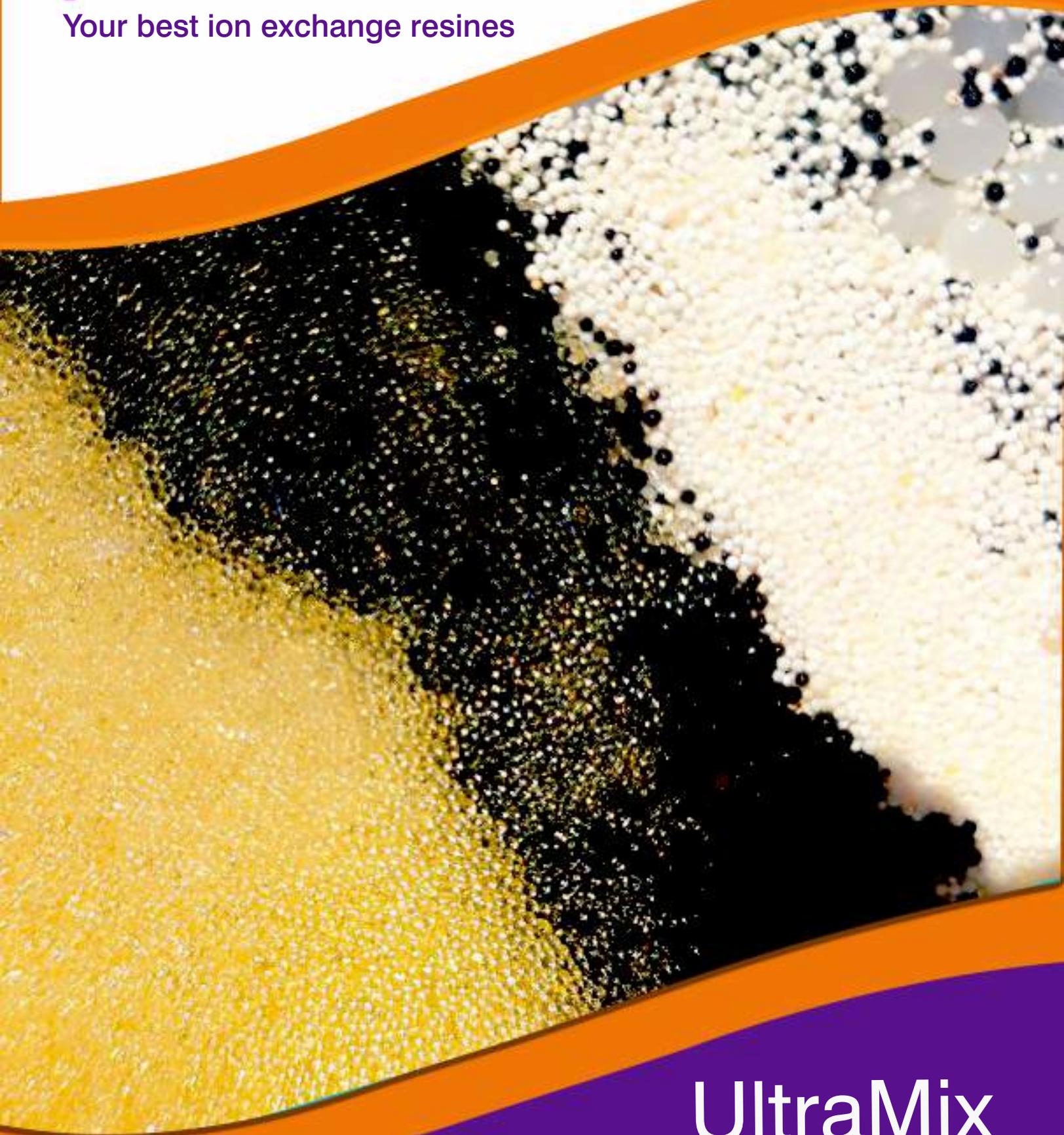


pur  **lex**

Your best ion exchange resines



UltraMix
UltraMix Plus

UltraMix and UltraMix Plus

removes from water: iron, hardness, manganese, organic compounds (oxidizability), ammonium



Cation Exchanger
removes hardness salts from water



Anion Exchanger
removes organic contaminants from water



Cation Exchanger
purifies water from manganese and iron



Gravel
forms a supporting layer for filter



LDPE Granules
prevents the removal of filter material

Parameter

Volume

Service flow rate, m/h	20–25
Backwash flow rate, m/h	10-15
Brine (slow rinse) flow rate, m/h	3-5
Minimum bed depth, mm	500
Recommended bed depth, mm	800
Freeboard, %	40 or more
Salt consumption, g/L	100*
Brine concentration, %	8–10
Water consumption per regeneration, L/ L	under 10

UltraMix UltraMix Plus

Multi-component filtering material of complex action for softening and removing major contaminants from tap and well water.



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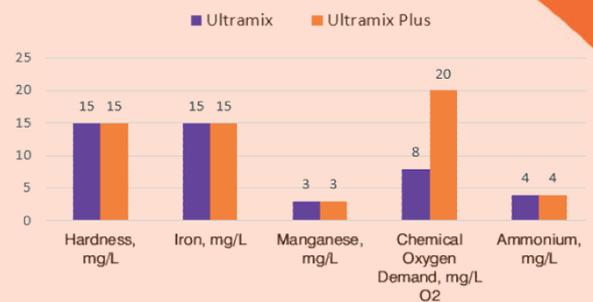
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UltraMix and UltraMix Plus

multi-component filtering material for softening and removing major contaminants from tap and well water

Comparison of materials efficiency for:

	Ultramix	Ultramix Plus
Hardness, mg/L	15,0	15,0
Iron, mg/L	15,0	15,0
Manganese, mg/L	3,0	3,0
Chemical Oxygen Demand, mgO ₂ /L	8,0 (Reduce 50 %)	20,0 (Reduce 80 %)
Ammonium, mg/L	4,0	4,0
Service life, years	5,0	5,0



UltraMix

For well or tap water with moderate organics content.
Handles seasonal variations in water composition

UltraMix Plus

For well or tap water with high organics content.
Handles seasonal variations in water composition
without significant changes of treated water quality.

Purolex Ultramix, Purolex Ultramix Plus - certified in the European Union by the **Department of Environmental Health and Safety NIPH NIH - NRI** and recommended for use in the food industry.

You can find the certificate here:



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UltraMix and UltraMix Plus

multi-component filtering material for softening and removing major contaminants from tap and well water

Technical information

Product specification:

	Ultramix	Ultramix Plus
Working exchange capacity, g-eq / L	0,7 - 0,8	0,6 - 0,7
Size of beads, mm	0,3 - 4,0	0,3 - 4,0
Volume fraction, %		
0,3 - 1,2 mm	80 - 90	80 - 90
2,0 - 4,0 mm	10 - 20	10 - 20
Bulk density, kg/L	0,8	0,8
Humidity at packing, %	55 - 80	55 - 80

Quantitative and qualitative parameters of the material:

Volume Purolex Ultramix, Ultramix Plus, L	25	37	50	62	75	100	150
Capacity, m ³ /h	1,3	1,3	1,8	2,2	2,5	3,3	5,5
Ion exchange capacity, g-eq	15	23	30	37	45	60	90
Salt consumption, kg	2,5	3,8	5,0	6,2	7,5	10,0	15,0
Backwash rate, m ³ /h	0,6	0,6	0,9	1,1	1,2	1,6	2,7
Size of the filter	1035	1054	1252	1354	1465	1665	2162



Calculation of the filtration cycle:

The volume capacity is calculated in a simple way using only in fluent water hardness and the media's ion exchange capacity.

Ultramix - 0.7 g-eq/l

Ultramix Plus - 0.6 g-eq/l

The volume capacity doesn't have to be corrected for the influent iron and manganese levels.

$$\text{Volume Capacity (m}^3\text{)} = \frac{\text{Ultramix volume (L)} \times \text{Ion-exchange capacity (g-eq/L)}}{\text{Influent Hardness (ppm)}}$$

UltraMix and UltraMix Plus is regenerated with the same steps as normal softeners:

1. Backwash
2. Brine rinsing
3. Fast rinsing

If you use potassium chloride for regeneration, increase the salt dose to 150 g/l.



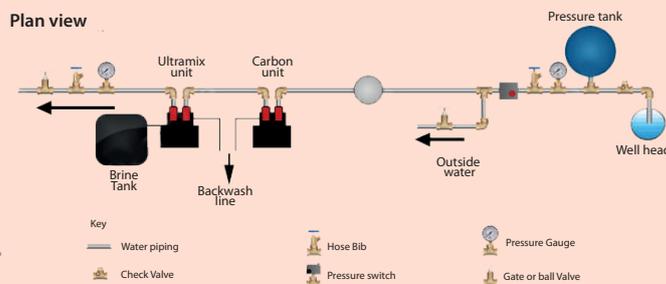
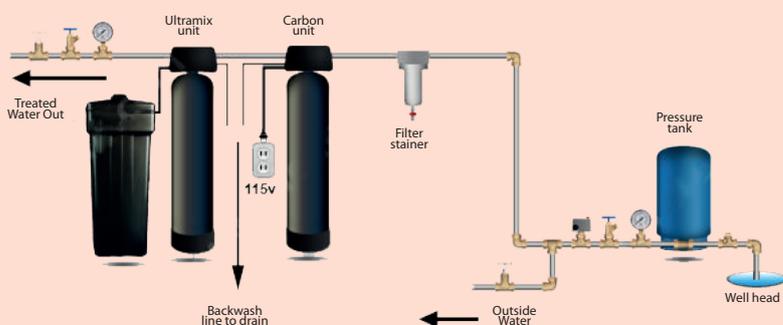
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FAQ

How to install domestic Multimedia Water Softener?



Carbon filter and Water softener shown on a well system with pressure tank. For city water applications, the pre-filter may not be necessary if the water is clean and free of sediment.

Can I regenerate with untreated water?

Regenerating with untreated or raw water will not affect the performance of UltraMix.

Should I use resin cleaners or salt with resin cleaners when I regenerate UltraMix?

Regular softener salt and proper regeneration sequencing will keep UltraMix clean.

Is it possible to use UltraMix when iron content in water is higher than the limit of 15 ppm?

There are UltraMix systems in operation which successfully remove iron in even greater concentrations. However, before doing this you should contact your water treatment specialist with a complete water analysis.

Is UltraMix sensitive to H₂S?

UltraMix is not sensitive to hydrogen sulfide content in well water and its efficiency will not be affected.

Will UltraMix reduce H₂S?

Sometimes UltraMix may slightly reduce the rotten odor of H₂S but it is not recommended as a solution.

Can I use UltraMix if it was accidentally frozen during storage?

Freezing of UltraMix should be avoided as it may cause damage to its components. To avoid freezing, UltraMix should be stored in a dry room protected from sunlight at temperatures of 35–80°F (2–27°C).

If it does freeze, UltraMix should be thawed out slowly at room temperature before using. Do not treat frozen UltraMix with heat or steam.



GranCarbon
FilterIN



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