

Ionsoft® Mini



Compact range of softeners

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

- Production flow rate from 0.3 m³/h to 18.7 m³/h (up to 31.2 m³/h with blending 40% of raw water with 60% of softened water).
- Up to 4 units in parallel
- 3 sizes



Flow rates
from 0.3 to
18.7 m³/h



✓ 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).

HYDREX® CHEMICALS

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

💧 APPLICATIONS

- Glass washing
- Cleaning and rinse water
- RO feed water pre-treatment (eg. before Sirion)
- Cooling towers
- Suitable for laundries and labs

ASSOCIATED SERVICES

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





System Operating Parameters

Model	Unit	5	15	35	2-15	2-35
Min Feed Flowrate ⁽¹⁾	m ³ /h	0.3	0.3	0.8	0.3	0.8
Max Feed Flowrate ⁽¹⁾	m ³ /h	0.7	2.1	4.7	2.1	4.7
Nominal Capacity	kg CaCO ₃	0.23	0.71	1.75	0.71	1.75
Output per Regeneration ⁽¹⁾	m ³	2.3	7.1	17.5	7.1	17.5
Salt Usage per Regeneration	kg	0.6	1.8	4.2	1.8	4.2

Model	Unit	3-15	3-35	4-15	4-35
Min Feed Flowrate ⁽¹⁾	m ³ /h	0.3	0.8	0.3	0.8
Max Feed Flowrate ⁽¹⁾	m ³ /h	2.1	4.7	2.1	4.7
Nominal Capacity	kg CaCO ₃	0.71	1.75	0.71	1.75
Output per Regeneration ⁽¹⁾	m ³	7.1	17.5	7.1	17.5
Salt Usage per Regeneration	kg	1.8	4.2	1.8	4.2

⁽¹⁾ Per vessel, considering the standard hardness of 100 mg/l as CaCO₃

System Dimensions

Model	Unit	5	15	35	2-15	2-35
Total Installed Length	m	0.61	0.74	0.74	0.85	0.85
Total Installed Width	m	0.34	0.37	0.37	1.06	1.10
Total Installed Height	m	0.73	1.09	1.09	1.09	1.09

Model	Unit	3-15	3-35	4-15	4-35
Total Installed Length	m	0.85	0.85	0.85	0.85
Total Installed Width	m	1.52	1.55	2.00	1.95
Total Installed Height	m	1.09	1.09	1.09	1.09

Pipes Connections

Model	Unit	5	15	35	2-15	2-35
Feed	DN	R1" BSPT	R1" BSPT	R1" BSPT	Rp1 ¼" BSPT	Rp2" BSPT
Outlet	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Drain	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT

Model	Unit	3-15	3-35	4-15	4-35
Feed	DN	Rp1 ½" BSPT	Rp2" BSPT	Rp2" BSPT	Flange DN65
Outlet	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Drain	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT





Feed water Requirements

Parameter	Unit	Value
Minimum water temperature	°C	5
Maximum water temperature	°C	25
Minimum supply pressure	barg	3
Maximum supply pressure	barg	6
Max inlet Total Chlorine	mg/l	0.10
Max inlet Iron Fe ³⁺	mg/l	0.05
Max inlet Manganese Mn ²⁺	mg/l	0.05

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
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	35

Indoor installation in a non-corrosive atmosphere.

Power Requirements

Voltage	AC 100-240V
Frequency	50/60 Hz
Phases	50/60 Hz

Materials of Construction

Pressure Vessels	Fiberglass
Pipework	Noryl

Typical Treated Water Quality

Parameter	Unit	Value
Treated Water Hardness	mg/l as CaCO ₃	< 1