

SINGLE IRON REMOVERS

series IR-130 - IR-1000

with efficiency do 2,0 - 20,0 m³/h

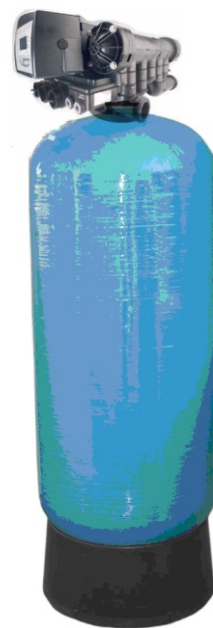
Ground waters often contain much manganese and iron. High iron and manganese contents in the water cause its turbidity and an increase in its color, the sanitary facilities get rusty stains. The removal of these substances consists in changing their compounds into easily dissolving forms, which are afterwards stopped by appropriate filtration media. In order to choose the media and the whole system correctly, physico-chemical analysis must be performed, which will show the form of iron and manganese in the water as well as dissolved oxygen, carbon dioxide and organic substances contents.

Iron and manganese removing media:

- BIRM – granular catalytic media for removing iron and manganese from water. The stopped substances are removed from the media during backwash. No chemical substances are used.
- GREENSAND – oxidizing and filtering media, made of natural raw material – glaukonit. It is regenerated with the use of KMnO₄. Depending on iron and manganese contents, the media can be regenerated periodically or constantly. Delay or lack of regeneration may damage the media.
- MTM – Used for removing iron, manganese and hydrogen sulfide from the water. It is regenerated with the use of KMnO₄. Depending on iron and manganese contents, the media can be regenerated periodically or constantly. Delay or lack of regeneration may damage the media.

Our iron removers' characteristics:

- Fully automatic
- Highly effective media with catalytic properties of oxidizing iron and manganese contents
- Long lifetime of the media
- Injector or compressor aeration
- High reliability and efficiency (warranty up to 3 years)
- Low operating outlays
- High durability tanks
- Best quality for the lowest price



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

www.proekojp.pl



Model		IR-130	IR-190	IR-220	IR-320	IR-510	IR-720	IR-1000	
Media tank	Media quantity [liter]	85	127	154	224	350	504	710	
	Type [inch]	16 x 65	18 x 65	21 x 62	24 x 72	30 x 72	36 x 72	42 x 72	
Valve type		Magnum							
Regenerant tank (option)	Volume [liter]	75				100			
	Regenerant quantity [liter]	25	35	40	50	60	70	80	
Flow ^I	Minimal [m ³ /h]	2,0	2,7	4,0	5,1	8,0	12,0	16,0	
	Nominal [m ³ /h]	2,5	3,2	4,3	5,7	8,8	12,7	16,9	
	Maximal [m ³ /h]	3,0	3,8	5,1	7,5	11,2	15,8	21,4	
Iron removing capacity	Max [g]	190	280	320	450	760	1100	1420	
	Min [g]	130	190	220	320	510	720	860	
Water quantity in cycle ^{II}	Max [m ³]	85	140	160	225	380	550	740	
	Min [m ³]	65	95	110	160	250	360	480	
Pressure drop ^{III} [bar]		0,2				0,3			
Working pressure [bar]		2 - 8							
Backwash speed [liter/min] (Greensand)		65-100	80-120	110-160	145-220	230-340	330-500	440-700	
Backwash speed [liter/min] (MTM)		45-65	55-80	75-110	100-140	150-220	220-320	330-460	
Backwash speed [liter/min] (Birm)		45-65	55-80	75-110	100-140	150-220	220-320	330-460	
Power supply [V]		12							
Water connection [cal]		11/2					2		
Filter dimensions	A - height [m]	2,05	2,05	2,10	2,10	2,17	2,17	2,17	
	B - width [m]	0,44	0,49	0,54	0,61	0,76	0,92	1,1	
Tank dimensions	C - height [m]	0,95				0,95			
	D - width [m]	0,35				0,40			

Unit calculator:

3,8 liter/min = 1 GPM

1 inch = 2,54 cm.

1 bar = 15 PSI

1 mval/liter = 5 °F = 2,8 °d = 50 mg CaCO₃/liter

Explanations:

¹ minimal flow recommended for use with boilers

² for iron contents 1,0 mg/liter

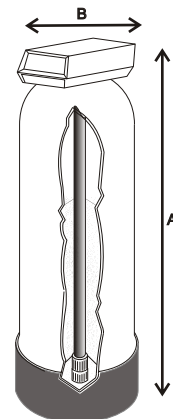
³ depending on water quality and flow

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