

# SELECTIVE NITRATE REMOVING FILTER

series FNO3/D-08 - FNO3/D-210

efficiency 0,2 - 6,0 l/h

Ground waters, which are situated near leaking cesspools or agriculture areas, may be polluted with nitrates. These ions have negative influence on human organism, they may be the reason for ischemic heart disease and tumors.

Nitrates are most often removed from water with the use of selective ion exchange resins anion exchangers. These resins are regenerated with salt (NaCl). The systems of this type should work constantly and be fully automatic.

Another way of nitrate (as well as other impurities) removing is partial water demineralization with reverse osmosis systems.

Advantages of our nitrate removing systems:

- \* Corrosion-proof housing
- \* Media lifetime till 20 years
- \* High durability tanks
- \* Fully automatic (time or volume control)
- \* Low operating outlays
- \* Water bypass in the control valve, making water flow during regeneration possible
- \* Possibility to control the quantity of the salt, used for regeneration, ipso facto the quantity of water Between regenerations
- \* Short regeneration time



PROEKO WATER TREATMENT FOR HOME AND INDUSTRY  
95-050 Konstaktynow Łódzki, ul. Srebrzyńska 5/7  
tel: 42 211 20 64, 42 211 20 19 fax: 42 09 33 03  
e-mail: [proeko@proekojp.pl](mailto:proeko@proekojp.pl)

[www.proekojp.pl](http://www.proekojp.pl)

**pro  
eko**  
WATER TREATMENT

Model		PRO10-8	PRO10-15	PRO10-25	PRO10-35	PRO10-45	PRO10-65	PRO10-75	PRO10-100	PRO10-150	PRO10-180	PRO10-210	
Media	Cation exchange quantity [l]	8	15	25	35	45	65	75	100	150	180	210	
Media tank	Type [inch]	8 x 17	8 x 35	8 x 44	10 x 44	10 x 54	12 x 48	13 x 54	14 x 65	16 x 65	18 x 65	21 x 62	
Valve type		255											
Regenerant tank	Volume [l]	35	35	75	75	100	100	100	150	300	300	300	
	Salt quantity [l]	8	15	25	35	45	65	75	100	150	150	150	
Flow <sup>1</sup>	Minimal [l/h]	0,2	0,4	0,6	0,9	1,6	1,8	1,9	2,5	3,0	3,6	4,2	
	Horizontal [l/h]	0,5	0,7	1,0	1,3	1,7	2,0	2,2	2,8	3,5	4,1	5,0	
	Maximal [l/h]	1,2	1,5	1,8	2,0	2,3	2,7	3,0	3,5	4,0	4,6	6,0	
Ion exchange capacity	Max [mval]	16	30	50	70	90	120	150	200	260	360	420	
	Min [mval]	9,6	18	30	42	54	75	90	120	156	216	252	
Salt consumption <sup>2</sup>	Max [kg]	2,0	3,7	6,2	8,7	11,2	15,4	18,7	25	32,5	45	52	
	Min [kg]	0,6	1,2	2,0	2,8	3,6	4,8	6,0	8	10,4	14,4	16,8	
Water quantity in cycle <sup>3</sup>	Max [l]	5,3	10	16,6	23,3	30	42	50	66,6	87	120	140	
	Min [l]	3,2	6	10	14	18	26	30	40	52	72	84	
Backwash capacity [l/min]		5,32	6,08	6,08	9,12	9,12	12,16	15,2	19	22,8	32,3	32,3	
Recommended backwash time [min.]		10											
Pressure drop <sup>4</sup> [bar]		0,2						0,3					
Working pressure [bar]		2 - 8											
Feed water temperature [°C]		1 - 38											
Power supply [V]		12											
Water connection [inch]		1											
Filter dimensions	A [m] - height	1,05	1,05	1,30	1,30	1,55	1,4	1,55	1,83	1,95	1,95	2,00	
	B [m] - width	0,40	0,50	0,50	0,70	0,70	0,8	0,90	1,00	1,10	1,20	1,40	
Tank dimensions	C [m] - height	0,35	0,35	0,30	0,30	0,60	0,60	0,60	0,60	1,06	1,06	1,06	
	D [m] - width	0,30	0,30	0,30	0,30	0,46	0,46	0,46	0,46	0,62	0,62	0,62	

**Unit calculator:**

- 3,8 liter/min = 1 GPM
- 1 inch = 2,54 cm
- 1 bar = 1 atm = 15 PSI
- 1 mval/liter = 5 °F = 2,8 °N = 50 mg CaCO<sub>3</sub>/dm<sup>3</sup>

**Explanations:**

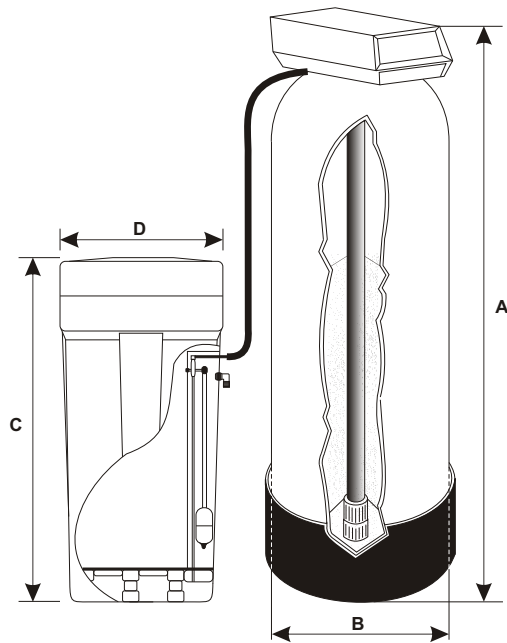
- <sup>1</sup> for household purposes
- <sup>2</sup> tablet salt
- <sup>3</sup> for nitrate contents of 150 mg/l. and sulfate contents of 20 mg/l (please contact Proeko in case of other values).
- <sup>4</sup> depending on water quality and flow

**The components are TUV and PZH certified, conform to the EU directives**



**We also offer:**

- Softeners and Iron Removers
- Special filters
- UV lamps
- Reverse osmosis
- Chemicals dosing systems
- Demineralizers
- Galvanic waters treatment



**\*Due to the fast technology development we reserve the right to change technical data without prior notice**