

# IONSOFT™ Mini (Berkesoft)

Compact range of softeners

The IONSOFT Mini is a compact softener range based on ion Exchange resins technology that can be used for domestic or industrial applications. It is designed with upflow counter-current regeneration to optimize OPEX.

3 sizes.

Up to 4 units in parallel.

Production flow rate from 0.3 m<sup>3</sup>/h to 18.7 m<sup>3</sup>/h (up to 31.2 m<sup>3</sup>/h with blending 40% of raw water with 60% of softened water).



## Features & Benefits

- User-friendly controller with LCD display integrated in the Control valve.
- Regeneration can be triggered manually or automatically.
- Automatic regeneration is based on Volume and time.
- Optimized usage of regeneration salt: upflow counter-current regeneration and proportional regeneration when resins are only partially exhausted.
- Compact designs with integrated brine tanks: space saving and easy installation.
- Up to 4 units running in parallel: continuous production.
- Integrated blending device: can be used when target is not to remove completely hardness.
- Materials in contact with water suitable for drinking water (pending approval with W270 German legislation).

## Applications

- Drinking water softening
- Glass washing
- Cleaning and rinse water
- Laundry
- Reverse Osmosis feed water pre-treatment (eg. before Sirion)
- Laboratory
- Cooling towers

## Related Services

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.

## Hydrex™ chemicals

Hydrex™ 7110 water treatment chemicals from Veolia Water Technologies and salt pellets should be used for optimized operation.

## System operating parameters and dimensions

Model single vessel	Unit	Mini 5	Mini 15	Mini 35
Min production flowrate	m <sup>3</sup> /h	0.3	0.3	0.8
Max production flowrate	m <sup>3</sup> /h	0.7	2.0	4.7
Max production flowrate with blending*	m <sup>3</sup> /h	1.2	3.3	7.8
Length	m	0.61	0.74	0.74
Width	m	0.34	0.37	0.37
Height	m	0.73	1.09	1.09
Connections	-	R1" BSPT	R1" BSPT	R1" BSPT
Model 2 vessels in parallel	Unit		Mini 2-15	Mini 2-35
Min production flowrate	m <sup>3</sup> /h		0.3	0.8
Max production flowrate	m <sup>3</sup> /h		4.0	9.4
Max production flowrate with blending*	m <sup>3</sup> /h		6.6	15.6
Length	m		0.85	0.85
Width	m		1.06	1.1
Height	m		1.09	1.09
Connections	-		Rp1 ¼" BSPT	Rp2" BSPT
Model 3 vessels in parallel	Unit		Mini 3-15	Mini 3-35
Min production flowrate	m <sup>3</sup> /h		0.3	0.8
Max production flowrate	m <sup>3</sup> /h		5.9	14.0
Max production flowrate with blending*	m <sup>3</sup> /h		9.9	23.4
Length	m		0.85	0.85
Width	m		1.52	1.55
Height	m		1.09	1.09
Connections	-		Rp1 ½" BSPT	Rp2" BSPT
Model 4 vessels in parallel	Unit		Mini 4-15	Mini 4-35
Min production flowrate	m <sup>3</sup> /h		0.3	0.8
Max production flowrate	m <sup>3</sup> /h		7.9	18.7
Max production flowrate with blending*	m <sup>3</sup> /h		13.2	31.2
Length	m		0.85	0.85
Width	m		2.00	1.95
Height	m		1.09	1.09
Connections	-		Rp2" BSPT	Flange DN65
Performance (per vessel)				
Capacity	kgCaCO <sub>3</sub>	0.23	0.71	1.75
Water consumption per regeneration	L	49	86	172
Salt consumption per regeneration	kg	0.6	1.8	4.2

\* Considering blending of 60% of inlet flow that is softened with 40% of inlet flow that is not softened.

## Feed Water requirements

Parameter	Unit	Value
Min water temperature	°C	5
Max water temperature	°C	25
Min inlet pressure	bar	2.5
Max inlet pressure	bar	6

Feed water must have a quality equivalent to potable water, colorless, free from organic contamination, chlorine, iron, manganese and suspended solids. Raw water shall not contain hardness stabilizing agents and must not be over-saturated with gas.

## Environmental conditions

Parameter	Unit	Value
Min ambient temperature	°C	5
Max ambient temperature	°C	35

Indoor installation in a non-corrosive atmosphere.

## Power requirements

Voltage	AC 100-240V
Frequency	50/60 Hz
Phase	1

For higher flow rates or other processes, consult your local Veolia Water Technologies company, details below.

Visit our website: [www.veoliawatertechnologies.com](http://www.veoliawatertechnologies.com)

In keeping with the progressive nature of the company, we reserve the right to amend details without notice.

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