

IX Resins with Gaussian Distribution

Reliable Quality:

Uniformity coefficient below 1.6 ensures consistent performance across various applications.

Cost-Effective Solution:

Maintains high performance while reducing costs across diverse water treatment needs.

Flexible Applications:

Available in SAC, SBA, and WBA resin types for versatile applications across a broad range of water treatment needs.

Product Name	QuantumPure™ GC-07	QuantumPure™ GC-08	QuantumPure™ GC-70	QuantumPure™ GC-80
Resin Type	SAC			
Matrix	Styrene-divinylbenzene, Gel			
Functional Group	Sulfonic Acid			
Ionic Form	Na ⁺	Na ⁺	Na ⁺	Na ⁺
Total Capacity, min. (eq/ℓ)	1.90	2.00	1.90	2.00
Uniformity Coefficient	≤1.6			
Average Diameter (μm)	300–1200			
Specific Gravity*	1.25	1.25	1.25	1.25
Shipping Weight (g/ℓ)*	800	800	800	800
Max. Operating Temperature	120°C / 248°F			
Operating pH Range	0-14			
Moisture Retention (%)	45–50	43–50	45–50	43–50
Swelling Rate*	9% (Na ⁺ → H ⁺)	8% (Na ⁺ → H ⁺)	8-9% (Na ⁺ → H ⁺)	8-9% (Na ⁺ → H ⁺)

Product Name	QuantumPure™ GA-10	QuantumPure™ GA-20	QuantumPure™ GWC-10L	QuantumPure™ GWA-30
Resin Type	SBA		WAC	WBA
Matrix	Styrene-divinylbenzene, Gel		Acrylic Acid-divinylbenzene, Porous	Styrene-divinylbenzene, Porous
Functional Group	Trimethyl Ammonium (Type 1)	Dimethylethanol Ammonium (Type 2)	Carboxylic Acid	Tertiary Amine
Ionic Form	Cl ⁻	Cl ⁻	H ⁺	Free Base
Total Capacity, min. (eq/ℓ)	1.35	1.30	4.50	1.50
Uniformity Coefficient	≤1.6	≤1.6	≤1.6	≤1.6
Average Diameter (μm)	300–1200	300–1200	425–1200	300–1200
Specific Gravity*	1.11	1.13	1.19	1.05
Shipping Weight (g/ℓ)*	670	700	720	635
Max. Operating Temperature	80°C / 176°F (Cl ⁻); 60°C / 140°F (OH ⁻)	60°C / 140°F (Cl ⁻); 40°C / 104° (OH ⁻)	120°C / 248°F	60°C / 140°F
Operating pH Range	0–14	0–14	4–14	0–9
Moisture Retention (%)	42–48	40–50	45–55	48–58
Swelling Rate*	24% (Cl ⁻ → OH ⁻)	15% (Cl ⁻ → OH ⁻)	10% (H ⁺ → Ca ²⁺)	20% (FB → Cl ⁻)

*The values specified are for reference only and does not guarantee performance.

The product performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry accepted good practices and Seller's written instructions provided in the Seller's Technical Manual may be viewed and downloaded at www.lgwatersolutions.com information and data contained herein are Deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG Chem assumes no liability for results obtained or damages incurred

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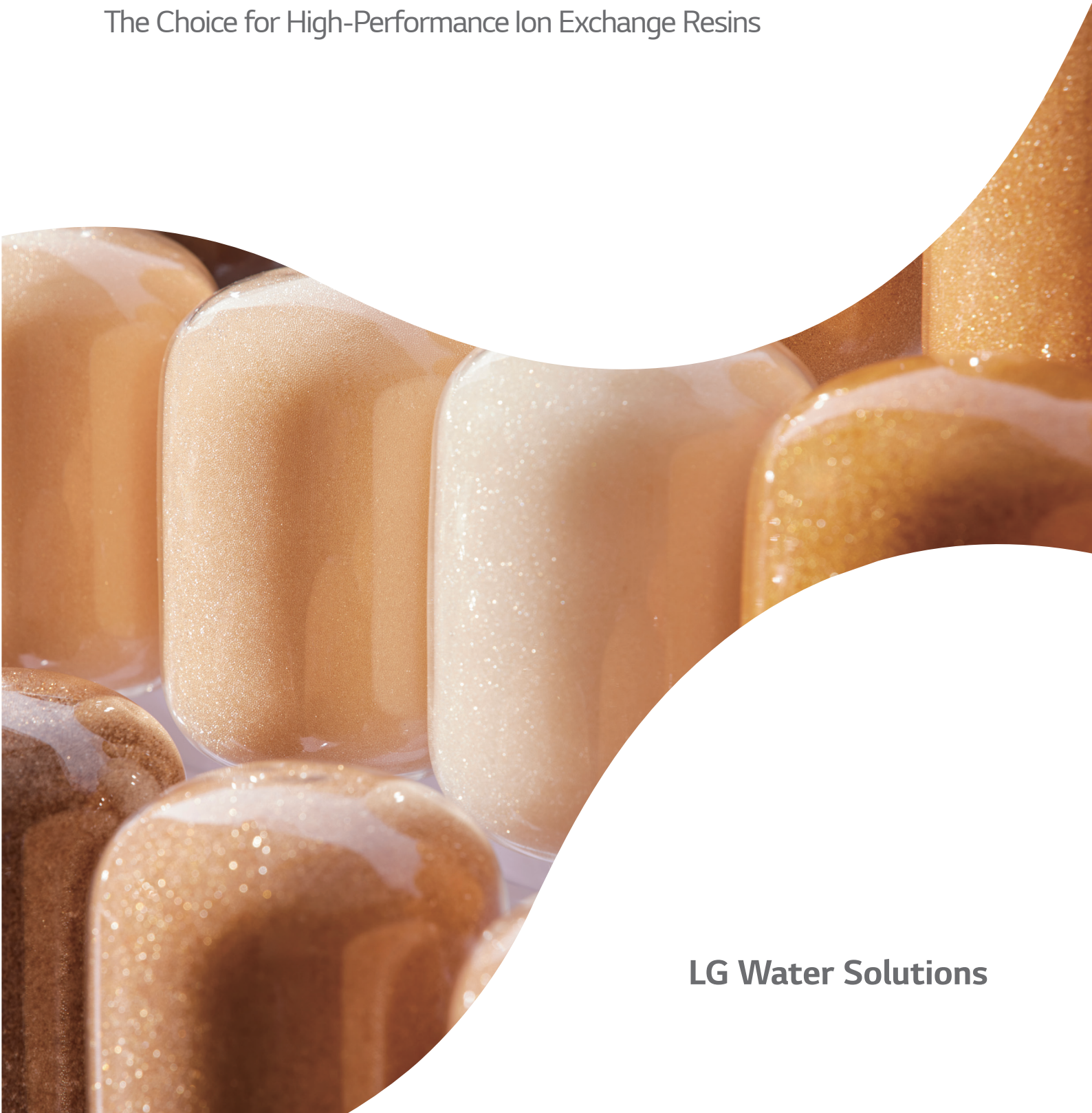
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LG QuantumPure™

The Choice for High-Performance Ion Exchange Resins



LG Water Solutions

QuantumPure™ offers a comprehensive selection of high-performance ion exchange (IX) resins, including SAC, SBA, WAC, WBA, and mixed bed resins in various ionic forms, designed for a wide range of water treatment needs from deionization and softening to selective ion removal.

Manufactured with state-of-the-art processes, QuantumPure™ IX resins ensure consistent quality, excellent chemical resistance, and extended service life, reducing the frequency of replacements and maintenance. As part of the LG Water Solutions portfolio, QuantumPure™ IX resins promise the benefits of a globally trusted brand renowned for innovation and quality.

Premium IX Resins with Uniform Particle Size

Exceptional Uniformity:

Uniformity coefficient below 1.1 (WBA: ≤1.2) for reliable performance every time.

Rigorous Quality Control:

Meets the highest quality control standards to maximize efficiency and durability.

Enhanced System Performance:

Engineered to enhance system performance with superior exchange capacity and extended service cycles, ensuring long-term reliability and reduced operational costs.

Flexible Applications:

Available in SAC, SBA, and WBA resin types, designed for versatile applications across a wide array of water treatment needs.

Product Name	QuantumPure™ UC-08	QuantumPure™ UC-08 H	QuantumPure™ UC-10	QuantumPure™ UC-10 H
Resin Type	SAC			
Matrix	Styrene-divinylbenzene, Gel			
Functional Group	Sulfonic Acid			
Ionic Form	Na ⁺	H ⁺	Na ⁺	H ⁺
Total Capacity, min. (eq/ℓ)	2.00	1.80	2.20	2.00
Uniformity Coefficient	≤1.1			
Average Diameter (μm)	600±50	620±50	650±50	660±50
Specific Gravity*	1.28	1.20	1.32	1.22
Shipping Weight (g/ℓ)*	840	800	830	800
Max. Operating Temperature	120°C / 248°F			
Operating pH Range	0-14			
Moisture Retention (%)	43–49	50–56	38–44	45–51
Swelling Rate*	9% (Na ⁺ → H ⁺)		8% (Na ⁺ → H ⁺)	

Product Name	QuantumPure™ UA-10	QuantumPure™ UA-10 OH	QuantumPure™ UA-12	QuantumPure™ UA-12 OH	QuantumPure™ UA-20	QuantumPure™ UWA-80
Resin Type	SBA					WBA
Matrix	Styrene-divinylbenzene, Gel					Styrene-divinylbenzene, Porous
Functional Group	Trimethyl Ammonium (Type 1)				Dimethylethanol Ammonium (Type 2)	Tertiary Amine
Ionic Form	Cl ⁻	OH ⁻	Cl ⁻	OH ⁻	Cl ⁻	Free Base
Total Capacity, min. (eq/ℓ)	1.35	1.10	1.30	1.00	1.30	1.60
Uniformity Coefficient	≤1.1	≤1.1	≤1.1	≤1.1	≤1.1	≤1.2
Average Diameter (μm)	550±50	590±50	575±50	620±50	575±50	500±100
Specific Gravity*	1.08	1.07	1.08	1.07	1.11	1.04
Shipping Weight (g/ℓ)*	670	655	670	660	690	615
Max. Operating Temperature	80°C / 176°F (Cl ⁻); 60°C / 140°F (OH ⁻)			60°C / 140°F (Cl ⁻); 40°C / 104°F (OH ⁻)		60°C / 140°F
Operating pH Range	0–14	0–14	0–14	0–14	0–14	0–9
Moisture Retention (%)	43–49	59–65	49–55	62–70	45–51	55–60
Swelling Rate*	23% (Cl ⁻ → OH ⁻)		24% (Cl ⁻ → OH ⁻)		14% (Cl ⁻ → OH ⁻)	23% (FB → Cl ⁻)

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IX Resins for Mixed Bed

Ready-to-Use:

Mixed resins engineered for efficient, convenient production of high-purity water.

Flexible Resin Size Options:

Available in both uniform particle size and Gaussian distribution types to meet diverse treatment needs.

Optimized for Ultrapure Water Applications:

UPS type optimized as a final polisher in ultrapure water applications, ensuring the highest levels of water purity.

Product Name		QuantumPure™ UPW-100		QuantumPure™ UPW-200		QuantumPure™ UPW-300		QuantumPure™ UPW-400	
Matrix		Styrene-divinylbenzene, Gel							
Functional Group		Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)
Ionic Form		H ⁺	OH ⁻	H ⁺	OH ⁻	H ⁺	OH ⁻	H ⁺	OH ⁻
Total Capacity, min. (eq/ℓ)		1.9	1.0	1.9	1.0	1.9	1.0	1.9	1.0
Average Diameter (μm)		620±50	620±50	620±50	620±50	620±50	620±50	620±50	620±50
Uniformity Coefficient		≤1.1	≤1.1	≤1.1	≤1.1	≤1.1	≤1.1	≤1.1	≤1.1
Ionic Conversion (%)	H ⁺	99.0 Min	-	99.0 Min	-	99.0 Min	-	99.0 Min	-
	OH ⁻	-	95.0 Min	-	95.0 Min	-	95.0 Min	-	95.0 Min
	Cl ⁻	-	1.0 Max	-	1.0 Max	-	1.0 Max	-	1.0 Max
Mixed Ratio		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion	
Inlet Condition	Specific Flow Rate	SV30		SV30		SV30		SV30	
	Resistivity	>17.5MΩ·cm		>17.5MΩ·cm		>17.5MΩ·cm		>17.5MΩ·cm	
	TOC	-		<2 ppb		<2 ppb		<2 ppb	
Outlet Condition	Resistivity	Guaranteed ≥18.0 MΩ·cm(in 30 min.)		Guaranteed ≥18.1 MΩ·cm(in 30 min.)		Guaranteed ≥18.2 MΩ·cm(in 30 min.)		Guaranteed ≥18.2 MΩ·cm(in 30 min.)	
	ΔTOC	-		<5 ppb (in 120min.)		<1 ppb(in 180min.)		<1 ppb (in 180min.)	

Product Name		QuantumPure™ GMB-200		QuantumPure™ GMB-210		QuantumPure™ GMB-300	
Matrix		Styrene-divinylbenzene, Gel					
Functional Group		Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)	Sulfonic Acid	Type 1 (Trimethylammonium)
Ionic Form		H ⁺	OH ⁻	H ⁺	OH ⁻	H ⁺	OH ⁻
Average Diameter (μm)		300–1,200	300–1,200	300–1,200	300–1,200	300–1,200	300–1,200
Uniformity Coefficient		≤1.6	≤1.6	≤1.6	≤1.6	≤1.6	≤1.6
Ionic Conversion (%)	H ⁺	99.0 Min	-	99.0 Min	-	99.0 Min	-
	OH ⁻	-	90.0 Min	-	95.0 Min	-	95.0 Min
	Cl ⁻	-	1.0 Max	-	1.0 Max	-	1.0 Max
Mixed Ratio		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion		1:1 (by equivalents) Cation : Anion	
Inlet Condition	Specific Flow Rate	SV36		SV36		SV36	
	Conductivity	150 μs/cm		150 μs/cm		10 μs/cm	
Outlet Condition	Resistivity	Guaranteed: ≥10.0 MΩ·cm (in 10min.)		Guaranteed: ≥10.0 MΩ·cm (in 10min.)		Guaranteed: ≥15.0 MΩ·cm (in 10min.)	
		Actual: ≥15.0 MΩ·cm (in 10min.)		Actual: ≥15.0 MΩ·cm (in 10min.)		Actual: ≥17.0 MΩ·cm (in 10min.)	

Product Name		QuantumPure™ IR-30	QuantumPure™ IR-70
Resin Type	Inert		Inert
Matrix	Methyl Methacrylate-divinylbenzene		Polyethylene
Average Diameter (μm)	700–900		≥1200
Specific Gravity*	1.13–1.15		0.85–0.95
Shipping Weight (g/ℓ)*	670–720		500–600
Max. Operating Temperature	100°C / 212°F		90°C / 194°F
Operating pH Range	0–14		0–14
Application	Boundary layer in a mixed bed system for resin layer separation.		Top layer in packed bed system for resin leakage prevention and regenerant chemicals dispersion.

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