



WELLMIX

HARDNESS, IRON, MANGANESE,
ORGANIC MATTER & AMMONIUM (NH₄⁺) REMOVAL

WellMix is a qualitative resin mixture solution for the removal of iron, manganese, hardness, organic matter & ammonium (NH₄⁺) from well water. It is an all-in-one solution designed to deal with multiple problems of well water at the same time. Wellmix simplifies well water treatment and delivers reliable results.

WellMix X2 is the standard mixture for well water applications.
WellMix X5 is tailored to remove higher organic content & color from the well water.

OPERATING CONDITIONS

MAX INLET PARAMETERS		
	X2 Standard	X5 Organics
Hardness	42 °dH	42 °dH
Fe ²⁺	15 ppm	15 ppm
Mn ³⁺	3 ppm	3 ppm
COD	20 ppm O2/l	30 ppm O2/l
NH ₄ ⁺	4 ppm	4 ppm
pH	5-9	5-9
Temperature	4°C – 43°C	4°C – 43°C
Operating Pressure	2-6 bar	2-6 bar
Lifetime	3-5 years	3-5 years

GENERAL CHARACTERISTICS

Grain size distribution: 0,3 mm – 4,0 mm
Bulk Density: 0,8 – 0,9 kg/l
Moisture: 55-80%
Packaging: 12 Liter & 25 Liter Bags

CAPACITY

Brine mode Performance = 1
Brine mode ECO = 0,75

Capacity X2 (m³) = $\frac{V_{\text{wellmix}}(\text{l}) * 40 \text{ (g CaCO}_3\text{/l)}}{\text{incoming hardness (ppm)}}$ * Brine mode

Capacity X5 (m³) = $\frac{V_{\text{wellmix}}(\text{l}) * 36 \text{ (g CaCO}_3\text{/l)}}{\text{incoming hardness (ppm)}}$ * Brine mode

DESIGN CHARACTERISTICS

Service Velocity: 10-25 m/h
Backwash Velocity: 15 m/h
Backwash Duration: 15 min
Recommended Draw & Slow Rinse: 60 minutes
Brining: 100 – 160 g/L
Min. Bed Depth: 60 cm
Optimal Bed Depth: 80 cm
Freeboard: 40%

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WELLMIX

TECHNICAL DATA

WellMix X2 Standard						
	25	40	50	60	75	100
Tank	10x35	10x54	12x52	13x54	14x65	16x65
Volume WellMix (l)	25	37	50	62	75	100
Flowrate (m³/h)	1,3	1,3	1,8	2,2	2,5	3,3
Backwash flowrate (m³/h)	0,8	0,8	1,1	1,3	1,5	2
Eco-Mode - 100 g/l						
Capacity Kg CaCO3	0,8	1,2	1,5	1,8	2,3	3,0
Capacity m³x°DH	42	67	84	101	126	169
Capacity m³x°FH	75	120	150	180	225	300
Performance Mode - 160 g/l						
Capacity Kg CaCO3	1	1,5	2	2,5	3	4
Capacity m³x°DH	56	104	140	174	211	281
Capacity m³x°FH	100	150	200	250	300	400

A salt usage is 160 g/l is advised for Organic & Colour Removal.

WellMix X5 Organics						
	25	40	50	60	75	100
Tank	10x35	10x54	12x52	13x54	14x65	16x65
Volume WellMix (l)	25	37	50	62	75	100
Flowrate (m³/h)	1,3	1,3	1,8	2,2	2,5	3,3
Backwash flowrate (m³/h)	0,8	0,8	1,1	1,3	1,5	2
Eco-Mode - 100 g/l						
Capacity Kg CaCO3	0,6	1,0	1,3	1,5	1,9	2,6
Capacity m³x°DH	36	57	72	86	107	143
Capacity m³x°FH	64	102	128	153	191	255
Performance Mode - 160 g/l						
Capacity Kg CaCO3	0,9	1,3	1,7	2,1	2,6	3,4
Capacity m³x°DH	48	88	119	148	179	239
Capacity m³x°FH	85	128	170	213	255	340

A salt usage is 160 g/l is advised for Organic & Colour Removal.

INSTALLATION

All local norms and good plumbing practices must be respected during the installation of a WellMix system. A 20” Big Blue 5-50 micron sediment prefilter is recommended. Install an activated carbon post filter for odor & taste improvement. Avoid using any oxidation, aeration & chlorination practices before WellMix. Installation of the WellMix system is similar to a softener installation.

SYSTEM START-UP *

1. Load the WellMix media into the system.
2. Connect the WellMix system to the waterline. Remove all air from the system and rinse the WellMix media.
3. Ensure the correct programming of the system, load salt & water in the brine tank and perform a complete regeneration cycle.
4. Sample the water after the regeneration & verify the functionality of the WellMix system.

Consult the system manual for more info.

STORAGE & HANDLING

Store in well-ventilated storage facilities. Avoid direct sunlight, moisture. Recommended storage between 0°C & 30 °C. Protect against contamination. Avoid dehydration, once re-humidified the volume of resin may increase and cause packaging and equipment to break. Static electricity can build up on dry beads.

ATTENTION

Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions and can damage the resin or even create an explosive reaction. Avoid strong oxidizing agents.

