ECOMIX

- **ECOMIX is a granular filtering media, suitable for remove natural organic matter, hardness, iron, manganese and ammonia independently of raw water pH, anions content and chlorine presence;**
- **ECOMIX is a homogeneous mixture of five high quality ion-exchange and adsorption materials of natural and synthetic origin;**
- **you can use ECOMIX as a ion-exchange resin and regenerate it with sodium chloride (NaCl);**
- **wide range of raw water as indicated in the "Limit Concentration Table" below;**
- **ECOMIX can treat water with high concentration of Fe and Mn, and with max TDS = 4000 mg/l;**
- **to calculate filter capacity, one should only consider water hardness and ion-exchange capacity (don't consider Fe and Mn data);**
- **shipping weight 0,75 kg / liter;**
- **available in 12,0 liters bags.**

REF.	TYPE	ION EXCHANGE CAPACITY (eq/l)	ION EXCHANGE CAPACITY (g $CaCO_3$/l)	DOSE OF REGENERANT (g NaCl 100% per liter)
RA080	Ecomix - A	0,75	37,5	100
RA081	Ecomix - C	0,65	32,5	100

- **ECOMIX A is preferred when the contaminants to be removed are mainly hardness and iron;**
- **ECOMIX C is preferred when the contaminants to be removed are mainly organic matter.**

WARNING: **if you use only a part of the product contained in a bag, you have make sure that all the contents are mixed, in order to homogenize the product before spilling. ECOMIX is a mixture of five materials with different specific weight and different particle size, which if not well mixed tends to stratify.**

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LIMIT CONCENTRATION TABLES:

RA080	Hardness (ppm $CaCO_3$)	Fe (mg/l) (ppm)	Mn (mg/l) (ppm)	COD (ppm $KMnO_4$)	Ammonia (mg/l) (ppm)	TDS (ppm)
Raw water concentration limits	< 750	< 15	< 3	< 16	< 4	< 4000
Quality of purified water	≤ 20	< 0,3	< 0,1	< 8	< 0,5	No changes

RA081	Hardness (ppm $CaCO_3$)	Fe (mg/l) (ppm)	Mn (mg/l) (ppm)	COD (ppm $KMnO_4$)	Ammonia (mg/l) (ppm)	TDS (ppm)
Raw water concentration limits	< 750	< 10	< 3	< 80	< 4	< 4000
Quality of purified water	≤ 20	< 0,3	< 0,1	< 8	< 0,5	No changes

OPERATING CONDITIONS:

OPERATING CONDITIONS		UNIT OF MEASUREMENT
Maximum operating temperature	40	°C
pH range	5 ÷ 10	
Minimum bed depth	500	mm
Optimum bed depth	800	mm
Service flow rate	20 ÷ 25	$m^3/h\ m^2$
Backwash flow rate (15÷20 min)	13 ÷ 15	$m^3/h\ m^2$
Regeneration flow rate (45÷65 min)	3 ÷ 5	$m^3/h\ m^2$
Rinse flow rate (15÷20 min)	20 ÷ 25	$m^3/h\ m^2$
Free bed volume	> 40	%
Regenerant solution (NaCl)	8 ÷ 10	%
Dose of regenerant	100	g NaCl 100% per liter

SUGGESTED APPLICATIONS:

VESSEL	VOLUME (liters)	FLOW (l/h)
8 x 44	24	600 ÷ 800
10 x 44	36	800 ÷ 1000
10 x 54	48	1000 ÷ 1250
12 x 52	60	1400 ÷ 1750
13 x 54	72	1600 ÷ 2000