECK 2850 SXT	
VF-KITMS29-91-95	MICROSWITCH KIT FOR FLECK 2910, 9100, 9500 SXT	
VS-KITMS132-230-250	MICROSWITCH KIT FOR SIATA 132/230/250	

### KIT FOR MIXING AND BY-PASS

Kits for by-pass and mixing of the raw water with softened water. This allows you to mix the treated water to provide water having the desired hardness to the users. The by-pass allows you to quickly and easily remove the installation for maintenance.



VA-KITBP263-268

VF-KITBP5600

Code	Description	Euro
VA-KITMX255	IN/OUT BRASS KIT w/mixer screw for 255	
VA-KITBP255	KIT BY PASS AUTOTROL 255 w/connections 1" M	
VA-KITBP263-268	KIT BY PASS AUTOTROL 268/263 w/connections 1" M	
VF-KITBP5600-INOX	KIT BY PASS FLECK 5600 INOX w/connections 1" F	
VF-KITBP5600	KIT BY PASS FLECK 5600 ABS w/connections 1" M	
VF-KITBP7700	KIT BY PASS FLECK 7700 w/connections 1" 1/4 M	
VS-KITBP132	KIT BY PASS SIATA 132 ABS w/connections 1" 1/2 M	
VR-KITBP69	Kit By Pass for Runxin valves	



VA-KITMX255

VS-KITBP132

VF-KITBP5600-INOX

VF-KITBP7700

VR-KIT-BP69

VA-KITBP255



VI-KITBP2

### BY-PASS VALVE KIT

By-pass kit valve provided installed in softeners range RP, RPP and filters DP / DPP, KP / KPP, DFP and DFPP. It allows the supply of raw untreated water during regeneration of the softener and filter backwash. Order the kit corresponding to the size of the I/O connections of the equipment ordered.

Code	Description	Euro
VKITBP1-1/2	KIT BY PASS DIAPHRAGM VALVES 1" 1/2	
VKITBP2	KIT BY PASS DIAPHRAGM VALVES 2"	
VKITBPDN80	KIT BY PASS DIAPHRAGM VALVES DN80	
VKITBPDN100	KIT BY PASS DIAPHRAGM VALVES DN100	
VKITBPDN100F	KIT BY PASS BUTTERFLY VALVES DN100	
VKITBPDN125F	KIT BY PASS BUTTERFLY VALVES DN125	
VKITBPDN150F	KIT BY PASS BUTTERFLY VALVES DN150	

## Accessories for softeners and filters

### FLEXIBLE HOSES

Flexible hoses with F/M 1" connections, length 40 cm suitable for connecting residential softeners to the mains water supply. Order 2 pieces per softeners.

Code	Descriptions	Euro
V-KIT-FLEX	Flexible hose 1" , 40 cm length	



### DIFFERENTIAL PRESSURE GAUGE

Instrument for measuring the differential pressure upstream and downstream of a filtration plant. Ability to programme a set point of intervention to energise a digital output. Perfectly interfaced with the programmer AQUASTAR LOGO TD. 24V-AC power supply.

Code	Descriptions	Euro
DELTA-P	Differential pressure gauge	

### SALT

Pure food grade salt (NaCl) for water softeners regeneration. Full pallets of 1250 kg.

Code	Descriptions	Euro/Kg
SALE-M	Granular Salt for softeners (NaCl), 25 kg bags	
SALE-P	Salt for softeners (NaCl), 20 g tablets, 25 kg bags	



### MANUAL SOFTENERS

Manual water softeners are used for dishwashers, washing machines, espresso machines and small boilers. Frame in stainless steel AISI 304, taps 3/4", food grade ion exchange resins, cover with polygonal closure. Maximum operating temperature 40 ° C.



#### TECHNICAL DATA

Code	I/O connections	Flow rate (l/m)	Capacity (m <sup>3</sup> x 1 <sup>st</sup> )	ΔP (bar)	Salt cons. per regen (kg)	Dimensions Ø x h (mm)
L8 INOX	3/4"	6	30-36	0,8	1	180x400
L12 INOX	3/4"	9	50-60	0,8	1,5	180x500
L16 INOX	3/4"	11	65-78	0,8	2	180x600
L20 INOX	3/4"	13	80-100	0,8	2,5	180x900

Code	Euro	Code	Descriptions	Euro
L8 INOX		DV3	Plastic base	
L12 INOX		DV4	tap	
L16 INOX		DV10	tap	
L20 INOX		DVF10	IN filter	
		DVF20	OUT filter	