

ECOMIX® EFFICIENCY AND LIMITATIONS



ECOMIX® P	ECOMIX® A	ECOMIX® C
For well or tap water with low organic matter	For well or tap water with moderate organic matter	For well or tap water with high organic matter
Requires stable quality of water	Handles seasonal variations in water composition	Handles seasonal variations in water composition even with significant changes in raw water quality

Raw water quality requirements and efficiency of purification			
Hardness, ppm CaCO ₃	750	750	750
Iron, mg/L	15	15	15
Manganese, mg/L	3	3	3
Chemical Oxygen Demand, mg/L O ₂	3	20 (Reduces by 50%)	20 (Reduces by 80%)
Ammonium, mg/L	4	4	4
Service life, years	3	5	5

ECOMIX® TECHNICAL SPECIFICATIONS

When designing ECOMIX® units, refer to the following figures:

Parameter	Value
Service flow rate, m/h	20–25
Backwash flow rate, m/h	10–15 !
Brine (slow rinse) flow rate, m/h	3–5
Minimum bed depth, mm	500
Recommended bed depth, mm	800
Freeboard, %	40 or more !
Salt consumption, g/L	100*
Brine concentration, %	8–10
Water consumption per regeneration, L/L	under 10

* If using potassium chloride increase salt dosage to 150 g/L.

! — if the backwash rate is not followed, the iron removal efficiency will be reduced

! — if the volume of ECOMIX® in the vessel is more than 60%, backwash may not be sufficiently effective

FILTER MEDIA ECOMIX® C

ECOMIX® C is a blend of ion exchange and sorption materials. It is intended for water softening, reduction of iron, manganese, ammonium and natural organic matter in domestic, commercial and industrial applications.

Product	Physical form
ECOMIX® C	Blend of light brown, dark brown, and gray beads

*The components are self-classified into layers inside the filter during the first regeneration.

Product Specification

Dynamic exchange capacity	g/L CaCO ₃	30
Grain size distribution:		
Bead size	mm	0,3 – 4,0
Volume ratio of fractions: 0,3 – 1,2 mm 2,0 – 4,0 mm	%	80 – 90 10 – 20

Typical Physical and Chemical Properties

Bulk density	kg/L	0,8
Moisture	%	55 – 80

Recommended

Operating Conditions

- Operating temperature 0 – 40 °C
- pH range 5 – 10
- Minimum bed depth 500 mm
- Recommended bed depth 800 mm
- Freeboard > 40 % of bed depth
- Total water usage per regeneration 10 L/L of resin
- Salt consumption 100 – 150 g/L of resin
- Brine solution concentration 8 – 10 % NaCl

Packaging: 12; 25 L bags

FILTER MEDIA ECOMIX® A

ECOMIX® A is a blend of five ion exchange and sorption materials. It is intended for water softening, reduction of iron, manganese, ammonium and natural organic matter in domestic, commercial and industrial applications.

Product	Physical form
ECOMIX® A	Blend of light brown, dark brown, and gray beads*

*The components are self-classified into layers inside the filter during the first regeneration.

Product Specification

Dynamic exchange capacity	g/L CaCO ₃	35
Grain size distribution:		
Bead size	mm	0,3 – 4,0
Volume ratio of fractions:	%	
0,3 – 1,2 mm		80 – 90
2,0 – 4,0 mm		10 – 20

Typical Physical and Chemical Properties

Bulk density	kg/L	0,8
Moisture	%	55 – 80

Recommended

Operating Conditions

- Operating temperature 0 – 40 °C
- pH range 5 – 10
- Minimum bed depth 500 mm
- Recommended bed depth 800 mm
- Freeboard > 40 % of bed depth
- Total water usage per regeneration < 10 bed volumes
- Salt consumption > 100 – 150 g/L resin
- Brine solution concentration > 8 – 10 % NaCl

Packaging: 12; 25 L bags

ECOMIX® P FILTER MEDIA

ECOMIX® P is a blend of ion exchange and sorption materials. ECOMIX® P is a highly effective filter media for problem water. Intended for purification of well water, its softening, reduction of iron and manganese.

Typical Physical and Chemical Properties

Physical form		blend of light brown, dark brown, and gray beads
Dynamic exchange capacity	eq/L g/L as CaCO ₃	0,8 40.0
Bead size	mm	0,3 – 4,0
Bulk density	kg/L	0,8
Moisture	%	55 – 80

Recommended Operating Conditions

- Operating temperature 5 – 40 °C
- pH range 5 – 9
- Minimum bed depth 500 mm
- Recommended bed depth 800 mm
- Freeboard 40 % or more
- Salt consumption 100 g/L media

Packaging: 12; 25 L bags

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