

# SINGLE IRON REMOVERS

series IR-20 - IR-110  
with efficiency 0,4 - 2,0 m<sup>3</sup>/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 KMnO<sub>4</sub>. 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 KMnO<sub>4</sub>. 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



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Model		IR-20	IR-30	IR-40	IR-60	IR-70	IR-110
Media tank	Media quantity [liter]	14	21	28,3	42	56,6	71
	Type [inch]	10 x 35	10 x 44	10 x 54	12 x 48	13 x 54	14 x 65
Valve type		268					
Regenerant tank (option)	Volume [liter]	40					
	Regenerant quantity [liter]	3	5	7	10	15	20
Flow <sup>1</sup>	Minimal [m <sup>3</sup> /h]	0,4	0,5	0,7	1,0	1,2	1,4
	Nominal [m <sup>3</sup> /h]	0,5	0,8	1,0	1,3	1,5	1,7
	Maximal [m <sup>3</sup> /h]	0,6	1,0	1,2	1,5	1,8	2,0
Iron removing capacity	Max [g]	30	45	60	90	105	160
	Min [g]	20	30	40	60	70	110
Water quantity in cycle <sup>2</sup>	Max [m <sup>3</sup> ]	15	22	30	45	52	80
	Min [m <sup>3</sup> ]	10	15	20	30	35	52
Pressure drop <sup>3</sup> [bar]		0,2			0,3		
Working pressure [bar]		2 - 8					
Backwash speed [liter/min] (Greensand)		25-40	25-40	25-40	36-55	45-65	50-75
Backwash speed [liter/min] (MTM)		17-35	17-35	17-35	24-35	30-43	33-50
Backwash speed [liter/min] (Birm)		17-35	17-35	17-35	24-35	30-43	33-50
Power supply [V]		12					
Water connection [cal]		1					
Filter dimensions	A - height [m]	1,30	1,40	1,60	1,45	1,55	1,90
	B - width [m]	0,27	0,27	0,27	0,30	0,30	0,37
Tank dimensions	C - height [m]	0,40	0,40	0,40	0,40	0,40	0,40
	D - width [m]	0,35	0,35	0,35	0,35	0,35	0,35

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 CaCO<sub>3</sub>/liter

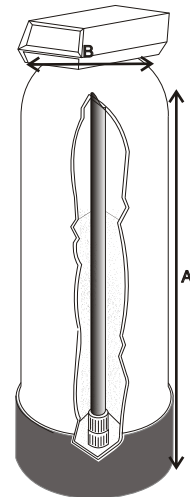
Explanations:  
<sup>1</sup> minimal flow recommended for use with boilers  
<sup>2</sup> for iron contents 1,0 mg/liter  
<sup>3</sup> depending on water quality and flow

**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